

**LEDA Pre-Qualified Fixtures and Type C LED External Driver
Linear Lamp Style Retrofit Kits**

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The qualified LED products in this document are divided into two individual Qualified Product Lists (QPLs). The first, titled "LEDA Pre-Qualified Fixtures and Type C LED External Driver Linear Lamp Style Retrofit Kits" contains Lowbay, Highbay, Direct Linear Ambient, Interior Directional, Outdoor fixtures that have 0-10v continuous dimming for compatibility with networked controls. Type C LED External Driver Linear Lamp Style Retrofit Kits have 0-10 volt continuous dimming that can dim down to less than 10%. The LED fixtures are DLC Premium certified and Type C LED External Driver Linear Lamp Style Retrofit Kits are DLC Standard certified and you can assume these fixtures will automatically qualify for LEDA incentives if program requirements are followed. The second list, titled "LED Products that Require Additional Information" contains fixtures which are only DLC "Standard" certified but have a high likelihood of being DLC Premium certified once testing information is received from the manufacturer. In order to speed LED market transformation, if you bring in a project that can save over 20 kW, provide lighting and controls scope, LEDA can qualify the LEDs if the manufacturer has testing information available and they intend to go through the DLC certification process. If time is a significant factor in your project, select products which are LEDA Pre-Qualified". The QPLs only include "parent" products, but any child product that also meets DLC Premium specifications is eligible for incentives. If your specific fixture does not appear on this QPL, or if you believe it may be a child product, please contact the LEDA Program Manager for eligibility verification. For more information visit <http://ledaccelerator.com> and download the LEDA Product Qualification Requirements document for instructions on how to have your product approved for the LEDA program.

- Additional Notes:**
1. Energy Star Certified fixtures (Accent Light Line-voltage, Downlights) will need to have their warranties validated to ensure they align with LEDA product requirements
 2. Individual LED diodes must not be visible to be eligible for LEDA incentives (i.e. a lens is required)

Manufacturer	Brand	Model Number	LED Type	Light Output (Lumens)	Efficacy (lumens per Watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016 Tier Level (LEDA)
ABBlighting	ABBlighting	FL26501	Architectural Flood and Spot Luminaires									Continuous (Can dim down to ≤ 10% (W))	Tier II
ABBlighting	ABBlighting	FL38501	Architectural Flood and Spot Luminaires	2706	103.7	26.1	4959	74.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
ABBlighting	ABBlighting	FL70501	Architectural Flood and Spot Luminaires	4264.8	104.9	40.67	5037	74.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
ABBlighting	ABBlighting	FL100501	Architectural Flood and Spot Luminaires	8749	108	80.98	4956	74.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
ABBlighting	ABBlighting	UH8150501-82	High-Bay Luminaires for Commercial and Industrial Buildings	11046	110.5	99.96	5043	76.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
ABBlighting	ABBlighting	WL38501	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	17217	120.2	143.22	5142	82	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
ABBlighting	ABBlighting	WL70501	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	4293.5	106	40.51	4845	73.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
ABBlighting	ABBlighting	WL52501	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	8869.8	109.9	80.69	4989	75.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Acuity Brands Lighting	Holophane	SVLED2 PNL PK3 MVOLT 50K XXX XXXX XX XX XXXXX	Architectural Flood and Spot Luminaires	5526.4	109.1	50.92	4956	75.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Acuity Brands Lighting	Lithonia Lighting	LBL4-40L-XXX-E21-LP850-XXXXXX-XXXXX	Direct Linear Ambient Luminaires	12330	115.05	107.17	4742	71.41	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Acuity Brands Lighting	Holophane	PHZL 60L 30K X X X 70CRI WA	High-Bay Luminaires for Commercial and Industrial Buildings	4606	118.1	39	5086	82.88	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
AGC Lighting Co., Ltd	AGC Lighting	HB01-300/T-3000-90	High-Bay Luminaires for Commercial and Industrial Buildings	57550	113.32	507.81	3054	71.89	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
AGC Lighting Co., Ltd	AGC Lighting	HB01-200/GT-5000-90	High-Bay Luminaires for Commercial and Industrial Buildings	38682	126.54	305.7	3014	72.3	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
AGC Lighting Co., Ltd	AGC Lighting	HB01-200/GT-3000-90	High-Bay Luminaires for Commercial and Industrial Buildings	24670	126.45	195.1	5179	74.9	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
AGC Lighting Co., Ltd	AGC Lighting	HB01-100/GT-3000-90	High-Bay Luminaires for Commercial and Industrial Buildings	23412	118.96	196.8	3113	73.8	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
AGC Lighting Co., Ltd	AGC Lighting	HB01-120/GT-3000-90	High-Bay Luminaires for Commercial and Industrial Buildings	11448	114.96	99.58	3087	74	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
AGC Lighting Co., Ltd	AGC Lighting	HB01-50/T-5000-90	Low-Bay Luminaires for Commercial and Industrial Buildings	14440	114.06	126.6	3057	73.7	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Aleo Lighting, Inc.	Aleo	LLS-4VH-40/840	Direct Linear Ambient Luminaires	5981	114.21	52.37	5213	75.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Aleo Lighting, Inc.	Aleo	LLS-8H/830	Direct Linear Ambient Luminaires	4336.3	113.2	38.3	4177	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Aleo Lighting, Inc.	Aleo	LLS-4H/850	Direct Linear Ambient Luminaires	7546	112.13	67.3	3146	83.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Aleo Lighting, Inc.	Aleo	LLS-4H/830	Direct Linear Ambient Luminaires	3778.232	116.504	32.43	5196	83.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Aleo Lighting, Inc.	Aleo	LLS-4L/850	Direct Linear Ambient Luminaires	3582.1	110.52	32.41	3133	82.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Aleo Lighting, Inc.	Aleo	LLS-4L/850	Direct Linear Ambient Luminaires	2556.94	114.97	22.24	5214	83.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Aleo Lighting, Inc.	Aleo	LLS-8L/830	Direct Linear Ambient Luminaires	4435.024	112.85	39.3	3088	83.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Aleo Lighting, Inc.	Aleo	LSR-4H/850	Direct Linear Ambient Luminaires	3655.32	112.58	32.47	5214	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Aleo Lighting, Inc.	Aleo	LSR-4L/850	Direct Linear Ambient Luminaires	2473.12	111.15	22.25	5228	83.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Aleo Lighting, Inc.	Aleo	LVE-4H/830	Direct Linear Ambient Luminaires	6837.4	123.99	55.14	3083	82	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Aleo Lighting, Inc.	Aleo	LVE-4L/830	Direct Linear Ambient Luminaires	4670.9	119.24	39.17	3094	82	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Aleo Lighting, Inc.	Aleo	LWE-4L/830	Direct Linear Ambient Luminaires	4512.1	115.07	39.21	3107	81.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Aleo Lighting, Inc.	Aleo	SLB2-110/840/F	High-Bay Luminaires for Commercial and Industrial Buildings	12282	115.2	106.6	4092	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Aleo Lighting, Inc.	Aleo	SLB2-160/840/F	High-Bay Luminaires for Commercial and Industrial Buildings	18520	116.7	158.7	4121	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Aleo Lighting, Inc.	Aleo	SLB4-220/840/F	High-Bay Luminaires for Commercial and Industrial Buildings	25161	117.1	214.9	4197	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Aleo Lighting, Inc.	Aleo	SLB4-320/840/F	High-Bay Luminaires for Commercial and Industrial Buildings	37301	116.8	319.2	4189	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Aleo Lighting, Inc.	Aleo	LLS-8H/835	Low-Bay Luminaires for Commercial and Industrial Buildings	7573.9	113.21	66.9	3492	83.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Aleo Lighting, Inc.	Aleo	LLS-8L/835	Low-Bay Luminaires for Commercial and Industrial Buildings	4655.01	116.38	40	3485	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Alphalite, Inc.	Alphalite	ILL-4H/850	Direct Linear Ambient Luminaires	3778.232	116.504	32.43	5196	83.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Alphalite, Inc.	Alphalite	ILL-4H/830	Direct Linear Ambient Luminaires	3582.1	110.52	32.41	3133	82.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Alphalite, Inc.	Alphalite	ILL-8H/830	Direct Linear Ambient Luminaires	7546	112.13	67.3	3146	83.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Alphalite, Inc.	Alphalite	ILL-4L/850	Direct Linear Ambient Luminaires	2556.94	114.97	22.24	5214	83.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Alphalite, Inc.	Alphalite	ILL-8L/830	Direct Linear Ambient Luminaires	4435.024	112.85	39.3	3088	83.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Alphalite, Inc.	Alphalite	RXL-4H/850	Direct Linear Ambient Luminaires	3655.32	112.58	32.47	5214	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Alphalite, Inc.	Alphalite	RXL-4L/850	Direct Linear Ambient Luminaires	2473.12	111.15	22.25	5228	83.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II

Manufacturer	Brand	Model Number	LED Type	Light Output (lumens)	Efficacy (lumens per watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016 Tier Level (LEDA)
Alphalite, Inc.	Alphalite	EHB2-13/840-FLN	High-Bay Luminares for Commercial and Industrial Buildings	12282	115.2	106.6	4092	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Alphalite, Inc.	Alphalite	EHB2-20/840-FLN	High-Bay Luminares for Commercial and Industrial Buildings	18520	116.7	158.7	4121	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Alphalite, Inc.	Alphalite	EHB4-26/840-FLN	High-Bay Luminares for Commercial and Industrial Buildings	25161	117.1	214.9	4197	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Alphalite, Inc.	Alphalite	EHB4-40/840-FLN	High-Bay Luminares for Commercial and Industrial Buildings	37301	116.8	319.2	4189	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Alphalite, Inc.	Alphalite	ILL-8H/835	Low-Bay Luminares for Commercial and Industrial Buildings	7573.9	113.21	66.9	3492	83.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Alphalite, Inc.	Alphalite	ILL-8L/835	Low-Bay Luminares for Commercial and Industrial Buildings	4655.01	116.38	40	3485	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Ampco Lighting Ltd	Ampco	FCO-1340-S-MVD	Outdoor Full-Cutoff Wall-Mounted Area Luminares	4374.61	113.01	38.71	4965	76.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Ampco Lighting Ltd	Ampco	FCO-1860-S-MVD	Outdoor Full-Cutoff Wall-Mounted Area Luminares	6979.48	112.43	62.08	4974	75.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Arani Systems Corp.	Arani	BGU10-30K-V5	PAR16	500	71.4	7	3000	92	5	40	62	Dimmable	Tier I
Arani Systems Corp.	Arani	BPAR16-30K-V5	PAR16	500	71.4	7	3000	92	5	40	62	Dimmable	Tier I
Ascent Battery Supply	Duracell	LED113888	PAR30	800	80	10	3000	91	5	40	52	Dimmable	Tier I
Ascent Battery Supply	Duracell	LED113908	PAR30	800	80	10	4000	92	5	40	52	Dimmable	Tier I
Ascent Battery Supply	Duracell	LED113998	PAR38	1200	70.6	17	3000	92	5	25	53	Dimmable	Tier I
Ascent Battery Supply	Duracell	LED114008	PAR38	1200	70.6	17	3000	92	5	40	53	Dimmable	Tier I
Ascent Battery Supply	Duracell	LED114018	PAR38	1200	70.6	17	4000	93	5	25	65	Dimmable	Tier I
Ascent Battery Supply	Duracell	LED114028	PAR38	1200	70.6	17	4000	93	5	40	65	Dimmable	Tier I
Ascent Battery Supply	Duracell	LED114048	PAR38	1200	70.6	17	5000	92	5	40	62	Dimmable	Tier I
ASG ENERGY LLC	ASG Energy	ASG-VERSA-T8-EX-16W-4F-FR-3000K	2-lamp External driver Lamp-style retrofit kits (UL Type C)	1852	113.69	16.29	2939	82	5			Continuous (Can dim down to ≤ 10% (W))	Tier I
Atlas Lighting Products	Atlas Lighting Products, Inc.	ILH210LED4	High-Bay Luminares for Commercial and Industrial Buildings	27500	134.76	204.06	4529	82.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Atlas Lighting Products	Atlas Lighting Products, Inc.	ILH104LED4S	High-Bay Luminares for Commercial and Industrial Buildings	13640	134.77	101.21	4489	82.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Atlas Lighting Products	Atlas Lighting Products, Inc.	ILH104LED4LS	High-Bay Luminares for Commercial and Industrial Buildings	12330	122.38	100.75	4481	82.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Atlas Lighting Products	Atlas Lighting Products, Inc.	ILH210LED4L	High-Bay Luminares for Commercial and Industrial Buildings	25660	126.16	203.4	4523	82.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Atlas Lighting Products	Atlas Lighting Products	ILW98LED4WD	High-Bay Luminares for Commercial and Industrial Buildings	12380	131.83	93.91	4603	83.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Atlas Lighting Products	Atlas Lighting Products	ILW130LED4WD	High-Bay Luminares for Commercial and Industrial Buildings	15370	121.78	126.21	4579	83.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Atlas Lighting Products	Atlas Lighting Products, Inc.®	WLCFC27LED	Outdoor Full-Cutoff Wall-Mounted Area Luminares	3411	128.87	26.47	4556	81.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Atlas Lighting Products	Atlas Lighting Products	WPS27LED	Outdoor Full-Cutoff Wall-Mounted Area Luminares	3255	123.5	26.35	4479	82.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Atlas Lighting Products	Atlas Lighting Products	WPS13LED	Outdoor Full-Cutoff Wall-Mounted Area Luminares	1728	122	14.17	4448	82.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Atlas Lighting Products	Atlas Lighting Products	WLMFC43LED	Outdoor Full-Cutoff Wall-Mounted Area Luminares	5366	130.26	41.2	4602	81.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Atlas Lighting Products	Atlas Lighting Products	WPM43LED	Outdoor Full-Cutoff Wall-Mounted Area Luminares	5187	128.6	40.34	4499	82.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Atlas Lighting Products	Atlas Lighting Products	SLP1675LEDTS4KU [All Colors, All Options]	Outdoor Full-Cutoff Wall-Mounted Area Luminares	8181	114.3	71.55	4462	71.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Atlas Lighting Products	Atlas Lighting Products, Inc.®	WLMFC64LED	Outdoor Full-Cutoff Wall-Mounted Area Luminares	8131	131.52	61.8	4560	81.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Atlas Lighting Products	Atlas Lighting Products	WPL64LED	Outdoor Full-Cutoff Wall-Mounted Area Luminares	8100	129.8	62.4	4499	82.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Atlas Lighting Products	Atlas Lighting Products	WPL86LED	Outdoor Full-Cutoff Wall-Mounted Area Luminares	10841	126.5	85.72	4510	82.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Atlas Lighting Products	Atlas Lighting Products	WPXL102LED	Outdoor Full-Cutoff Wall-Mounted Area Luminares	13479	134.2	100.5	4546	83.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Atlas Lighting Products	Atlas Lighting Products	SLP1675LEDT3[L or R]4KU [All Colors, All Options]	Outdoor Pole/Arm-Mounted Area and Roadway Luminares	8119	113.3	71.69	4420	71.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Atlas Lighting Products	Atlas Lighting Products, Inc.	SLP1675LEDDSC[L or R]4KU [All Colors, All Options]	Outdoor Pole/Arm-Mounted Area and Roadway Luminares	8072	112.4	71.78	4488	71.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Atlas Lighting Products	Atlas Lighting Products, Inc.	SLP1675LEDDSC4KU [All Colors, All Options]	Outdoor Pole/Arm-Mounted Area and Roadway Luminares	8053	112.2	71.79	4466	71.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Broadca, Inc.	Broadca	1830909	A19	800	88.2	9.1	3000	93	5		64	Dimmable	Tier I
BTS LED, Inc.	BTS LED	BT8E16D474F 4000K	2-lamp External driver Lamp-style retrofit kits (UL Type C)	1936.5	129.01	15.01	4224	83.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier I
Bulb Star	Bulb Star	BCA9W/27K	A19	800	80.8	9.9	2700	93	5		59	Dimmable	Tier I
CABA TECH LLC	CABATECH, LLC	CHB-30000L-40K-X-X-D	High-Bay Luminares for Commercial and Industrial Buildings	30819	124.2	248	4280	86	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
CABA TECH LLC	CABATECH, LLC	CHB-18000L-40K-X-X-D	High-Bay Luminares for Commercial and Industrial Buildings	18903	125.5	151	4270	86	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
CABA TECH LLC	CABATECH, LLC	CHB-9000L-40K-X-X-D	Low-Bay Luminares for Commercial and Industrial Buildings	8529	124.9	68.3	4420	86	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
CABA TECH LLC	CABATECH, LLC	CHB-9000L-50K-X-X-N	Low-Bay Luminares for Commercial and Industrial Buildings	8845	126.2	70.1	5260	83	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Cathelle, Inc.	Electrinar	72230	PAR30L	800	80	10	3000	91	5	40	52	Dimmable	Tier I
City Electric Supply DBA Fusion Lamps	Fusion Lamps	FLED7PAR20NFLD840/G4	PAR20	714	71.4	7	4000	92	5	25	60	Dimmable	Tier I
City Electric Supply DBA Fusion Lamps	Fusion Lamps	FLED7PAR20NFLD850/G4	PAR20	75	75	7	5000	91	5	25	55	Dimmable	Tier I
City Electric Supply DBA Fusion Lamps	Fusion Lamps	FLED10PAR30FLD827/G4	PAR30L	800	80	10	2700	91	5	40	50	Dimmable	Tier I
City Electric Supply DBA Fusion Lamps	Fusion Lamps	FLED10PAR30FLD830/G4	PAR30L	800	80	10	3000	91	5	40	52	Dimmable	Tier I
City Electric Supply DBA Fusion Lamps	Fusion Lamps	FLED10PAR30FLD840/G4	PAR30L	82	82	10	4000	92	5	40	52	Dimmable	Tier I
City Electric Supply DBA Fusion Lamps	Fusion Lamps	FLED10PAR30FLD850/G4	PAR30L	81.5	10.4	5000	91	5	40	55	Dimmable	Tier I	
City Electric Supply DBA Fusion Lamps	Fusion Lamps	FLED10PAR30NFL827/G4	PAR30L	75	75	10	2700	91	5	25	50	Dimmable	Tier I
City Electric Supply DBA Fusion Lamps	Fusion Lamps	FLED10PAR30NFL830/G4	PAR30L	80	80	10	3000	91	5	25	52	Dimmable	Tier I
City Electric Supply DBA Fusion Lamps	Fusion Lamps	FLED10PAR30NFL840/G4	PAR30L	82	82	10	4000	92	5	25	52	Dimmable	Tier I
City Electric Supply DBA Fusion Lamps	Fusion Lamps	FLED10PAR30NFL850/G4	PAR30L	81.5	10.4	5000	91	5	25	55	Dimmable	Tier I	
City Electric Supply DBA Fusion Lamps	Fusion Lamps	FLED15PAR38FLD850/G4	PAR38	1050	70	15	5000	91	5	40	57	Dimmable	Tier I
City Electric Supply DBA Fusion Lamps	Fusion Lamps	FLED17PAR38FLD830/G4	PAR38		70.6	17	3000	92	5	40	53	Dimmable	Tier I
City Electric Supply DBA Fusion Lamps	Fusion Lamps	FLED17PAR38FLD840/G4	PAR38		71.8	17	4000	93	5	40	65	Dimmable	Tier I
City Electric Supply DBA Fusion Lamps	Fusion Lamps	FLED17PAR38FLD850/G4	PAR38		73.5	17	5000	92	5	40	62	Dimmable	Tier I
Core Products Canada Ltd.	Core	PAR30-G5-114030	PAR30L	800	72.7	11	3000	93	5	40	65	Dimmable	Tier I
Core Products Canada Ltd.	Core	PAR30-G5-114040	PAR30L	800	72.7	11	4000	95	5	40	82	Dimmable	Tier I
Core Products Canada Ltd.	Core	PAR38-G5-174030	PAR38	1200	70.6	17	3000	92	5	40	60	Dimmable	Tier I
Core Products Canada Ltd.	Core	PAR38-G5-174040	PAR38	1200	70.6	17	4000	95	5	40	82	Dimmable	Tier I

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Cree, Inc.	Cree CPY Series	CPY250-A-xx-D-xx-xx-40K-xxx	High-Bay Luminares for Commercial and Industrial Buildings	17483	116.97	149.47	3939	71	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Cree, Inc.	Cree MR16 True White Lamp	MR16-50-30K-250	MR16	589	66.3	8.9	3000	92	3	25	57	Dimmable	Tier I
Cree, Inc.	Cree LED Bulb	BPAR30S-0803040C-12DE26-1C200	PAR30	850	81	10.5	3000	93	5	40	64	Dimmable	Tier I
Cree, Inc.	Cree LED Bulb	BPAR30S-0803025C-12DE26-1C100	PAR30	850	81	10.5	3000	93	5	25	63	Dimmable	Tier I
Cree, Inc.	Cree LED Bulb	BPAR30S-0803025C-12DE26-1C200	PAR30	850	81	10.5	3000	93	5	25	63	Dimmable	Tier I
Cree, Inc.	Cree LED Bulb	BPAR30S-0803040C-12DE26-1C100	PAR30	850	81	10.5	3000	93	5	40	64	Dimmable	Tier I
Cree, Inc.	Cree LED Bulb	BPAR30L-0803025C-12DE26-1C100	PAR30L	850	81	10.5	3000	93	5	25	63	Dimmable	Tier I
Cree, Inc.	Cree LED Bulb	BPAR30L-0803025C-12DE26-1C200	PAR30L	850	81	10.5	3000	93	5	25	63	Dimmable	Tier I
Cree, Inc.	Cree LED Bulb	BPAR30L-0803040C-12DE26-1C100	PAR30L	841	80.1	10.5	3000	93	5	40	64	Dimmable	Tier I
Cree, Inc.	Cree LED Bulb	BPAR30L-0803040C-12DE26-1C200	PAR30L	841	80.1	10.5	3000	93	5	40	64	Dimmable	Tier I
DAEDONG CO., LTD.	Daedong	D3HL120-5080P-E2	High-Bay Luminares for Commercial and Industrial Buildings	17010.02	140	121.9	5170	83	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Dauer Manufacturing	DauerLED	LED-MR16-8L90-WW-40	MR16	500	71.4	7	3000	94	5	40	71	Dimmable	Tier I
Dauer Manufacturing	DauerLED	LED-GU10-8L90-WW-40A*	PAR16		77.6	7	3000	93	5	40	62	Dimmable	Tier I
Dauer Manufacturing	DauerLED	LED-GU10-8L90-27K-40A*	PAR16		76.2	7	2700	90	5	40	48	Dimmable	Tier I
DECO Lighting	DECO LIGHTING	DCH-LED-4-35-50-UNV	Direct Linear Ambient Luminares	3655.32	112.58	32.47	5214	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
DECO Lighting	DECO LIGHTING	DCH-LED-4-25-50-UNV	Direct Linear Ambient Luminares	2473.12	111.15	22.25	5228	83.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
DECO Lighting	DECO LIGHTING	DACH-LED-8-35-30-UNV	Direct Linear Ambient Luminares	4435.024	112.85	39.3	3088	83.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
DECO Lighting	DECO LIGHTING	DACH-LED-4-25-50-UNV	Direct Linear Ambient Luminares	2556.94	114.97	22.24	5214	83.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
DECO Lighting	DECO LIGHTING	DACH-LED-8-35-30-UNV	Direct Linear Ambient Luminares	7546	112.13	67.3	3146	83.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
DECO Lighting	DECO Lighting	VINCI-LED-10-50-UNV-XX-XXX [Straight Down Only]	Outdoor Full-Cutoff Wall-Mounted Area Luminares	1397	103.3	13.52	4931	81.6	10			Continuous (Can dim down to ≤ 10% (W))	Tier II
Delviro	Delviro Energy	TITAN HB-480-5K-H-CL-XX-X-XXX-X	High-Bay Luminares for Commercial and Industrial Buildings	55292	113.4	487.52	5195	85.01	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Delviro	Delviro Energy	TITAN HB-480-5K-U-CL-XX-X-XXX-X	High-Bay Luminares for Commercial and Industrial Buildings	56847	112.1	507.28	5186	85.01	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Delviro	AIR Flex	AIRFLEX4-200-3K-H-NL-WH-V-X-N	High-Bay Luminares for Commercial and Industrial Buildings	22984	121.3	189.53	3143	83.22	10			Continuous (Can dim down to ≤ 10% (W))	Tier II
Delviro	AIR Flex	AIRFLEX4-100-3K-H-NL-WH-V-X-N	High-Bay Luminares for Commercial and Industrial Buildings	11658	123.8	94.2	3145	83.36	10			Continuous (Can dim down to ≤ 10% (W))	Tier II
Delviro	AIR Flex	AIRFLEX2-100-3K-U-NL-WH-V-X-N	High-Bay Luminares for Commercial and Industrial Buildings	11181	111.9	99.94	3078	83.71	10			Continuous (Can dim down to ≤ 10% (W))	Tier II
Digital Lumens	Digital Lumens	LLE-3-ST-D-850	Direct Linear Ambient Luminares	3469	114.03	30.428	5125	81.49	10			Continuous (Can dim down to ≤ 10% (W))	Tier II
Digital Lumens	Digital Lumens	LLE-6-ST-D-840	Direct Linear Ambient Luminares	6506	111.84	58.673	3945	83.41	10			Continuous (Can dim down to ≤ 10% (W))	Tier II
Digital Lumens	Digital Lumens	DLE-12-ST-N-750	High-Bay Luminares for Commercial and Industrial Buildings	14060	115.97	121.23	4968	70.87	10			Continuous (Can dim down to ≤ 10% (W))	Tier II
Digital Lumens	Digital Lumens	DLE-18-ST-N-750	High-Bay Luminares for Commercial and Industrial Buildings	21140	115.97	182.28	4983	70.85	10			Continuous (Can dim down to ≤ 10% (W))	Tier II
Digital Lumens	Digital Lumens	DLE-24-ST-N-750	High-Bay Luminares for Commercial and Industrial Buildings	27780	115.11	241.32	4990	70.24	10			Continuous (Can dim down to ≤ 10% (W))	Tier II
Digital Lumens	Digital Lumens	LLE-6-ST-D-840	Low-Bay Luminares for Commercial and Industrial Buildings	6506	111.84	58.673	3945	83.41	10			Continuous (Can dim down to ≤ 10% (W))	Tier II
Digital Lumens	Digital Lumens	LLE-3-ST-D-840	Stairwell and Passageway Luminares	3181.12	102.99	30.886	3952	82.75	10			Continuous (Can dim down to ≤ 10% (W))	Tier II
Digital Lumens	Digital Lumens	LLE-6-ST-D-840	Stairwell and Passageway Luminares	6506	111.84	58.673	3945	83.41	10			Continuous (Can dim down to ≤ 10% (W))	Tier II
Dongbu Lightec	LumiDas-LML	LML45-UM-L4-YF	Direct Linear Ambient Luminares	5588	122.8	45.5	3539	83	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Dongbu Lightec	LumiDas-LML	LML36-UM-L4-YF	Direct Linear Ambient Luminares	4131	117.2	35.2	3564	85.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
DRK Enterprises	MyLEDLightingGuide	MLLG-AG-LED-HB-300-3-90-D	High-Bay Luminares for Commercial and Industrial Buildings	38682	126.54	305.7	3014	72.3	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
DRK Enterprises	MyLEDLightingGuide	MLLG-LED-RETRO2-120-40-D	Retrofit Kits for High-Bay Luminares for Commercial and Industrial Buildings	16648	143.59	115.9	4152	74.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
DRK Enterprises	MyLEDLightingGuide	MLLG-LED-RETRO2-30-40-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminares	3766.8	123.33	30.54	4136	74.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
DRK Enterprises	MyLEDLightingGuide	MLLG-LED-RETRO2-45-40-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminares	5770.4	125.43	46	4146	74.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
DRK Enterprises	MyLEDLightingGuide	MLLG-LED-RETRO2-60-40-HV-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminares	7888	133.84	58.94	4152	74.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
DRK Enterprises	MyLEDLightingGuide	MLLG-LED-RETRO2-60-40-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminares	8035.9	128.24	62.66	4149	74.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
DRK Enterprises	MyLEDLightingGuide	MLLG-LED-RETRO2-45-40-HV-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminares	5862.5	123.54	47.46	4136	74.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
DRK Enterprises	MyLEDLightingGuide	MLLG-LED-RETRO2-350-40-HV-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminares	42639	118.3	358.2	4231	75.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
DRK Enterprises	MyLEDLightingGuide	MLLG-LED-RETRO2-320-40-HV-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminares	39314	121.15	324.5	4154	75.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
DRK Enterprises	MyLEDLightingGuide	MLLG-LED-RETRO2-280-40-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminares	34857	122.24	285.1	4163	75.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
DRK Enterprises	MyLEDLightingGuide	MLLG-LED-RETRO2-200-40-HV-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminares	26028	128.41	202.7	4156	74.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
DRK Enterprises	MyLEDLightingGuide	MLLG-LED-RETRO2-280-40-HV-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminares	33832	120.52	280.7	4259	75	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
DRK Enterprises	MyLEDLightingGuide	MLLG-LED-RETRO2-200-40-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminares	26376	129.17	204.2	4141	74.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
DRK Enterprises	MyLEDLightingGuide	MLLG-LED-RETRO2-150-40-HV-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminares	19514	129.34	150.9	4136	74.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
DRK Enterprises	MyLEDLightingGuide	MLLG-LED-RETRO2-105-40-HV-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminares	14028	134.51	104.3	4136	74.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
DRK Enterprises	MyLEDLightingGuide	MLLG-LED-RETRO2-75-40-HV-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminares	9871.6	132.79	74.34	4141	74.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
DRK Enterprises	MyLEDLightingGuide	MLLG-LED-RETRO2-320-40-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminares	40053	127.07	315.2	4152	75.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
DRK Enterprises	MyLEDLightingGuide	MLLG-LED-RETRO2-120-40-HV-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminares	15606	132.39	117.9	4139	74.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
DRK Enterprises	MyLEDLightingGuide	MLLG-LED-RETRO2-105-40-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminares	14154	134.8	105	4159	74.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II

Manufacturer	Brand	Model Number	LED Type	Light Output (Lumens)	Efficacy (lumens per Watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016 Tier Level (LEDA)
DRK Enterprises	MyLEDLightingGuide	MLLG-LED-RETRO2-350-40-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	41649	116.15	358.6	4168	75.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
DRK Enterprises	MyLEDLightingGuide	MLLG-LED-RETRO2-150-40-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	20680	127.7	161.9	4154	74.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
DRK Enterprises	MyLEDLightingGuide	MLLG-LED-RETRO2-120-40-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	15883	136.82	116.1	4146	74.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
EarthTronics, Inc.	EarthBulb	LP2730DWCEC	PAR20	500	71.4	7	3000	91	10	40	50	Dimmable	Tier I
EarthTronics, Inc.	EarthBulb	LP2730DWCEC25	PAR20	500	71.4	7	3000	91	10	40	50	Dimmable	Tier I
EarthTronics, Inc.	EarthBulb	LP2740DWCEC	PAR20	500	71.4	7	4000	92	10	40	60	Dimmable	Tier I
EarthTronics, Inc.	EarthBulb	LP2740DWCEC25	PAR20	500	71.4	7	4000	92	10	40	60	Dimmable	Tier I
EarthTronics, Inc.	EarthBulb	LP2750DWCEC	PAR20	500	71.4	7	5000	91	10	25	55	Dimmable	Tier I
EarthTronics, Inc.	Meijer	LP31030DWSNCEC	PAR30L	76.4	10.5	3000	90	10	40	40	48	Dimmable	Tier I
EarthTronics, Inc.	EarthBulb	LP31030DWSNCEC	PAR30	800	76.2	10.5	3000	90	10	40	48	Dimmable	Tier I
EarthTronics, Inc.	EarthBulb	LP31030DWCEC	PAR30	800	80	10	3000	91	10	40	52	Dimmable	Tier I
EarthTronics, Inc.	EarthBulb	10143	PAR30	800	80	10.5	3000	90	10	40	48	Dimmable	Tier I
EarthTronics, Inc.	EarthBulb	LP31050DWCEC	PAR30	800	76.9	10.4	5000	91	10	40	55	Dimmable	Tier I
EarthTronics, Inc.	EarthBulb	LP31050DWSNCEC	PAR30	800	74.8	10.7	5000	91	10	40	56	Dimmable	Tier I
EarthTronics, Inc.	Meijer	LP31030DWCEC	PAR30L	80	10	3000	91	10	40	40	52	Dimmable	Tier I
EarthTronics, Inc.	EarthBulb	LP31030DWCEC	PAR30L	800	80	10	3000	91	10	40	52	Dimmable	Tier I
EarthTronics, Inc.	Meijer	LP381730DWCEC	PAR38		70.6	17	3000	92	10	40	53	Dimmable	Tier I
EarthTronics, Inc.	EarthBulb	LP381730DWCEC	PAR38	1200	70.6	17	3000	92	10	40	53	Dimmable	Tier I
EarthTronics, Inc.	EarthBulb	LP381730DWCEC	PAR38	1200	70.6	17	3000	92	10	40	53	Dimmable	Tier I
EarthTronics, Inc.	EarthBulb	LP381730DWCEC25	PAR38	1200	70.6	17	3000	92	10	40	53	Dimmable	Tier I
EarthTronics, Inc.	EarthBulb	LP381750DWCEC	PAR38	1250	73.5	17	5000	92	10	40	62	Dimmable	Tier I
Eaton (formerly Cooper Lighting)	Lumark	LDWP-GL-3B-ED	Outdoor Non-Cutoff and Semi-Cutoff Wall-mounted Area Luminaires	3333	123.4	26.97	4992	72	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Eaton (formerly Cooper Lighting)	Lumark	PRV-A40-E-UNV-T2-AP-7060	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	16677.94	116.09	143.66	5496	75.9	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Eco-fitt Corporation	ecoBrilliant	EPAR207D2740	PAR20	500	71	7	2700	90	5	40	51	Dimmable	Tier I
Eco-fitt Corporation	ecoBrilliant	EPAR207D3040	PAR20	500	71.1	7	3000	92	5	40	63	Dimmable	Tier I
Eco-fitt Corporation	ecoBrilliant	EPAR3010D3040	PAR30L	800	72.7	11	3000	93	5	40	65	Dimmable	Tier I
Eco-fitt Corporation	ecoBrilliant	EP38D17-30K40	PAR38		70.6	17	3000	92	5	40	60	Dimmable	Tier I
Eiko Global, LLC	EIKO	VTS-1C-U-3K	Direct Linear Ambient Luminaires	4670.9	119.24	39.17	3094	82	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Eiko Global, LLC	EIKO	VTS-2C-U-3K	Direct Linear Ambient Luminaires	6837.4	123.99	55.14	3083	82	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Eiko Global, LLC	EIKO	LLH-2C-U-40	High-Bay Luminaires for Commercial and Industrial Buildings	12282	115.2	106.6	4092	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Eiko Global, LLC	EIKO	LLH-3C-U-40	High-Bay Luminaires for Commercial and Industrial Buildings	18520	116.7	158.7	4121	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Eiko Global, LLC	EIKO	LLH-4C-U-40	High-Bay Luminaires for Commercial and Industrial Buildings	25161	117.1	214.9	4197	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Elakeview Enterprise LTD	Elakeview Enterprise LTD	AALHB110W4KF	High-Bay Luminaires for Commercial and Industrial Buildings	12282	115.2	106.6	4092	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Elakeview Enterprise LTD	Elakeview Enterprise LTD	AALHB160W4KF	High-Bay Luminaires for Commercial and Industrial Buildings	18520	116.7	158.7	4121	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Elakeview Enterprise LTD	Elakeview Enterprise LTD	AALHB220W4KF	High-Bay Luminaires for Commercial and Industrial Buildings	25161	117.1	214.9	4197	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Elakeview Enterprise LTD	Elakeview Enterprise LTD	AALHB320W4KF	High-Bay Luminaires for Commercial and Industrial Buildings	37301	116.8	319.2	4189	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
ENCORE LED LLC	Encore LED	ENC-4RFK-120-PW-H-D	Retrofit Kits for High-Bay Luminaires for Commercial and Industrial Buildings	16648	143.59	115.9	4152	74.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
ENCORE LED LLC	Encore LED	ENC-4RFK-320-PW-H-D	Retrofit Kits for High-Bay Luminaires for Commercial and Industrial Buildings	44780	140.99	317.6	4156	75.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
ENCORE LED LLC	Encore LED	ENC-4RFK-45-PW-H-D	Retrofit Kits for Outdoor Full-Cutoff Wall-Mounted Area Luminaires	5949.6	124.62	47.74	4149	74.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
ENCORE LED LLC	Encore LED	ENC-4RFK-30-PW-H-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	3766.8	123.33	30.54	4136	74.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
ENCORE LED LLC	Encore LED	ENC-4RFK-45-PW-H-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	5770.4	125.43	46	4146	74.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
ENCORE LED LLC	Encore LED	ENC-4RFK-60-PW-H-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	8035.9	128.24	62.66	4149	74.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
ENCORE LED LLC	Encore LED	ENC-4RFK-105-PW-H-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	14154	134.8	105	4159	74.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
ENCORE LED LLC	Encore LED	ENC-4RFK-120-PW-H-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	15883	136.82	116.1	4146	74.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
ENCORE LED LLC	Encore LED	ENC-4RFK-150-PW-H-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	20680	127.7	161.9	4154	74.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
ENCORE LED LLC	Encore LED	ENC-4RFK-200-PW-H-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	26376	129.17	204.2	4141	74.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
ENCORE LED LLC	Encore LED	ENC-4RFK-280-PW-H-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	34857	122.24	285.1	4163	75.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
ENCORE LED LLC	Encore LED	ENC-4RFK-320-PW-H-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	40053	127.07	315.2	4152	75.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
ENCORE LED LLC	Encore LED	ENC-4RFK-350-PW-H-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	41649	116.15	358.6	4168	75.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Energy Planning Associates	Envirobrite	FWD6050	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	6979.48	112.43	62.08	4974	75.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Energy Solutions International	Energy Solutions International	F-14CR-L4H-35-FR	Direct Linear Ambient Luminaires	4458	118.7	37.552	3515	84.15	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Energy Solutions International	Energy Solutions International	F-18CR-L4VL-35-FR	Direct Linear Ambient Luminaires	3085	135.3	22.803	3515	84.15	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Energy Solutions International	Energy Solutions International	F-14CR-L4L-50-FR	Direct Linear Ambient Luminaires	2395	130.3	18.385	5192	83.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Energy Solutions International	Energy Solutions International	F-14VX-N4L-35-FR	Direct Linear Ambient Luminaires	2216	121.6	18.229	3530	84.54	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Energy Solutions International	Energy Solutions International	F-14VX-N4V-35-FR	Direct Linear Ambient Luminaires	4642	111.1	41.794	3583	83.11	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Energy Solutions International	Energy Solutions International	F-14VX-N4M-35-FR	Direct Linear Ambient Luminaires	3479	115.06	30.09	3583	83.11	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Energy Solutions International	Energy Solutions International	K-14VX-N4M-35-FR	Retrofit Kits for Direct Linear Ambient Luminaires	3479	115.06	30.09	3583	83.11	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Energy Solutions International	Energy Solutions International	K-14VX-N4V-35-FR	Retrofit Kits for Direct Linear Ambient Luminaires	4642	111.1	41.794	3583	83.11	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Energy Solutions International	Energy Solutions International	K-14VX-N4L-35-FR	Retrofit Kits for Direct Linear Ambient Luminaires	2216	121.6	18.229	3530	84.54	5			Continuous (Can dim down to ≤ 10% (W))	Tier II

Manufacturer	Brand	Model Number	LED Type	Light Output (Lumens)	Efficacy (lumens per Watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016 Tier Level (LEDA)
Entegriety Energy Partners, LLC	Entegriety	ENLED-LHB-150W-LS0K728B	High-Bay Luminaires for Commercial and Industrial Buildings	20986	137.61	152.5	4872	85.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Envirotech Lighting	EnviroTech Lighting	ENV-LRS-4L-5K	Direct Linear Ambient Luminaires	2556.94	114.97	22.24	5214	83.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Envirotech Lighting	EnviroTech Lighting	ENV-LRS-8L-3K	Direct Linear Ambient Luminaires	4435.024	112.85	39.3	3088	83.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Envirotech Lighting	EnviroTech Lighting	ENV-LRSRK-4L-5K	Direct Linear Ambient Luminaires	2473.12	111.15	22.25	5228	83.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Envirotech Lighting	EnviroTech Lighting	ENV-LRS-4H-4K	Direct Linear Ambient Luminaires	4336.3	113.2	38.3	4177	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Envirotech Lighting	EnviroTech Lighting	ENV-LRS-8H-3K	Direct Linear Ambient Luminaires	7546	112.13	67.3	3146	83.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Envirotech Lighting	EnviroTech Lighting	ENV-LRSRK-4H-5K	Direct Linear Ambient Luminaires	3655.32	112.58	32.47	5214	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Envirotech Lighting	EnviroTech Lighting	ENV-LVT-4H-3K	Direct Linear Ambient Luminaires	6837.4	123.99	55.14	3083	82	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Envirotech Lighting	EnviroTech Lighting	ENV-LVT-4L-3K	Direct Linear Ambient Luminaires	4670.9	119.24	39.17	3094	82	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Envirotech Lighting	EnviroTech Lighting	ENV-LWR-4L-4K	Direct Linear Ambient Luminaires	4512.1	115.07	39.21	3107	81.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Envirotech Lighting	EnviroTech Lighting	ENV-LHB7-110-4K-FL	High-Bay Luminaires for Commercial and Industrial Buildings	12282	115.2	106.6	4092	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Envirotech Lighting	EnviroTech Lighting	ENV-LHB7-160-4K-FL	High-Bay Luminaires for Commercial and Industrial Buildings	18520	116.7	158.7	4121	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Envirotech Lighting	EnviroTech Lighting	ENV-LHB7-220-4K-FL	High-Bay Luminaires for Commercial and Industrial Buildings	25161	117.1	214.9	4197	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Envirotech Lighting	EnviroTech Lighting	ENV-LHB7-320-4K-FL	High-Bay Luminaires for Commercial and Industrial Buildings	37301	116.8	319.2	4189	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Envirotech Lighting	EnviroTech Lighting	ENV-LRS-8L-35K	Low-Bay Luminaires for Commercial and Industrial Buildings	4655.01	116.38	40	3485	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Envirotech Lighting	EnviroTech Lighting	ENV-LRS-8H-35K	Low-Bay Luminaires for Commercial and Industrial Buildings	7573.9	113.21	66.9	3492	83.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
ESL Vision	MUR Series	ESL-MUR-45W-340-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	5770.4	125.43	46	4146	74.7	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
ESL Vision	MUR Series	ESL-MUR-45W-340-HV-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	5862.5	123.54	47.46	4136	74.8	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
ESL Vision	MUR Series	ESL-MUR-75W-340-HV-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	9871.6	132.79	74.34	4141	74.7	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
ESL Vision	MUR Series	ESL-MUR-105W-340-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	14154	134.8	105	4159	74.7	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
ESL Vision	MUR Series	ESL-MUR-105W-340-HV-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	14028	134.51	104.3	4136	74.9	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
ESL Vision	MUR Series	ESL-MUR-120W-340-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	15883	136.82	116.1	4146	74.7	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
ESL Vision	MUR Series	ESL-MUR-120W-340-HV-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	15606	132.39	117.9	4139	74.9	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
ESL Vision	MUR Series	ESL-MUR-150W-340-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	20680	127.7	161.9	4154	74.9	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
ESL Vision	MUR Series	ESL-MUR-150W-340-HV-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	19514	129.34	150.9	4136	74.8	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
ESL Vision	MUR Series	ESL-MUR-200W-340-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	26376	129.17	204.2	4141	74.9	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
ESL Vision	MUR Series	ESL-MUR-200W-340-HV-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	26028	128.41	202.7	4156	74.9	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
ESL Vision	MUR Series	ESL-MUR-280W-340-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	34857	122.24	285.1	4163	75.1	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
ESL Vision	MUR Series	ESL-MUR-280W-340-HV-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	33832	120.52	280.7	4259	75	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
ESL Vision	MUR Series	ESL-MUR-350W-340-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	41649	116.15	358.6	4168	75.2	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
ESL Vision	MUR Series	ESL-MUR-350W-340-HV-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	42639	118.3	358.2	4231	75.7	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
ESL Vision LLC	ESL Vision	ESL-GU10-7W-22740	PAR16	76.2	7	2700	90	5	40	48	62	Dimmable	Tier I
ESL Vision LLC	ESL Vision	ESL-GU10-7W-23040	PAR16	77.6	7	3000	93	5	40	62	62	Dimmable	Tier I
ESL Vision LLC	ESL Vision	ESL-PAR16-7W-22740	PAR16	76.2	7	2700	90	5	40	48	62	Dimmable	Tier I
ESL Vision LLC	ESL Vision	ESL-PAR16-7W-23040	PAR16	77.6	7	3000	93	5	40	62	62	Dimmable	Tier I
Espen Technology	ESPEN	L48T8/835/15G-XT H	2-lamp External driver Lamp-style retrofit kits (UL Type C)	2211.2	128.71	17.18	3460	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier I
Espen Technology	ESPEN	L48T8/830/15G-XT N	2-lamp External driver Lamp-style retrofit kits (UL Type C)	1810	127.02	14.25	2924	82.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier I
ETECH LED	RM - B9	RM-B4-120-40-D-90305-B	Retrofit Kits for High-Bay Luminaires for Commercial and Industrial Buildings	16648	143.59	115.9	4152	74.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
ETECH LED	RM - B66	RM-B4-320-40-D-90305	Retrofit Kits for High-Bay Luminaires for Commercial and Industrial Buildings	44780	140.99	317.6	4156	75.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
ETECH LED	RM - B147	RM-B4-320-40-D-347480	Retrofit Kits for High-Bay Luminaires for Commercial and Industrial Buildings	39314	121.15	324.5	4156	75.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
ETECH LED	RM - B15	RM-B4-120-40-D-90305	Retrofit Kits for Large Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	15883	136.82	116.1	4146	74.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
ETECH LED	RM - B87	RM-B4-45-40-D-90305-B	Retrofit Kits for Outdoor Full-Cutoff Wall-Mounted Area Luminaires	5949.6	124.62	47.74	4149	74.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
ETECH LED	RM - B99	RM-B4-30-40-D-90305	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	3766.8	123.33	30.54	4136	74.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
ETECH LED	RM - B27	RM-B4-45-40-D-347480	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	5862.5	123.54	47.46	4136	74.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
ETECH LED	RM - B33	RM-B4-60-40-D-90305	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	8035.9	128.24	62.66	4149	74.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
ETECH LED	RM - B81	RM-B4-60-40-D-347480	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	7888	133.84	58.94	4152	74.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
ETECH LED	RM - B93	RM-B4-45-40-D-90305	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	5770.4	125.43	46	4146	74.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
ETECH LED	RM - B21	RM-B4-150-40-D-90305	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	20680	127.7	161.9	4154	74.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
ETECH LED	RM - B39	RM-B4-350-40-D-90305	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	41649	116.15	358.6	4168	75.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
ETECH LED	RM - B45	RM-B4-105-40-D-90305	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	14154	134.8	105	4159	74.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II

Manufacturer	Brand	Model Number	LED Type	Light Output (Lumens)	Efficacy (lumens per Watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016 Tier Level (LEDA)
ETECH LED	RM - B54	RM-B4-120-40-D-347480	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	15606	132.39	117.9	4139	74.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
ETECH LED	RM - B60	RM-B4-320-40-D-90305-B	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	40053	127.07	315.2	4152	75.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
ETECH LED	RM - B75	RM-B4-75-40-D-347480	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	9871.6	132.79	74.34	4141	74.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
ETECH LED	RM - B105	RM-B4-105-40-D-347480	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	14028	134.51	104.3	4136	74.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
ETECH LED	RM - B111	RM-B4-150-40-D-347480	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	19514	129.34	150.9	4136	74.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
ETECH LED	RM - B117	RM-B4-200-40-D-90305-B	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	26376	129.17	204.2	4141	74.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
ETECH LED	RM - B123	RM-B4-280-40-D-347480	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	33832	120.52	280.7	4259	75	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
ETECH LED	RM - B129	RM-B4-200-40-D-347480	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	26028	128.41	202.7	4156	74.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
ETECH LED	RM - B135	RM-B4-280-40-D-90305	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	34857	122.24	285.1	4163	75.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
ETECH LED	RM - B141	RM-B4-320-40-D-347480-B	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	39314	121.15	324.5	4154	75.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
ETECH LED	RM - B153	RM-B4-350-40-D-347480	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	42639	118.3	358.2	4231	75.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
EWM International	Every Watt Matters	RK-MD-12-MED-C110-741-[Mount]-415	Retrofit Kits for High-Bay Luminaires for Commercial and Industrial Buildings	16648	143.59	115.9	4152	74.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
EWM International	Every Watt Matters	RK-XL-32-MED-C110-741-[Mount]-415	Retrofit Kits for High-Bay Luminaires for Commercial and Industrial Buildings	44780	140.99	317.6	4156	75.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
EWM International	Every Watt Matters	RK-XL-32-HED-C110-741-[Mount]-415	Retrofit Kits for High-Bay Luminaires for Commercial and Industrial Buildings	39314	121.15	324.5	4156	75.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
EWM International	Every Watt Matters	RK-MD-12-MED-C110-750-[Mount]-415	Retrofit Kits for Large Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	15883	136.82	116.1	4146	74.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
EWM International	Every Watt Matters	RK-SM-04-MED-C110-741-[Mount]-415	Retrofit Kits for Outdoor Full-Cutoff Wall-Mounted Area Luminaires	5949.6	124.62	47.74	4149	74.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
EWM International	Every Watt Matters	RK-SM-03-MEN-C110-741-[Mount]-415	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	3766.8	123.33	30.54	4136	74.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
EWM International	Every Watt Matters	RK-SM-04-MED-C110-741-[Mount]-415	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	5770.4	125.43	46	4146	74.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
EWM International	Every Watt Matters	RK-SM-06-MED-C110-741-[Mount]-415	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	8035.9	128.24	62.66	4149	74.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
EWM International	Every Watt Matters	RK-MD-10-MED-C110-741-[Mount]-415	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	14154	134.8	105	4159	74.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
EWM International	Every Watt Matters	RK-MD-12-HED-C110-741-[Mount]-415	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	15606	132.39	117.9	4139	74.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
EWM International	Every Watt Matters	RK-LG-15-MED-C110-741-[Mount]-415	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	20680	127.7	161.9	4154	74.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
EWM International	Every Watt Matters	RK-LG-20-MED-C110-741-[Mount]-415	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	26376	129.17	204.2	4141	74.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
EWM International	Every Watt Matters	RK-XL-28-MED-C110-741-[Mount]-415	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	34857	122.24	285.1	4163	75.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
EWM International	Every Watt Matters	RK-XL-32-MED-C110-741-[Mount]-415	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	40053	127.07	315.2	4152	75.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
EWM International	Every Watt Matters	RK-XL-32-HED-C110-741-[Mount]-415	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	39314	121.15	324.5	4154	75.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
EWM International	Every Watt Matters	RK-XL-35-MED-C110-741-[Mount]-415	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	41649	116.15	358.6	4168	75.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Excellence Opto, Inc.	e-lite star	ESU-EA012M016405-525	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	3460.2	125	27.66	3918	76	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Excellence Opto, Inc.	e-lite star	ESU-EA012M016405-105	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	6516.1	115	56.68	3797	75	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Excellence Opto, Inc.	e-lite star	ESU-EA012M03240M-105	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	12612	112.6	112	3844	74.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
EYE Lighting	APHOS	WA-L340-2A7-UX-XXX	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	4053	107.1	37.83	4066	72.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
EYE Lighting	Aphos	WA-L750-5M7-UX-XEXX	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	8351	110.8	75.36	5023	72.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
EYE Lighting	Aphos	WA-L1040-5M7-UX-XEXX	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	10990	123.2	89.2	3998	73.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
EYE Lighting	APHOS	RW-L340-5M7-UX-XXX	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	4177	109.5	38.15	5018	72.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
EYE Lighting	KIAROLED STREET AND AREA	A-L450-37-UY-XT-XXX	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	3515	102.7	34.24	4938	72.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
EYE Lighting	APHOS WALL AND AREA MINI SERIES	CMM-L340-5M7-UX-XXX	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	4167	108.4	38.4	4135	73.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
EYE Lighting	APHOS WALL AND AREA MINI SERIES	CMM-L350-5M7-UX-XXX	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	4100	107.5	38.14	4988	72.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
EYE Lighting	Aphos	WAM-L350-5M7-U-X-VE1[S or BLANK]	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	4087	108.4	37.7	5037	72.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
EYE Lighting	Aphos	WAM-L340-37-U-X-VE1[S or BLANK]	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	3990	104.92	38.03	4073	73.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
EYE Lighting	Aphos	RW-L740-5M7-UX-XEXX	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	8385	111.8	75	4095	73	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
EYE Lighting	Aphos	RW-L750-5M7-UX-XEXX	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	8351	110.8	75.36	5023	72.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
EYE Lighting	Aphos	WA-L1040-5M7-UX-XEXX	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	10990	123.2	89.2	3998	73.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
EYE Lighting	APHOS	CM-L350-5M7-UX-XXX	Parking Garage Luminaires	4177	109.5	38.15	5018	72.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
EYE Lighting	APHOS	CM-L340-5M7-UX-XXX	Parking Garage Luminaires	4027	106.3	37.88	4066	72.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
EYE Lighting	Aphos	CM-L740-37-UX-XEXX	Parking Garage Luminaires	8089	108	74.92	4095	73	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
EYE Lighting	Aphos	CM-L1040-5M7-UX-XEXX	Parking Garage Luminaires	10990	123.2	89.2	3998	73.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Feit Electric	FEIT ELECTRIC	AGOM800/927/LED/PGE	A19	810	85.3	9.5	2700	93	5		61	Dimmable	Tier I
Feit Electric	FEIT ELECTRIC	CEOM60/927/4	A19	800	84.2	9.5	2700	94	5		57	Dimmable	Tier I
Flextronics Lighting Inc	ES3V-AFCC-CAB	High-Bay Aisle Luminaires		16884	113	149	4028	82.2	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II

Manufacturer	Brand	Model Number	LED Type	Light Output (lumens)	Efficacy (lumens per Watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016 Tier Level (LEDA)
Flextronics Lighting Inc	Flextronics	ES3P-AECC-ABB	High-Bay Luminares for Commercial and Industrial Buildings	11040	125.2	88.2	4004	82.1	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Flextronics Lighting Inc	Flextronics	GRWP3H-AFCC-AAH	High-Bay Luminares for Commercial and Industrial Buildings	37358	119.8	311.8	4086	80.3	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Flextronics Lighting Inc	Flextronics	ES3V-AECC-ABB	High-Bay Luminares for Commercial and Industrial Buildings	11197	110.9	101	4023	82.2	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Flextronics Lighting Inc	Flextronics	ES3PH-AECC-ABB	High-Bay Luminares for Commercial and Industrial Buildings	14066	122	115.31	3978	82.3	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Flextronics Lighting Inc	Flextronics	ES3PH-AFCC-AAH	High-Bay Luminares for Commercial and Industrial Buildings	31066	130.1	238.76	4057	80.4	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Flextronics Lighting Inc	Lusio	HD1-ADCC-ABB	High-Bay Luminares for Commercial and Industrial Buildings	22089.2	126.3	174.9	3984	83	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Flextronics Lighting Inc	Lusio	HD1-ADCC-AAB	High-Bay Luminares for Commercial and Industrial Buildings	23218	133.8	173.5	5005	83.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Flextronics Lighting Inc	Flextronics	ES3V-ADCC-ABB	Low-Bay Luminares for Commercial and Industrial Buildings	5666	112	50.6	4022	82.2	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Flextronics Lighting Inc	Flextronics	ES3P-ADCC-ABB	Low-Bay Luminares for Commercial and Industrial Buildings	5461	124.7	44.2	4007	82.2	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Flextronics Lighting Inc	Flextronics	ES3V-ADCC-CAB	Low-Bay Luminares for Commercial and Industrial Buildings	5669	110	51.6	4022	82.2	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Flextronics Lighting Inc	Lusio	HD1-AACC-ABB	Low-Bay Luminares for Commercial and Industrial Buildings	5830	128.3	45.43	3988	83.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Flextronics Lighting Inc	Lusio	HD1-AACC-ABH	Low-Bay Luminares for Commercial and Industrial Buildings	5860	125.8	46.59	3980	83.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Foshan Natuared Electric Co.,Ltd	Natuared	LED-FXVTL29/40K	Parking Garage Luminares	3238.39	112.37	28.82	4125	85.6	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Foshan Natuared Electric Co.,Ltd	Natuared	LED-FXVTL58/40K	Parking Garage Luminares	6424.085	110.74	58.01	4170	86	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Foxconn Technology Pte. Ltd.	FOXCONN	CD1-U180A-D	High-Bay Luminares for Commercial and Industrial Buildings	24010.07	137.91	174.1	4912	74.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Foxconn Technology Pte. Ltd.	FOXCONN	CD1-U150A-D	High-Bay Luminares for Commercial and Industrial Buildings	19761.04	137.33	143.9	4914	73.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Foxconn Technology Pte. Ltd.	FOXCONN	CD1-U125A-D	High-Bay Luminares for Commercial and Industrial Buildings	16390.27	137.341	119.34	4897	74.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
FSC Lighting	FSC Lighting	L6048-LL-30K-[OS, OSD, PRGOS, FSP-211, IR-TEC]	Direct Linear Ambient Luminares	3906.16	121	32.19	3079	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
FSC Lighting	FSC	L6024-LL-30K [OS, OSD, PRGOS, FSP-211, IR-TEC]	Direct Linear Ambient Luminares	1929.8	116	16.63	3084	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
FSC Lighting	FSC	LEHB-22-106WT-40K	High-Bay Luminares for Commercial and Industrial Buildings	12282	115.2	106.6	4092	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
FSC Lighting	FSC	LEHB-22-158WT-40K	High-Bay Luminares for Commercial and Industrial Buildings	18520	116.7	158.7	4121	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
FSC Lighting	FSC	LEHB-24-214WT-40K	High-Bay Luminares for Commercial and Industrial Buildings	25161	117.1	214.9	4197	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
FSC Lighting	FSC	LEHB-24-320WT-40K	High-Bay Luminares for Commercial and Industrial Buildings	37301	116.8	319.2	4189	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
FSC Lighting	FSC / MIRUS LIGHTING	L6048-LL-30K-EB [OS, OSD, PRGOS, FSP-211, IR-TEC]	Stairwell and Passageway Luminares	3906.16	121	32.19	3079	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
FSC Lighting	FSC / MIRUS LIGHTING	L6024-LL-30K-EB [OS, OSD, PRGOS, FSP-211, IR-TEC]	Stairwell and Passageway Luminares	1928.8	116	16.63	3084	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
FY Lighting Co., Ltd	Fen Yong	FY-HB-150W-DIM-H50K728B	High-Bay Luminares for Commercial and Industrial Buildings	20652	136.05	151.8	4888	85.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
FY Lighting Co., Ltd	Fen Yong	FY-HB-240W-DIM-L50K728BH	High-Bay Luminares for Commercial and Industrial Buildings	30880	129.42	238.6	4860	83.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
FY Lighting Co., Ltd	Fen Yong	FY-HB-195W-DIM-H50K728B	High-Bay Luminares for Commercial and Industrial Buildings	26538	139.2	190.7	4858	86.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
FY Lighting Co., Ltd	Fen Yong	FY-HB-195W-DIM-L50K728B	High-Bay Luminares for Commercial and Industrial Buildings	26275	136.28	192.8	4879	85.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
FY Lighting Co., Ltd	Fen Yong	FY-T8-1200EF5(L30K120C)	2-lamp External driver Lamp-style retrofit kits (UL Type C)	1802	116.33	15.49	3033	83.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier I
FY Lighting Co., Ltd	Fen Yong	FY-T8-1200EC5(L30K120C)	2-lamp External driver Lamp-style retrofit kits (UL Type C)	1901.8	122.78	15.49	3023	83.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier I
FY Lighting Co., Ltd	Fen Yong	FY-T8-1200EF5(L30K120CGX2X42V72)	2-lamp External driver Lamp-style retrofit kits (UL Type C)	2099	130.13	16.13	2970	82.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier I
FY Lighting Co., Ltd	Fen Yong	FY-T8-1200EC5(L30K120CGX2X42V72)	2-lamp External driver Lamp-style retrofit kits (UL Type C)	2335	143.52	16.27	2963	82	5			Continuous (Can dim down to ≤ 10% (W))	Tier I
FY Lighting Co., Ltd	Fen Yong	FY-T8-1200EC(H30K120CGXD)	2-lamp External driver Lamp-style retrofit kits (UL Type C)	2182	123.21	17.71	3053	83	5			Continuous (Can dim down to ≤ 10% (W))	Tier I
FY Lighting Co., Ltd	Fen Yong	FY-T8-1200EF(H30K120CGXD)	2-lamp External driver Lamp-style retrofit kits (UL Type C)	1968	110.44	17.82	3033	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier I
GE Lighting	GE Lighting	94901	PAR38	1100	75	18	2700	95	5	15	96	Dimmable	Tier I
GE Lighting	GE Lighting	94903	PAR38	1200	70	18	3000	95	5	15	95	Dimmable	Tier I
GE Lighting	GE Lighting	94904	PAR38	1200	72	18	3000	95	5	25	95	Dimmable	Tier I
GE Lighting	GE Lighting	94905	PAR38	1200	72	18	3000	95	5	40	95	Dimmable	Tier I
GE Lighting Solutions	GE Lumination	DS-[I, C]-04-0-A3-[M, C]V-xxxx	Direct Linear Ambient Luminares	3978.9	110.2	36.1	4009	83.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
GE Lighting Solutions	GE Lumination	DS-[I,C]-08-0-A3-[M, C]V-xxxx	Direct Linear Ambient Luminares	8240.6	112.7	73.1	4001	83.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
GE Lighting Solutions	GE Lumination	IS-[1, C, S]4-D-B5-M-[V, D]-XXXX	Direct Linear Ambient Luminares	5426	115.4	47	4990	82.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
GE Lighting Solutions	Albeo	ALCSD1V48D8xxxxxxxxxx	Direct Linear Ambient Luminares	12847.8	111.4	115.3	3882	83	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
GE Lighting Solutions	Albeo	ALCSD1T48D4xxxxxxxxxx	Direct Linear Ambient Luminares	2892.2	110	26.3	3863	83.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
GE Lighting Solutions	GE Lumination	IS-[1, C, S]8-0-A2-M-X-XXXX-EL	Direct Linear Ambient Luminares	7756.2	112	69.3	3418	83.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
GE Lighting Solutions	GE Luminations	IS-[1, C, S]8-0-B2-M-[V, D]-XXXX	Direct Linear Ambient Luminares	9862.5	117.1	84.2	3425	83.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
GE Lighting Solutions	GE Luminations	IS-[1, C, S]8-0-A2-M-[V, D]-XXXX	Direct Linear Ambient Luminares	7999.4	122.3	65.4	3417	83.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
GE Lighting Solutions	Albeo	ABV1x1V575xVxxxx	High-Bay Luminares for Commercial and Industrial Buildings	11446.5	119.2	96	4878	73.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
GE Lighting Solutions	Albeo ABR1 Series	ABR1[0, 1, 2, 3, 4, 5, D]4H475xVxxxx	High-Bay Luminares for Commercial and Industrial Buildings	42641	119	358.2	3918	72.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
GE Lighting Solutions	Albeo	ALCSD1V47D8xxxxxxxxxx	High-Bay Luminares for Commercial and Industrial Buildings	14197.6	123.4	115.1	3921	73	5			Continuous (Can dim down to ≤ 10% (W))	Tier II

Manufacturer	Brand	Model Number	LED Type	Light Output (lumens)	Efficacy (lumens per Watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016 Tier Level (LEDA)
GE Lighting Solutions	Albeo	ALC5D1H47D8xxxxxxxxxx	High-Bay Luminaires for Commercial and Industrial Buildings	10227.4	132.7	77.1	3902	73	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
GE Lighting Solutions	Albeo	ALC5(0,1,2,4)1V57D8xxxxxxxxxx	High-Bay Luminaires for Commercial and Industrial Buildings	14787.3	135.6	109.1	4968	73.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
GE Lighting Solutions	Albeo	ALV1D1V47D8xxxxxxxxxx	High-Bay Luminaires for Commercial and Industrial Buildings	14428.9	123.2	117.1	3924	73	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
GE Lighting Solutions	Albeo	ALV1D1H47D8xxxxxxxxxx	High-Bay Luminaires for Commercial and Industrial Buildings	10423.4	133.3	78.2	3912	73	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
GE Lighting Solutions	Albeo	ABH3(0,1,2,4)2T48DXXXXW	High-Bay Luminaires for Commercial and Industrial Buildings	10099.2	115.4	87.5	4064	82.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
GE Lighting Solutions	Albeo	ABV1x1T575xVxxxx	Low-Bay Luminaires for Commercial and Industrial Buildings	8360.4	128.7	65	4875	73.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
GE Lighting Solutions	Albeo	ABV1x1T475xVxxxx	Low-Bay Luminaires for Commercial and Industrial Buildings	8287	117.21	70.7	3853	72.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
GE Lighting Solutions	GE Lumination	IS-[1, C, S]8-0-A2-M-X-XXXX-EL	Low-Bay Luminaires for Commercial and Industrial Buildings	7756.2	112	69.3	3418	83.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
GE Lighting Solutions	GE Luminations	IS-[1, C, S]8-0-B2-M-[V, D]-XXXX	Low-Bay Luminaires for Commercial and Industrial Buildings	9862.5	117.1	84.2	3425	83.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
GE Lighting Solutions	GE Luminations	IS-[1, C, S]8-0-A2-M-[V, D]-XXXX	Low-Bay Luminaires for Commercial and Industrial Buildings	7999.4	122.3	65.4	3417	83.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
GE Lighting Solutions	Albeo ABR1 Series	ABR1[0, 1, 2, 3, 4, 5, D]1T571xVxxxx	Low-Bay Luminaires for Commercial and Industrial Buildings	8131	130.7	62.2	4912	74.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
GE Lighting Solutions	Albeo ABR1 Series	ABR1[0, 1, 2, 3, 4, 5, D]1T475xVxxxx	Low-Bay Luminaires for Commercial and Industrial Buildings	7871.4	122.6	64.2	3925	73.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
GE Lighting Solutions	GE Lumination	DS-[1,C]-08-0-A3-[M, C]V-xxx	Low-Bay Luminaires for Commercial and Industrial Buildings	8240.6	112.7	73.1	4001	83.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
GE Lighting Solutions	Albeo	ALC5D1H47D4xxxxxxxxxx	Low-Bay Luminaires for Commercial and Industrial Buildings	5190.4	125.4	41.4	3903	73	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
GE Lighting Solutions	Albeo	ALV1D1H47D4xxxxxxxxxx	Low-Bay Luminaires for Commercial and Industrial Buildings	5229	125.4	41.7	3910	73.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
GE Lighting Solutions	Albeo	ABH3(0,1,2,4)1T48DXXXXW	Low-Bay Luminaires for Commercial and Industrial Buildings	5072.4	116.5	43.6	4101	82.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
GE Lighting Solutions	GE Lighting Evolve	ERL1-[0,1,2,3,4]-05-A1-40-[A,D]-XXXX-XXX	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	4787.8	116.2	41.2	4029	72.9	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
GE Lighting Solutions	GE Lighting Evolve	ERL1-[0,1,2,3,4]-03-A1-40-[A,D]-XXXX-XXX	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	2883.9	125.3	23	4006	71.8	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
GE Lighting Solutions	GE Lighting Evolve	EASC-[0,1,2,3,4, 5,D,H]-LA-N-7-40-[1,2,4,5]-X-XXXX-DXX	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	46261.8	116.4	397.5	4022	72.5	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
GE Lighting Solutions	GE Lighting Evolve	EFH1-01-[0,1,2,3,4,5,D,H]-EE-65-7-30-X-X-XXXX-XXXXXX	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	35449.5	120.2	294.9	3063	71.7	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
GE Lighting Solutions	GE Lighting Evolve	EFH1-01-[0,1,2,3,4,5,D,H]-AA-65-7-30-X-X-XXXX-XXXXXX	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	17772.1	121.2	148.3	3053	71.7	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
GE Lighting Solutions	GE Lighting	LED21T8/G4/830HL	2-lamp External driver Lamp-style retrofit kits (UL Type C)	2510.6	116.3	21.6	2990	81.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier I
GE Lighting Solutions	GE Lighting	LED15T8/4/830 [LED15T8/DR/D2L Driver]	2-lamp External driver Lamp-style retrofit kits (UL Type C)	1690.1	131	12.9	2961	83	5			Continuous (Can dim down to ≤ 10% (W))	Tier I
GE Lighting Solutions	GE Lighting	LED15T8/G/4/830 [LED15T8/DR/D2L]	2-lamp External driver Lamp-style retrofit kits (UL Type C)	1705.4	129.2	13.2	3108	82.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier I
Global Energy & Lighting	Blaze LED	GEL-HB-300W-3K-90-D	High-Bay Luminaires for Commercial and Industrial Buildings	38682	126.54	305.7	3014	72.3	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Global Energy & Lighting	Blaze LED	GEL-HB-200W-HV-5K-90-D	High-Bay Luminaires for Commercial and Industrial Buildings	24670	126.45	195.1	5179	74.9	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Global Energy & Lighting	Blaze LED	GEL-HB-200W-HV-3K-90-D	High-Bay Luminaires for Commercial and Industrial Buildings	23412	118.96	196.8	3113	73.8	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Global Energy & Lighting	Blaze LED	GEL-HB-50W-5K-90-D	Low-Bay Luminaires for Commercial and Industrial Buildings	5981	114.21	52.37	5213	75.6	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Go Green LED International	Go Green LED International	GGLI-4RFK-120-PW-H-D	Retrofit Kits for High-Bay Luminaires for Commercial and Industrial Buildings	16648	143.59	115.9	4152	74.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Go Green LED International	Go Green LED International	GGLI-4RFK-30-PW-H-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	3766.8	123.33	30.54	4136	74.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Go Green LED International	Go Green LED International	GGLI-4RFK-45-PW-H-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	5770.4	125.43	46	4146	74.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Go Green LED International	Go Green LED International	GGLI-4RFK-45-HV-PW-H-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	5862.5	123.54	47.46	4136	74.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Go Green LED International	Go Green LED International	GGLI-4RFK-60-PW-H-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	8035.9	128.24	62.66	4149	74.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Go Green LED International	Go Green LED International	GGLI-4RFK-60-HV-PW-H-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	7888	133.84	58.94	4152	74.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Go Green LED International	Go Green LED International	GGLI-4RFK-75-HV-PW-H-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	9871.6	132.79	74.34	4141	74.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Go Green LED International	Go Green LED International	GGLI-4RFK-105-PW-H-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	14154	134.8	105	4159	74.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Go Green LED International	Go Green LED International	GGLI-4RFK-105-HV-PW-H-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	14028	134.51	104.3	4136	74.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Go Green LED International	Go Green LED International	GGLI-4RFK-120-PW-H-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	15883	136.82	116.1	4146	74.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Go Green LED International	Go Green LED International	GGLI-4RFK-120-HV-PW-H-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	15606	132.39	117.9	4139	74.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Go Green LED International	Go Green LED International	GGLI-4RFK-150-PW-H-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	20680	127.7	161.9	4154	74.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Go Green LED International	Go Green LED International	GGLI-4RFK-150-HV-PW-H-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	19514	129.34	150.9	4136	74.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Go Green LED International	Go Green LED International	GGLI-4RFK-200-PW-H-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	26376	129.17	204.2	4141	74.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Go Green LED International	Go Green LED International	GGLI-4RFK-200-HV-PW-H-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	26028	128.41	202.7	4156	74.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Go Green LED International	Go Green LED International	GGLI-4RFK-280-PW-H-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	34857	122.24	285.1	4163	75.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Go Green LED International	Go Green LED International	GGLI-4RFK-280-HV-PW-H-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	33832	120.52	280.7	4259	75	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Go Green LED International	Go Green LED International	GGLI-4RFK-320-PW-H-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	40053	127.07	315.2	4152	75.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Go Green LED International	Go Green LED International	GGLI-4RFK-320-HV-PW-H-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	39314	121.15	324.5	4154	75.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Go Green LED International	Go Green LED International	GGLI-4RFK-350-PW-H-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	41649	116.15	358.6	4168	75.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II

Manufacturer	Brand	Model Number	LED Type	Light Output (Lumens)	Efficacy (lumens per Watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016 Tier Level (LEDA)
Go Green LED International	Go Green LED International	GGU-4RFK-350-HV-PW-H-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	42639	118.3	358.2	4231	75.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Green Creative	Green Creative	7.5MR16G4DIM/930NF25	MR16	505	67.3	7.5	3000	93	3	25	69	Dimmable	Tier I
Green Creative	Green Creative	7.5MR16G4DIM/930FL36	MR16	505	67.3	7.5	3000	95	3	36	75	Dimmable	Tier I
Green Creative	Green Creative	7PAR20G4DIM/940FL40	PAR20	505	72.1	7	4000	92	5	40	56	Dimmable	Tier I
Green Creative	Green Creative	11PAR30SNG4DIM/940FL40	PAR30	780	70.9	11	4000	93	5	40	65	Dimmable	Tier I
Green Creative	Green Creative	11PAR30SNG4DIM/940NF25	PAR30	780	70.9	11	4000	93	5	25	65	Dimmable	Tier I
Green Creative	Green Creative	12.5PAR30G4DIM/940FL40	PAR30	900	72	12.5	4000	91	5	40	56	Dimmable	Tier I
Green Creative	Green Creative	12.5PAR30G4/940FL40/277V	PAR30L	900	72	12.5	4000	92	5	40	57		Tier I
Green Creative	Green Creative	17PAR38G4/940FL40/277V	PAR38	1200	70.6	17	4000	93	5	40	65		Tier I
Green Creative	Green Creative	17PAR38G4DIM/940FL40	PAR38	1200	70.6	17	4000	94	5	40	70	Dimmable	Tier I
GREEN INOVA LIGHTING TECHNOLOGY (SHENZHEN) LTD	GREEN INOVA	GI-2HB15-HV-PW-PC-D	High-Bay Luminaires for Commercial and Industrial Buildings	19182	134.99	142.1	4060	74.9	6			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
GREEN INOVA LIGHTING TECHNOLOGY (SHENZHEN) LTD	GREEN INOVA	GI-2HB15-PW-PC-D	High-Bay Luminaires for Commercial and Industrial Buildings	17165	117.97	145.5	5105	74.9	6			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
GREEN INOVA LIGHTING TECHNOLOGY (SHENZHEN) LTD	GREEN INOVA	GI-2HB16-HV-PW-110-D	High-Bay Luminaires for Commercial and Industrial Buildings	24403	134.82	181	4073	74.9	6			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
GREEN INOVA LIGHTING TECHNOLOGY (SHENZHEN) LTD	GREEN INOVA	GI-2HB16-PW-110-D	High-Bay Luminaires for Commercial and Industrial Buildings	24153	122.17	197.7	4109	74.9	6			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
GREEN INOVA LIGHTING TECHNOLOGY (SHENZHEN) LTD	GREEN INOVA	GI-2HB16-PW-PC-D	High-Bay Luminaires for Commercial and Industrial Buildings	23910	115.12	207.7	4116	75	6			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
GREEN INOVA LIGHTING TECHNOLOGY (SHENZHEN) LTD	GREEN INOVA	GI-2HB15-PW-110-D	High-Bay Luminaires for Commercial and Industrial Buildings	18344	126.25	145.3	4100	74.9	6			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
GREEN INOVA LIGHTING TECHNOLOGY (SHENZHEN) LTD	GREEN INOVA	GI-2HB16-HV-PW-PC-D	High-Bay Luminaires for Commercial and Industrial Buildings	23827	131.93	180.6	4080	74.9	6			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
GREEN INOVA LIGHTING TECHNOLOGY (SHENZHEN) LTD	GREEN INOVA	GI-2HB15-HV-PW-110-D	High-Bay Luminaires for Commercial and Industrial Buildings	19865	139.21	142.7	4065	74.9	6			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
GREEN INOVA LIGHTING TECHNOLOGY (SHENZHEN) LTD	GREEN INOVA	GI-2HB10-PW-110-D	High-Bay Luminaires for Commercial and Industrial Buildings	12487	130.8	95.47	4092	74.8	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
GREEN INOVA LIGHTING TECHNOLOGY (SHENZHEN) LTD	GREEN INOVA	GI-2HB10-PW-PC-D	High-Bay Luminaires for Commercial and Industrial Buildings	11689	122.81	95.18	4098	74.9	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Green Lumens	Green Lumens	GL-T8-1200ECS(L30K120C)	2-lamp External driver Lamp-style retrofit kits (UL Type C)	1901.8	122.78	15.49	3023	83.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier I
Green Lumens	Green Lumens	GL-T8-1200EFS(L30K120C)	2-lamp External driver Lamp-style retrofit kits (UL Type C)	1802	116.33	15.49	3033	83.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier I
Green Lumens	Green Lumens	GL-T8-1200ECS(L30K120CGX2X42VT2)	2-lamp External driver Lamp-style retrofit kits (UL Type C)	2335	143.52	16.27	2963	82	5			Continuous (Can dim down to ≤ 10% (W))	Tier I
Green Lumens	Green Lumens	GL-T8-1200EFS(L30K120CGX2X42VT2)	2-lamp External driver Lamp-style retrofit kits (UL Type C)	2099	130.13	16.13	2970	82.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier I
Green Ray LED International, LLC	Green Ray LED	GR-T5-415AM*2-41F-DWRV2	2-lamp External driver Lamp-style retrofit kits (UL Type C)	2224	133.17	16.7	4045	82.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier I
Green Ray LED International, LLC	Green Ray LED	GR-T5-422AM*2-41F-DWRV2	2-lamp External driver Lamp-style retrofit kits (UL Type C)	2864.1	130.4	21.9	3981	81.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier I
Green Ray LED International, LLC	Green Ray LED	GR-T5-422AM*2-41C-DWRV2	2-lamp External driver Lamp-style retrofit kits (UL Type C)	2951.1	134.1	22	3990	81.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier I
Halco Lighting Technologies	ProLED	82004	PAR20	500	71.4	7	4000	92	5	25	60	Dimmable	Tier I
Halco Lighting Technologies	ProLED	82005	PAR20	525	75	7	5000	91	5	40	55	Dimmable	Tier I
Halco Lighting Technologies	ProLED	82010	PAR20	500	71.4	7	4000	92	5	40	60	Dimmable	Tier I
Halco Lighting Technologies	ProLED	82011	PAR20	500	71.4	7	4000	92	5	40	60	Dimmable	Tier I
Halco Lighting Technologies	ProLED	82060	PAR20	525	75	7	5000	91	5	40	55	Dimmable	Tier I
Halco Lighting Technologies	ProLED	82017	PAR30	820	82	10	4000	92	5	40	52	Dimmable	Tier I
Halco Lighting Technologies	ProLED	82025	PAR30	750	71.4	10.5	2700	90	5	40	45	Dimmable	Tier I
Halco Lighting Technologies	ProLED	82026	PAR30	750	71.4	10.5	2700	90	5	40	45	Dimmable	Tier I
Halco Lighting Technologies	ProLED	82027	PAR30	800	76.2	10.5	3000	90	5	40	48	Dimmable	Tier I
Halco Lighting Technologies	ProLED	82028	PAR30	800	76.2	10.5	3000	90	5	40	48	Dimmable	Tier I
Halco Lighting Technologies	ProLED	82029	PAR30	820	78.1	10.5	4000	93	5	40	61	Dimmable	Tier I
Halco Lighting Technologies	ProLED	82030	PAR30	820	78.1	10.5	4000	93	5	40	61	Dimmable	Tier I
Halco Lighting Technologies	ProLED	82031	PAR30	850	79.4	10.7	5000	91	5	40	56	Dimmable	Tier I
Halco Lighting Technologies	ProLED	82032	PAR30	750	71.4	10.5	2700	90	5	25	45	Dimmable	Tier I
Halco Lighting Technologies	ProLED	82033	PAR30	750	71.4	10.5	2700	90	5	25	45	Dimmable	Tier I
Halco Lighting Technologies	ProLED	82034	PAR30	800	76.2	10.5	3000	90	5	25	48	Dimmable	Tier I
Halco Lighting Technologies	ProLED	82035	PAR30	800	80	10.5	3000	90	5	25	48	Dimmable	Tier I
Halco Lighting Technologies	ProLED	82036	PAR30	820	78.1	10.5	4000	93	5	25	61	Dimmable	Tier I
Halco Lighting Technologies	ProLED	82012	PAR30L	750	75	10	2700	91	5	40	50	Dimmable	Tier I
Halco Lighting Technologies	ProLED	82013	PAR30L	750	75	10	2700	91	5	40	50	Dimmable	Tier I
Halco Lighting Technologies	ProLED	82014	PAR30L	800	80	10	3000	91	5	40	52	Dimmable	Tier I
Halco Lighting Technologies	ProLED	82015	PAR30L	800	80	10	3000	91	5	40	52	Dimmable	Tier I
Halco Lighting Technologies	ProLED	82016	PAR30L	820	82	10	4000	92	5	40	52	Dimmable	Tier I
Halco Lighting Technologies	ProLED	82018	PAR30L	850	81.7	10.4	5000	91	5	40	55	Dimmable	Tier I
Halco Lighting Technologies	ProLED	82019	PAR30L	750	75	10	2700	91	5	25	50	Dimmable	Tier I
Halco Lighting Technologies	ProLED	82020	PAR30L	750	75	10	2700	91	5	25	50	Dimmable	Tier I
Halco Lighting Technologies	ProLED	82021	PAR30L	800	80	10	3000	91	5	25	52	Dimmable	Tier I
Halco Lighting Technologies	ProLED	82024	PAR30L	850	81.7	10.4	5000	91	5	25	55	Dimmable	Tier I
Halco Lighting Technologies	ProLED	82041	PAR38	1050	70	15	5000	91	5	40	57	Dimmable	Tier I
Halco Lighting Technologies	ProLED	82048	PAR38	1200	70.6	17	3000	92	5	40	53	Dimmable	Tier I
Halco Lighting Technologies	ProLED	82049	PAR38	1200	70.6	17	3000	92	5	40	53	Dimmable	Tier I
Halco Lighting Technologies	ProLED	82050	PAR38	1220	71.8	17	4000	93	5	40	65	Dimmable	Tier I
Halco Lighting Technologies	ProLED	82051	PAR38	1220	71.8	17	4000	93	5	40	65	Dimmable	Tier I
Halco Lighting Technologies	ProLED	82052	PAR38	1250	73.5	17	5000	92	5	40	62	Dimmable	Tier I
Halco Lighting Technologies	ProLED	82055	PAR38	1200	70.6	17	3000	92	5	25	53	Dimmable	Tier I
Halco Lighting Technologies	ProLED	82056	PAR38	1200	70.6	17	3000	92	5	25	53	Dimmable	Tier I
Halco Lighting Technologies	ProLED	82057	PAR38	1220	70.6	17	4000	93	5	25	65	Dimmable	Tier I
Halco Lighting Technologies	ProLED	82059	PAR38	1250	73.5	17	5000	92	5	25	62	Dimmable	Tier I
Halco Lighting Technologies	ProLED	82061	PAR38	1200	70.6	17	4000	93	5	40	61		Tier I
Halco Lighting Technologies	ProLED	82062	PAR38	1200	70.6	17	5000	92	5	40	62		Tier I
Hengdian Group Tospo Lighting Co., Ltd.	Tospo	682135	MR16	500	67.9	7.4	2700	94	3	25	62	Dimmable	Tier I
Hengdian Group Tospo Lighting Co., Ltd.	Tospo	682136	MR16	500	68.6	7.3	3000	95	3	25	70	Dimmable	Tier I
Hengdian Group Tospo Lighting Co., Ltd.	Tospo	682138	MR16	500	67.9	7.4	2700	94	3	38	62	Dimmable	Tier I
Hengdian Group Tospo Lighting Co., Ltd.	Tospo	682139	MR16		71.4	7.4	3000	95	3	38	70	Dimmable	Tier I
Horner Lighting Group	Horner Lighting Group	ETG-WLL-2160-PX-C1-XX	High-Bay Luminaires for Commercial and Industrial Buildings	18431	115.28	159.88	5098	83.66	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Hyperikon Inc.	Hyperikon	HyperPAR20-50	PAR20		70	8	5000	94	5	40	77	Dimmable	Tier I
Hyperikon Inc.	Hyperikon	HyperPAR30-40	PAR30L		70.8	12	4000	91	5	40	56	Dimmable	Tier I
Hyperikon Inc.	Hyperikon	HyperPAR30-50	PAR30L		72.1	12	5000	94	5	40	80	Dimmable	Tier I
Hyperikon Inc.	Hyperikon	HyperPAR30-SN27	PAR30S	820	82	10	2700	92	5	40	56	Dimmable	Tier I
Hyperikon Inc.	Hyperikon	HyperPAR30-SN30	PAR30S	800	80	10	3000	92	5	40	55	Dimmable	Tier I

Manufacturer	Brand	Model Number	LED Type	Light Output (lumens)	Efficacy (lumens per Watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016 Tier Level (LEDA)
Hyperikon Inc.	Hyperikon	HyperPAR30-SN40	PAR30S	840	84	10	4000	92	5	40	64	Dimmable	Tier I
Hyperikon Inc.	Hyperikon	HyperPAR38-27	PAR38	78.4	14.6	2700	2700	93	5	40	53	Dimmable	Tier I
Hyperikon Inc.	Hyperikon	HyperPAR38-30	PAR38	82.4	14.8	3000	3000	93	5	40	57	Dimmable	Tier I
Hyperikon Inc.	Hyperikon	HyperPAR38-40	PAR38	83.8	14.8	4000	4000	94	5	40	70	Dimmable	Tier I
Hyperikon Inc.	Hyperikon	HyperPAR38-50	PAR38	85.1	14.8	4000	4000	94	5	40	78	Dimmable	Tier I
Independence LED	IndependenceLED	VTW2-21450K	Parking Garage Luminaires									Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Independence LED	IndependenceLED	VTW2-42850K	Parking Garage Luminaires	3455	120	28.87	5153	82.3	10			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Independence LED	IndependenceLED	R2-41327K-85-F	2-lamp External driver Lamp-style retrofit kits (UL Type C)	6917	120	57.14	5150	82.3	10			Continuous (Can dim down to ≤ 10% (W))	Tier I
Industrial Lighting Products	Industrial Lighting Products	FZ2A-29WLED-UNIV-30-FRAL-XXXX [Excludes SD480 and WC]	Direct Linear Ambient Luminaires	1614.7	134	12	2825	84.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Industrial Lighting Products	Industrial Lighting Products	FZ2A-16WLED-UNIV-30-FRAL-XXXX [Excludes SD480 and WC]	Direct Linear Ambient Luminaires	3373	116	29.06	3096	83.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Industrial Lighting Products	Industrial Lighting Products	FZ2A-29WLED-UNIV-30-FRAL-XXXX [Excludes SD480 and WC]	Direct Linear Ambient Luminaires	1943	119	16.37	3078	83.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Industrial Lighting Products	Industrial Lighting Products	WTZ-44WLED-UNIV-30-RAFL-XXXX [Excludes SD480]	Direct Linear Ambient Luminaires	3478	120	29.1	5291	85.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Industrial Lighting Products	Industrial Lighting Products	WTZ-16WLED-UNIV-30-RAFL-XXXX [Excludes SD480]	Direct Linear Ambient Luminaires	4878	110	44.23	3092	82.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Industrial Lighting Products	Industrial Lighting Products	WTZ-16WLED-UNIV-30-RAFL-XXXX [Excludes SD480]	Direct Linear Ambient Luminaires	2019	122	16.6	3058	83.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Industrial Lighting Products	Industrial Lighting Products	WTZ-55WLED-UNIV-30-RAFL-XXXX	Direct Linear Ambient Luminaires	6009	110	54.39	3044	80.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Industrial Lighting Products	Industrial Lighting Products	WTZ8-140WLED-UNIV-30-RAFL-XXXX [Excludes SD 480]	Direct Linear Ambient Luminaires	15750	113	138.9	2972	80.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Industrial Lighting Products	Industrial Lighting Products	WTZ8-32WLED-UNIV-30-RAFL-XXXX [Excludes SD 480]	Direct Linear Ambient Luminaires	4147	134	30.97	3069	82.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Industrial Lighting Products	Industrial Lighting Products	WTZ8-88WLED-UNIV-30-RAFL-XXXX [Excludes SD 480]	Direct Linear Ambient Luminaires	10210	115	88.83	3106	82	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Industrial Lighting Products	Industrial Lighting Products	FWS-30WLED-UNIV-30-XXXX [Excluding SD480]	Direct Linear Ambient Luminaires	3678	122	30.09	3057	82.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Industrial Lighting Products	Industrial Lighting Products	FWS-70WLED-UNIV-30-XXXX [Excluding SD480]	Direct Linear Ambient Luminaires	7647	110	69.43	3044	80.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Industrial Lighting Products	Industrial Lighting Products	FWS-20WLED-UNIV-30-XXXX [Excluding SD480, WC]	Direct Linear Ambient Luminaires	2811	128	21.95	3051	82.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Industrial Lighting Products	Industrial Lighting Products	FWS-40WLED-UNIV-30-XXXX [Excluding SD480, WC]	Direct Linear Ambient Luminaires	4700	117	40.33	3071	82.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Industrial Lighting Products	Industrial Lighting Products	FWS8-55WLED-UNIV-30-XXXX [Excluding SD480 and WC]	Direct Linear Ambient Luminaires	6770	125	53.98	3075	82.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Industrial Lighting Products	Industrial Lighting Products	FWS8-80WLED-UNIV-30-XXXX [Excluding SD480 and WC]	Direct Linear Ambient Luminaires	9563	119	80.19	3079	82.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Industrial Lighting Products	Industrial Lighting Products	FWS8-40WLED-UNIV-30-XXXX [Excluding SD480 and WC]	Direct Linear Ambient Luminaires	5456	127	42.87	3063	82.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Industrial Lighting Products	Industrial Lighting Products	WTZ-45WLED-UNIV-30-RAFL-XXXX [Excludes SD480]	Direct Linear Ambient Luminaires	4999	113	44.24	3040	80.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Industrial Lighting Products	Industrial Lighting Products	FZ4B-44WLED-UNIV-50-FRAL-XXXXX [Any Width Between 4.3"-12", ALL OPTIONS EXCEPT SD480, WC]	Direct Linear Ambient Luminaires	5246	118	44.64	5310	85.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Industrial Lighting Products	Industrial Lighting Products	FZ4B-44WLED-UNIV-30-FRAL-XXXXX [Any Width Between 4.3"-12", ALL OPTIONS EXCEPT SD480, WC]	Direct Linear Ambient Luminaires	4998	112	44.66	3096	83.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Industrial Lighting Products	Industrial Lighting Products	FZ4A-16WLED-UNIV-30-FRAL-XXXXX [Any Width Between 4.3"-12", ALL OPTIONS EXCEPT SD480, WC]	Direct Linear Ambient Luminaires	1970	120	16.42	3066	83.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Industrial Lighting Products	Industrial Lighting Products	BLEXT-140WLED-UNIV-3000K-FRAL-[Options Exclude -SD480]	High-Bay Luminaires for Commercial and Industrial Buildings	15290	111	138	3035	80.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Industrial Lighting Products	Industrial Lighting Products	BLEXT-140WLED-UNIV-5000K-FRAL-[Options Exclude -SD480]	High-Bay Luminaires for Commercial and Industrial Buildings	15890	114	139	5156	84.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Industrial Lighting Products	Industrial Lighting Products	BLEXT2-95WLED-UNIV-30-FRAL-XXXXX[Excludes SD480]	High-Bay Luminaires for Commercial and Industrial Buildings	11230	118	95	3053	80.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Industrial Lighting Products	Industrial Lighting Products	DHB-190WLED-UNIV-50-AD16-XXXXX [Exclude SD480]	High-Bay Luminaires for Commercial and Industrial Buildings	20910	110.8	188.7	5007	74	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Industrial Lighting Products	Industrial Lighting Products	HB-285WLED-UNIV-30-FRL-XXXXX [Excluding PCL, SD480]	High-Bay Luminaires for Commercial and Industrial Buildings	32360	114	284.5	3055	80.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Industrial Lighting Products	Industrial Lighting Products	GH24-140WLED-UNIV-3000K-FRL-XXX [Excludes SD480]	High-Bay Luminaires for Commercial and Industrial Buildings	15660	112	140	3069	80	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Industrial Lighting Products	Industrial Lighting Products	HB-380WLED-UNIV-50-FRL-XXXXX [Excluding SD480 option]	High-Bay Luminaires for Commercial and Industrial Buildings	43230	112.7	383.6	5182	84.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Industrial Lighting Products	Industrial Lighting Products	HB-380WLED-UNIV-30-FRL-XXXXX [Excluding SD480 option]	High-Bay Luminaires for Commercial and Industrial Buildings	42640	112	381.8	3069	80.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Industrial Lighting Products	Industrial Lighting Products	FZ8E-88WLED-UNIV-30-XXXXX [ALL OPTIONS EXCEPT SD480, WC]	High-Bay Luminaires for Commercial and Industrial Buildings	10010	112	89.14	3117	83	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Industrial Lighting Products	Industrial Lighting Products	BLEXT2-140WLED-UNIV-50-FRAL-XXXXX [Excluding PCL, SD480]	High-Bay Luminaires for Commercial and Industrial Buildings	15660	112	139.8	5239	85.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Industrial Lighting Products	Industrial Lighting Products	BLEXT2-140WLED-UNIV-30-FRAL-XXXXX [Excluding PCL, SD480]	High-Bay Luminaires for Commercial and Industrial Buildings	15430	112	136.7	3073	80.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Industrial Lighting Products	Industrial Lighting Products	FWS-70WLED-UNIV-30-XXXX [Excluding SD480]	Low-Bay Luminaires for Commercial and Industrial Buildings	7647	110	69.43	3044	80.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Industrial Lighting Products	Industrial Lighting Products	FWS-40WLED-UNIV-30-XXXX [Excluding SD480, WC]	Low-Bay Luminaires for Commercial and Industrial Buildings	4700	117	40.33	3071	82.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Industrial Lighting Products	Industrial Lighting Products	FWS8-55WLED-UNIV-30-XXXX [Excluding SD480 and WC]	Low-Bay Luminaires for Commercial and Industrial Buildings	6770	125	53.98	3075	82.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Industrial Lighting Products	Industrial Lighting Products	FWS8-80WLED-UNIV-30-XXXX [Excluding SD480 and WC]	Low-Bay Luminaires for Commercial and Industrial Buildings	9563	119	80.19	3079	82.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Industrial Lighting Products	Industrial Lighting Products	FWS8-40WLED-UNIV-30-XXXX [Excluding SD480 and WC]	Low-Bay Luminaires for Commercial and Industrial Buildings	5456	127	42.87	3063	82.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Industrial Lighting Products	Industrial Lighting Products	FZ4B-44WLED-UNIV-30-FRAL-XXXXX [ALL OPTIONS EXCEPT SD480, WC]	Low-Bay Luminaires for Commercial and Industrial Buildings	4998	112	44.66	3096	83.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Industrial Lighting Products	Industrial Lighting Products	RZ4B-44WLED-UNIV-50-FRAL-XXXXX [Any Width Between 4.3"-12", ALL OPTIONS EXCEPT SD480, WC]	Retrofit Kits for Direct Linear Ambient Luminaires	5246	118	44.64	5310	85.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Industrial Lighting Products	Industrial Lighting Products	RZ4B-44WLED-UNIV-30-FRAL-XXXXX [Any Width Between 4.3"-12", ALL OPTIONS EXCEPT SD480, WC]	Retrofit Kits for Direct Linear Ambient Luminaires	4998	112	44.66	3096	83.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II

Manufacturer	Brand	Model Number	LED Type	Light Output (lumens)	Efficacy (lumens per Watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016 Tier Level (LEDA)
Industrial Lighting Products	Industrial Lighting Products	R24A-16WLED-UNIV-30-FRAL-XXXXX [Any Width Between 4.3"-12", ALL OPTIONS EXCEPT SD480, WC]	Retrofit Kits for Direct Linear Ambient Luminaires	1970	120	16.42	3066	83.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Industrial Lighting Products	Industrial Lighting Products	CVX2-20WLED-UNIV-30-FRAL-XXXXX [Excluding SD480]	Stairwell and Passageway Luminaires	2185	107	20.46	3060	83.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Industrial Lighting Products	Industrial Lighting Products	CVX2-30WLED-UNIV-3000K-FRAL-USBD-XXXXX [Excluding SD480]	Stairwell and Passageway Luminaires	3246	109	29.66	3031	80.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Industrial Lighting Products	Industrial Lighting Products	CVX4-30WLED-UNIV-3000K-FRAL-USBD-XXXXX [Excluding SD480]	Stairwell and Passageway Luminaires	3500	117	29.91	3073	82.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Industrial Lighting Products	Industrial Lighting Products	CVX4-40WLED-UNIV-3000K-FRAL-USBD-XXXXX [Excluding SD480]	Stairwell and Passageway Luminaires	4486	112	39.92	3083	82.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Jarvis Corporation	Jarvis Corp	AR3-150-HV	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	15060	113.18	133.06	5073	72.11	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Jiangsu Ever-Tie Lighting Co. Ltd	Ever-tie	ETLSN-8FT/LW/DM 3000K	Direct Linear Ambient Luminaires	4435.024	112.85	39.3	3088	83.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Jiangsu Ever-Tie Lighting Co. Ltd	Ever-tie	ETLSN-4FT/LW/DM 5000K	Direct Linear Ambient Luminaires	2556.94	114.97	22.24	5214	83.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Jiangsu Ever-Tie Lighting Co. Ltd	Ever-tie	ETLSN-4FT/HL/DM 5000K	Direct Linear Ambient Luminaires	3778.232	116.504	32.43	5196	83.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Jiangsu Ever-Tie Lighting Co. Ltd	Ever-tie	ETLSN-8FT/HL/DM 3000K	Direct Linear Ambient Luminaires	7546	112.13	67.3	3146	83.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Jiangsu Ever-Tie Lighting Co. Ltd	Ever-tie	ETLSN-4FT/HL/DM 3000K	Direct Linear Ambient Luminaires	3582.1	110.52	32.41	3133	82.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Jiangsu Ever-Tie Lighting Co. Ltd	Ever-tie	ETLVP-4FT/HL/DM 3000K	Direct Linear Ambient Luminaires	6837.4	123.99	55.14	3083	82	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Jiangsu Ever-Tie Lighting Co. Ltd	Ever-tie	ETLVP-4FT/LW/DM 3000K	Direct Linear Ambient Luminaires	4670.9	119.24	39.17	3094	82	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Jiangsu Ever-Tie Lighting Co. Ltd	Ever-tie	ETLWRAP-4FT/LW/DM 3000K	Direct Linear Ambient Luminaires	4512.1	115.07	39.21	3107	81.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Jiangsu Ever-Tie Lighting Co. Ltd	Ever-tie	ETLSRK-4FT/LW/DM 5000K	Direct Linear Ambient Luminaires	2473.12	111.15	22.25	5228	83.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Jiangsu Ever-Tie Lighting Co. Ltd	Ever-tie	ETLSRK-4FT/HL/DM 5000K	Direct Linear Ambient Luminaires	3655.32	112.58	32.47	5214	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Jiangsu Ever-Tie Lighting Co. Ltd	Ever-tie	ETLSN-4FT/40/DM 4000K	Direct Linear Ambient Luminaires	4336.3	113.2	38.3	4177	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Jiangsu Ever-Tie Lighting Co. Ltd	Ever-tie	ETLB7-4FT/6L/320/DM/FL 4000K	High-Bay Luminaires for Commercial and Industrial Buildings	37301	116.8	319.2	4189	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Jiangsu Ever-Tie Lighting Co. Ltd	Ever-tie	ETLB7-4FT/4L/220/DM/FL 4000K	High-Bay Luminaires for Commercial and Industrial Buildings	25161	117.1	214.9	4197	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Jiangsu Ever-Tie Lighting Co. Ltd	Ever-tie	ETLB7-2FT/4L/110/DM/FL 4000K	High-Bay Luminaires for Commercial and Industrial Buildings	12282	115.2	106.6	4092	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Jiangsu Ever-Tie Lighting Co. Ltd	Ever-tie	ETLB7-2FT/6L/160/DM/FL 4000K	High-Bay Luminaires for Commercial and Industrial Buildings	18520	116.7	158.7	4121	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Jiangsu Ever-Tie Lighting Co. Ltd	Ever-tie	ETLSN-8FT/LW/DM 3500K	Low-Bay Luminaires for Commercial and Industrial Buildings	4655.01	116.38	40	3485	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Jiangsu Ever-Tie Lighting Co. Ltd	Ever-tie	ETLSN-8FT/HL/DM 3500K	Low-Bay Luminaires for Commercial and Industrial Buildings	7573.9	113.21	66.9	3492	83.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Juno Lighting, LLC	Juno	ALXA245KE34XX[5C, TLP, H, EM, WCR, and DSP]ALXLED16D	High-Bay Luminaires for Commercial and Industrial Buildings	23300	110.19	211.44	5204	74.19	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Kumho Electric	earthcare	FL/T8-32W/12W DC 410	2-lamp External driver Lamp-style retrofit kits (UL Type C)	1715.46	158	10.84	4254	81	5			Continuous (Can dim down to ≤ 10% (W))	Tier I
LED Rite, LLC	LEDrite	TR4440220HIB2F	High-Bay Luminaires for Commercial and Industrial Buildings	25161	117.1	214.9	4197	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
LED Rite, LLC	LEDrite	TR2440105HIB2F	High-Bay Luminaires for Commercial and Industrial Buildings	12282	115.2	106.6	4092	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
LED Rite, LLC	LEDrite	TR2640160HIB2F	High-Bay Luminaires for Commercial and Industrial Buildings	18520	116.7	158.7	4121	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Leotek Electronics USA, LLC	Leotek Electronics USA LLC	[PEs1 or ES1]-24H-MV-NW-FT-XX-530	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	4548	104.8	43.4	4140	73	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Leotek Electronics USA, LLC	Leotek Electronics USA LLC	[PEs1 or ES1]-24H-MV-WW-W-XX-350 [120V ONLY]	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	2960.5	106	27.86	3111	73	10			Continuous (Can dim down to ≤ 10% (W))	Tier II
Leotek Electronics USA, LLC	Leotek Electronics USA LLC	[PEs1 or ES1]-24H-MV-CW-FT-XX-530	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	4954.8	116	42.77	4973	74	10			Continuous (Can dim down to ≤ 10% (W))	Tier II
Leotek Electronics USA, LLC	Leotek Electronics	[EC or PEC]1-4M2-MV-WW-2-XX-350 [120V Only]	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	2098	104.4	20.1	2960	72	10			Continuous (Can dim down to ≤ 10% (W))	Tier II
Leotek Electronics USA, LLC	Leotek Electronics	[EC or PEC]1-6M2-MV-WW-2-XX-350 [120V Only]	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	2882	101.8	28.3	2940	72	10			Continuous (Can dim down to ≤ 10% (W))	Tier II
Leotek Electronics USA, LLC	Leotek Electronics USA, LLC	GCM1-30F-MV-WW-3-XX-350 [120V ONLY]	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	4024.4	112	35.9	2923	72	10			Continuous (Can dim down to ≤ 10% (W))	Tier II
Leotek Electronics USA, LLC	Leotek Electronics	[EC or PEC]3-10M2-MV-WW-2-XX-350	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	4709	113.7	41.4	2940	73	10			Continuous (Can dim down to ≤ 10% (W))	Tier II
Leotek Electronics USA, LLC	Leotek Electronics	[EC or PEC]3-10M2-MV-WW-2-XX-530	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	6825	107.8	63.3	2980	72	10			Continuous (Can dim down to ≤ 10% (W))	Tier II
Leotek Electronics USA, LLC	Leotek Electronics	GCL1-60G-MV-WW-2S-XX-350	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	8463	123.3	68.65	3066	70.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Leotek Electronics USA, LLC	Leotek Electronics	GCL1-60G-MV-CW-2S-XX-700	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	16250	110	147.8	5153	71	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Leotek Electronics USA, LLC	Leotek Electronics	GCL1-80G-MV-WW-2S-XX-350	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	10870	128.5	84.59	3051	71.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Leotek Electronics USA, LLC	Leotek Electronics	GCL1-80G-MV-CW-2S-XX-700	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires									Continuous (Can dim down to ≤ 10% (W))	Tier II
Lighting Science Group, Corp	Lighting Science	LSPro 16 50WE NW FL BX	MR16	71.8	8	4000	95	5		40	81	Dimmable	Tier I
Lighting Science Group, Corp	Lighting Science	LSPro 16 50WE NW NFL BX	MR16	71.8	8	4000	95	5		25	81	Dimmable	Tier I
Lighting Science Group, Corp	Lighting Science	LSPro 16 50WE W27 FL BX	MR16	67.9	8	2700	93	5		40	59	Dimmable	Tier I
Lighting Science Group, Corp	Lighting Science	LSPro 16 50WE W27 NFL BX	MR16	67.9	8	2700	93	5		25	59	Dimmable	Tier I
Lighting Science Group, Corp	Lighting Science	LSPro 16 35WE CW FL BX	MR16	75.2	6	5000	96	5		40	89	Dimmable	Tier I
Lighting Science Group, Corp	Lighting Science	LSPro 16 35WE CW NFL BX	MR16	75.2	6	5000	96	5		25	89	Dimmable	Tier I
Lighting Science Group, Corp	Lighting Science	LSPro 16 35WE NW FL BX	MR16	73.9	6	4000	94	5		40	80	Dimmable	Tier I
Lighting Science Group, Corp	Lighting Science	LSPro 16 35WE NW NFL BX	MR16	73.9	6	4000	94	5		25	80	Dimmable	Tier I
Lighting Science Group, Corp	Lighting Science	LSPro 16 35WE W27 FL BX	MR16	67.6	6	2700	93	5		40	59	Dimmable	Tier I
Lighting Science Group, Corp	Lighting Science	LSPro 16 35WE W27 NFL BX	MR16	67.6	6	2700	93	5		25	59	Dimmable	Tier I
Lighting Science Group, Corp	Lighting Science	LSPro 16 50WE CW FL BX	MR16	71.7	8	5000	96	5		40	91	Dimmable	Tier I
Lighting Science Group, Corp	Lighting Science	LSPro 16 50WE CW NFL BX	MR16	71.7	8	5000	96	5		25	91	Dimmable	Tier I
Lighting Science Group, Corp	Lighting Science	LSpro 16 50WE CW NFL GU10 120 BX	PAR16	81	8	5000	96	5		25	92	Dimmable	Tier I
Lighting Science Group, Corp	Lighting Science	LSpro 16 50WE NW FL GU10 120 BX	PAR16	75	8	4000	94	5		40	79	Dimmable	Tier I
Lighting Science Group, Corp	Lighting Science	LSpro 16 50WE NW NFL GU10 120 BX	PAR16	75	8	4000	94	5		25	79	Dimmable	Tier I

Manufacturer	Brand	Model Number	LED Type	Light Output (Lumens)	Efficacy (lumens per Watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016 Tier Level (LEDA)
Lighting Science Group, Corp	Lighting Science	LSPro 16 50WE WW FL GU10 120 BX	PAR16	519	75.8	8	3000	92	5	40	58	Dimmable	Tier I
Lighting Science Group, Corp	Lighting Science	LSpro 16 50WE WW NFL GU10 120 BX	PAR16		75.8	8	3000	92	5	25	58	Dimmable	Tier I
Lighting Science Group, Corp	Lighting Science	LSPro 16 50WE WW NFL E26 120 BX	PAR16	500	82	8	4000	94	5	25	79	Dimmable	Tier I
Lighting Science Group, Corp	Lighting Science	LSPro 16 50WE CW FL E26 120 BX	PAR16	500	84	8	5000	96	5	40	92	Dimmable	Tier I
Lighting Science Group, Corp	Lighting Science	LSPro 16 50WE CW NFL E26 120 BX	PAR16	500	84	8	5000	96	5	25	92	Dimmable	Tier I
Lighting Science Group, Corp	Lighting Science	LSPro 16 50WE WW FL E26 120 BX	PAR16	500	82	8	4000	94	5	40	79	Dimmable	Tier I
Lighting Science Group, Corp	Lighting Science	LSPro 16 50WE W27 FL E26 120 BX	PAR16	480	77	8	2700	91	5	40	55	Dimmable	Tier I
Lighting Science Group, Corp	Lighting Science	LSPro 16 50WE W27 NFL E26 120 BX	PAR16	480	77	8	2700	91	5	25	55	Dimmable	Tier I
Lighting Science Group, Corp	Lighting Science	LSPro 16 50WE WW FL E26 120 BX	PAR16	500	80	8	3000	93	5	40	65	Dimmable	Tier I
Lighting Science Group, Corp	Lighting Science	LSPro 16 50WE WW NFL E26 120 BX	PAR16	500	80	8	3000	93	5	25	65	Dimmable	Tier I
Lighting Science Group, Corp	Lighting Science	LSPro 16 35WE CW FL E26 120 BX	PAR16		78.7	6	5000	92	5	40	78	Dimmable	Tier I
Lighting Science Group, Corp	Lighting Science	LSPro 16 35WE CW FL E26 BX	PAR16		78.7	6	5000	92	5	40	78	Dimmable	Tier I
Lighting Science Group, Corp	Lighting Science	LSPro 16 35WE CW FL GU10 120 BX	PAR16		81.6	6	5000	95	5	40	90	Dimmable	Tier I
Lighting Science Group, Corp	Lighting Science	LSPro 16 35WE CW NFL E26 120 BX	PAR16		78.7	6	5000	92	5	25	78	Dimmable	Tier I
Lighting Science Group, Corp	Lighting Science	LSPro 16 35WE CW NFL E26 BX	PAR16		78.7	6	5000	92	5	25	78	Dimmable	Tier I
Lighting Science Group, Corp	Lighting Science	LSPro 16 35WE CW NFL GU10 120 BX	PAR16		81.6	6	5000	95	5	25	90	Dimmable	Tier I
Lighting Science Group, Corp	Lighting Science	LSPro 16 35WE WW FL E26 120 BX	PAR16		74.8	6	4000	93	5	40	79	Dimmable	Tier I
Lighting Science Group, Corp	Lighting Science	LSPro 16 35WE WW FL E26 BX	PAR16		74.8	6	4000	93	5	40	79	Dimmable	Tier I
Lighting Science Group, Corp	Lighting Science	LSPro 16 35WE WW FL GU10 120 BX	PAR16		74.8	6	4000	94	5	40	79	Dimmable	Tier I
Lighting Science Group, Corp	Lighting Science	LSPro 16 35WE WW NFL E26 120 BX	PAR16		74.8	6	4000	93	5	25	79	Dimmable	Tier I
Lighting Science Group, Corp	Lighting Science	LSPro 16 35WE WW NFL E26 BX	PAR16		74.8	6	4000	93	5	25	79	Dimmable	Tier I
Lighting Science Group, Corp	Lighting Science	LSPro 16 35WE WW NFL GU10 120 BX	PAR16		74.8	6	4000	94	5	25	79	Dimmable	Tier I
Lighting Science Group, Corp	Lighting Science	LSPro 16 35WE WW FL E26 120 BX	PAR16		76	6	3000	91	5	40	69	Dimmable	Tier I
Lighting Science Group, Corp	Lighting Science	LSPro 16 35WE WW FL E26 BX	PAR16		76	6	3000	91	5	40	69	Dimmable	Tier I
Lighting Science Group, Corp	Lighting Science	LSPro 16 35WE WW FL GU10 120 BX	PAR16		75.5	6	3000	94	5	40	79	Dimmable	Tier I
Lighting Science Group, Corp	Lighting Science	LSPro 16 35WE WW NFL E26 120 BX	PAR16		76	6	3000	91	5	25	69	Dimmable	Tier I
Lighting Science Group, Corp	Lighting Science	LSPro 16 35WE WW NFL E26 BX	PAR16		76	6	3000	91	5	25	69	Dimmable	Tier I
Lighting Science Group, Corp	Lighting Science	LSPro 16 35WE WW NFL GU10 120 BX	PAR16		75.5	6	3000	92	5	25	59	Dimmable	Tier I
Lighting Science Group, Corp	Lighting Science	LSpro 16 50WE CW FL GU10 120 BX	PAR16		81	8	5000	96	5	40	92	Dimmable	Tier I
Lighting Science Group, Corp	Lighting Science	LSPro 30 75WE CW FL 120 BX	PAR30		78	14	5000	91	5	40	70	Dimmable	Tier I
Lighting Science Group, Corp	Lighting Science	LSPro 30 75WE CW NFL 120 BX	PAR30		78	14	5000	91	5	25	70	Dimmable	Tier I
Lighting Science Group, Corp	Lighting Science	LSPro 30 75WE WW FL 120 BX	PAR30		72.2	14	4000	95	5	40	81	Dimmable	Tier I
Lighting Science Group, Corp	Lighting Science	LSPro 30 75WE WW NFL 120 BX	PAR30		72	14	4000	95	5	25	81	Dimmable	Tier I
Lighting Science Group, Corp	Lighting Science	LSPro 38 120WE CW FL 120 BX	PAR38		73.8	19	5000	92	5	40	68	Dimmable	Tier I
Lighting Science Group, Corp	Lighting Science	LSPro 38 120WE CW NFL 120 BX	PAR38		73.8	19	5000	92	5	25	68	Dimmable	Tier I
Lighting Science Group, Corp	Lighting Science	LSPro 38 120WE WW FL 120 BX	PAR38		74	19	4000	91	5	40	68	Dimmable	Tier I
Lighting Science Group, Corp	Lighting Science	LSPro 38 120WE WW NFL 120 BX	PAR38	1358	74	19	4000	91	5	25	68	Dimmable	Tier I
Linmore LED Labs	Linmore LED	LL-T8-4-1-ED-F-40K	2-lamp External driver Lamp-style retrofit kits (UL Type C)	1874.78	133	14.1	3364	83	10			Continuous (Can dim down to ≤ 10% (W))	Tier I
Linmore LED Labs	Linmore LED	LL-T8-4-2-ED-F-35K-36W	2-lamp External driver Lamp-style retrofit kits (UL Type C)	1697.23	133	12.8	3400	83	10			Continuous (Can dim down to ≤ 10% (W))	Tier I
Linmore LED Labs	Linmore LED	LL-T8-4-1-ED-F-35K-18W	2-lamp External driver Lamp-style retrofit kits (UL Type C)	2156.6	132	16.36	3398	83	10			Continuous (Can dim down to ≤ 10% (W))	Tier I
Linmore LED Labs	Linmore LED	LL-T8-4-1-ED-F-35K-22W	2-lamp External driver Lamp-style retrofit kits (UL Type C)	2868.37	127	22.57	3400	83	10			Continuous (Can dim down to ≤ 10% (W))	Tier I
Linmore LED Labs	Linmore LED	LL-T8-4-1-ED-C-35K	2-lamp External driver Lamp-style retrofit kits (UL Type C)	2037.74	144	14.11	3376	82	10			Continuous (Can dim down to ≤ 10% (W))	Tier I
Linmore LED Labs	Linmore LED	LL-T8-4-2-ED-C-35K	2-lamp External driver Lamp-style retrofit kits (UL Type C)	1744.05	140	12.44	3376	82	10			Continuous (Can dim down to ≤ 10% (W))	Tier I
Liteline Corporation	Liteline	G4-MR16LED7W-27K-ES	MR16		67.9	7.4	2700	94	5	38	62	Dimmable	Tier I
Liteline Corporation	Liteline	G4-MR16LED7W-30K-ES	MR16		68.6	7.3	3000	95	5	33	70	Dimmable	Tier I
Liteline Corporation	Liteline	G4-P20LED7W-40KFL-ES	PAR20	500	71.4	7	4000	92	5	40	60	Dimmable	Tier I
Liteline Corporation	Liteline	G4-P20LED7W-40KSP-ES	PAR20	500	71.4	7	4000	92	5	25	60	Dimmable	Tier I
Liteline Corporation	Liteline	G4-P30SLED10W-30KFES	PAR30		76.4	10.5	3000	90	5	40	48	Dimmable	Tier I
Liteline Corporation	Liteline	G4-P30SLED10W-30KSES	PAR30		76.4	10.5	3000	90	5	25	48	Dimmable	Tier I
Liteline Corporation	Liteline	G4-P30SLED10W-40KFES	PAR30		78.2	10.5	4000	93	5	40	61	Dimmable	Tier I
Liteline Corporation	Liteline	G4-P30SLED10W-40KSES	PAR30		78.2	10.5	4000	93	5	25	61	Dimmable	Tier I
Liteline Corporation	Liteline	G4-P30LLED10W-30KFES	PAR30L		80	10	3000	91	5	40	52	Dimmable	Tier I
Liteline Corporation	Liteline	G4-P30LLED10W-30KSES	PAR30L		80	10	3000	91	5	25	52	Dimmable	Tier I
Liteline Corporation	Liteline	G4-P30LLED10W-40KFES	PAR30L		82	10	4000	92	5	40	52	Dimmable	Tier I
Liteline Corporation	Liteline	G4-P30LLED10W-40KSES	PAR30L		82	10	4000	92	5	25	52	Dimmable	Tier I
Liteline Corporation	Liteline	G4-P38LED17W-30KFLES	PAR38		70.6	17	3000	92	5	40	53	Dimmable	Tier I
Liteline Corporation	Liteline	G4-P38LED17W-30KSPES	PAR38		70.6	17	3000	92	5	25	53	Dimmable	Tier I
Liteline Corporation	Liteline	G4-P38LED17W-40KFLES	PAR38		71.8	17	4000	93	5	40	65	Dimmable	Tier I
Liteline Corporation	Liteline	G4-P38LED17W-40KSPES	PAR38		71.8	17	4000	93	5	25	65	Dimmable	Tier I
Los Angeles Lighting Mfg. Co.	Los Angeles Lighting Mfg. Co.	3-WSE201-8K-4L-xxxxx-xxxx-1DRDM-UNV-1/840	Direct Linear Ambient Luminaires	7588	116.3	64.99	4105	84.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Los Angeles Lighting Mfg. Co.	LA Lighting	3-WHO200-4K-4L-DRP3-1DRDM-UNV-2/840	Direct Linear Ambient Luminaires	3851.74	117	33.05	4109	84	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Los Angeles Lighting Mfg. Co.	LA Lighting	3-WBE200-4K-4L-DRP3-1DRDM-UNV-2/840	Direct Linear Ambient Luminaires	3851.74	117	33.05	4109	84	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Los Angeles Lighting Mfg. Co.	LA Lighting	3-WCP200-4K-4L-DRP3-WL-1DRDM-UNV-2/840	Direct Linear Ambient Luminaires	3851.74	117	33.05	4109	84	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Los Angeles Lighting Mfg. Co.	LA Lighting	3-WCP200-4K-4L-DRP3-1DRDM-UNV-2/840	Direct Linear Ambient Luminaires	3851.74	117	33.05	4109	84	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Los Angeles Lighting Mfg. Co.	LA Lighting	3-WBE200-8K-8L-DRP3-1DRDM-UNV-2/840 [All Electrical Options Qualified]	Direct Linear Ambient Luminaires	7665.98	118.9630664	64.44	4109	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Los Angeles Lighting Mfg. Co.	LA Lighting	3-WCP200-8K-8L-DRP3-1DRDM-UNV-2/840	Direct Linear Ambient Luminaires	7665.98	118.9630664	64.44	4109	84	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Los Angeles Lighting Mfg. Co.	Los Angeles Lighting Mfg.Co.	4-CIT200-4K-4L-DRRLFR-XXX-XXXX-1DRDM-UNV-1/850	Direct Linear Ambient Luminaires	3851	110	35.02	5151	83.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Los Angeles Lighting Mfg. Co.	Los Angeles Lighting Mfg. Co.	2-EBY150-24K-4L-CA-2DRDM-UNV-3/850	High-Bay Luminaires for Commercial and Industrial Buildings	22420.4	117.8	190.29	5158	83.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Los Angeles Lighting Mfg. Co.	Los Angeles Lighting Mfg. Co.	2-EBY150-24K-4L-XX-2DRDM-UNV-3/850	High-Bay Luminaires for Commercial and Industrial Buildings	24402.4	127.7	191.06	5104	83.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Los Angeles Lighting Mfg. Co.	Los Angeles Lighting Mfg. Co.	2-EBY350-24K-4L-CA-2DRDM-UNV-3/850	High-Bay Luminaires for Commercial and Industrial Buildings	23773.8	123.8	192.67	5082	84.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Los Angeles Lighting Mfg. Co.	Los Angeles Lighting Mfg. Co.	2-EBY350-24K-4L-XX-2DRDM-UNV-3/850	High-Bay Luminaires for Commercial and Industrial Buildings	25227.2	130.4	193.51	5050	84.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Los Angeles Lighting Mfg. Co.	Los Angeles Lighting Mfg. Co.	2-EBY350-24K-4L-PA-2DRDM-UNV-3/850	High-Bay Luminaires for Commercial and Industrial Buildings	22388.6	116.2	192.7	5076	84.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Los Angeles Lighting Mfg. Co.	Los Angeles Lighting Mfg. Co.	2-EBY150-16K-4L-CA-XXXX-XXXX-2DRDM-UNV-2/850	High-Bay Luminaires for Commercial and Industrial Buildings	14455.3	110.5	130.8	5046	83.36	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Los Angeles Lighting Mfg. Co.	Los Angeles Lighting Mfg. Co.	2-EBY150-16K-4L-XX-XXXX-XXXX-2DRDM-UNV-2/850	High-Bay Luminaires for Commercial and Industrial Buildings	15554.6	118.6	131.2	5046	83.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II

Manufacturer	Brand	Model Number	LED Type	Light Output (lumens)	Efficacy (lumens per Watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016 Tier Level (LEDA)
Los Angeles Lighting Mfg. Co.	Los Angeles Lighting Mfg.Co.®	1-HBN200-24K-4L-2DRDM-UNV-3/850 [Excluding wire guard]	High-Bay Luminaires for Commercial and Industrial Buildings	23850	125	190.8	5096	83.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Los Angeles Lighting Mfg. Co.	LOS ANGELES LIGHTING	1-HBN100-16K-4L-2DRDM-UNV-2/850 [Excluding Wire Guard]	High-Bay Luminaires for Commercial and Industrial Buildings	15404.9	117.4	131.23	5009	83.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Los Angeles Lighting Mfg. Co.	Los Angeles Lighting Mfg. Co.	2-HBE600-24K-4L-PA2-xxx-xxxx-2DRDM-UNV-3/840	High-Bay Luminaires for Commercial and Industrial Buildings	21500	113	189.6	4177	84.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Los Angeles Lighting Mfg. Co.	Los Angeles Lighting	4-CIT400-24K-4L-DRFA-2DRDM-UNV-3/840	High-Bay Luminaires for Commercial and Industrial Buildings	22669.12	117	193.21	3992	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Los Angeles Lighting Mfg. Co.	Los Angeles Lighting	4-CIT400-24K-4L-DRCA-2DRDM-UNV-3/850	High-Bay Luminaires for Commercial and Industrial Buildings	23230.81	121	192.07	5162	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Los Angeles Lighting Mfg. Co.	Los Angeles Lighting	4-CIT400-16K-4L-DRCA-2DRDM-UNV-2/850	High-Bay Luminaires for Commercial and Industrial Buildings	15750.1	119	131.86	5126	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Los Angeles Lighting Mfg. Co.	Los Angeles Lighting	4-CIT400-16K-4L-DRFA-2DRDM-UNV-2/840	High-Bay Luminaires for Commercial and Industrial Buildings	15640.95	117	133.38	4008	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Louvers International Inc	Louvers LED	AHM-150-4K-U-D-X-D	High-Bay Luminaires for Commercial and Industrial Buildings	18903	125.5	151	4270	86	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Louvers International Inc	Louvers LED	AHM-250-4K-U-D-X-D	High-Bay Luminaires for Commercial and Industrial Buildings	30819	124.2	248	4280	86	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Louvers International Inc	Louvers LED	AHM-70-5K-U-N-X-D	Low-Bay Luminaires for Commercial and Industrial Buildings	8845	126.2	70.1	5260	83	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Louvers International Inc	Louvers LED	AHM-70-4K-U-D-X-D	Low-Bay Luminaires for Commercial and Industrial Buildings	8529	124.9	68.3	4420	86	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
LSI Industries	INTERIOR	AUL S LED SS CW8 XX ACS22	High-Bay Luminaires for Commercial and Industrial Buildings	17525	133	131.7	5270	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
LSI Industries	INTERIOR	AUL S LED SS WW XX ACS22CPA	High-Bay Luminaires for Commercial and Industrial Buildings	15489	118	131.5	3521	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
LucidLED	T5Knockout	T5KOLED-18000-40K-X-X-D	High-Bay Luminaires for Commercial and Industrial Buildings	18903	125.5	151	4270	86	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
LucidLED	T5Knockout	T5KOLED-30000-40K-X-X-D	High-Bay Luminaires for Commercial and Industrial Buildings	30819	124.2	248	4280	86	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
LucidLED	T5Knockout	T5KOLED-9000-50K-X-X-N	Low-Bay Luminaires for Commercial and Industrial Buildings	8845	126.2	70.1	5260	83	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
LucidLED	T5Knockout	T5KOLED-9000-40K-X-X-D	Low-Bay Luminaires for Commercial and Industrial Buildings	8529	124.9	68.3	4420	86	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Lumecon LLC	Lumecon	LF-MD-15-DB-ST-1-NW-A-X-X-X-X	Architectural Flood and Spot Luminaires	1507	105.7	14.26	4111	82.3	10			Continuous (Can dim down to ≤ 10% (W))	Tier II
Lumecon LLC	Lumecon	LF-MD-15-DB-NR-1-NW-[All Mounting Options]-X-X-[PC1, PC2, or X]-X	Architectural Flood and Spot Luminaires	1509	111.69	13.51	3752	72.77	10			Continuous (Can dim down to ≤ 10% (W))	Tier II
Lumecon LLC	Lumecon	LF-MD-25-DB-NR-1-NW-[All Mounting Options]-X-X-[PC1, PC2, or X]-X	Architectural Flood and Spot Luminaires	2401.8	103.39	23.23	3830	73.17	10			Continuous (Can dim down to ≤ 10% (W))	Tier II
Lumecon LLC	Lumecon	LF-RB-25-DB-NR-1-NW-[All Mounting Options]-X-X-X-[PC1, PC2, or X]-X	Architectural Flood and Spot Luminaires	2485.42	107.46	23.13	3811	73.14	10			Continuous (Can dim down to ≤ 10% (W))	Tier II
Lumecon LLC	Lumecon	LF-LG-60-DB-NR-1-NW-SB-X-X-X-X-X [120V Only]	Architectural Flood and Spot Luminaires	6105.63	111.8	54.61	3829	73.32	10			Continuous (Can dim down to ≤ 10% (W))	Tier II
Lumecon LLC	Lumecon	LF-LG-60-DB-ST-1-NW-[All Mounting Methods]-X-X-X-X-X	Architectural Flood and Spot Luminaires	7061	113.7	62.11	4097	80.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Lumecon LLC	Lumecon	LF-RB-60-DB-NR-1-NW-[All Mounting Options]-X-X-[PC1, PC2, or X]-X [120V ONLY]	Architectural Flood and Spot Luminaires	5700.97	105.18	54.2	3870	73.41	10			Continuous (Can dim down to ≤ 10% (W))	Tier II
Lumecon LLC	Lumecon Workman Series High Bay	LWS-HB-150-D2-1-NW-[ALL MOUNTING]-X-[X, All Plugs]-[X,OC1,OC3]-[5,10]-[X,S]	High-Bay Luminaires for Commercial and Industrial Buildings	18903	125.5	151	4270	86	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Lumecon LLC	Lumecon Workman Series High Bay	LWS-HB-240-D3-1-NW-[ALL MOUNTING]-X-[X, All Plugs]-[X,OC1,OC3]-[5,10]-[X,S]	High-Bay Luminaires for Commercial and Industrial Buildings	30819	124.2	248	4280	86	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Lumecon LLC	Lumecon	LWS-HB-120-D2-1-CW-[All Mounting Methods]-X-[All Plugs]-[X, OC1, OC3]-[5,10]-[X,S]	High-Bay Luminaires for Commercial and Industrial Buildings	15930	136.51	116.69	4177	84.82	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Lumecon LLC	Lumecon Workman Series High Bay	LWS-HB-70-D1-1-NW-[ALL MOUNTING]-X-[X, All Plugs]-[X,OC1,OC3]-[5,10]-[X,S]	Low-Bay Luminaires for Commercial and Industrial Buildings	8529	124.9	68.3	4420	86	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Lumecon LLC	Lumecon Workman Series High Bay	LWS-HB-70-X-1-CW-[ALL MOUNTING]-X-[X, All Plugs]-[X,OC1,OC3]-[5,10]-[X,S]	Low-Bay Luminaires for Commercial and Industrial Buildings	8845	126.2	70.1	5260	83	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Lumecon LLC	Lumecon	LWP-FC-25-DB-ST-W-1-C-NW-X-X-X-X-X-D	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	2278	100.1	22.88	4145	80.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Lumecon LLC	Lumecon	LWP-SA-25-DB-1-NW-C-[All Mounting Options]-X-X-X-X-X	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	2578	101.6	25.34	4097	80.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Lumecon LLC	Lumecon	LWP-QM-25-DB-1-NW-X-X-X-X-X	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	2471	107.3	23.02	4051	80.3	10			Continuous (Can dim down to ≤ 10% (W))	Tier II
Lumecon LLC	Lumecon	LWP-FC-25-DB-WD-[W, V]-1-C-NW-X-X-X-[X, PC1, PC2]-[X, OC1, OC2]-X	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	2446	104.4	23.43	4044	73.4	10			Continuous (Can dim down to ≤ 10% (W))	Tier II
Lumecon LLC	Lumecon	LWP-FC-WD-MN-25-DB-WD-1-NW-X-X-[PC1, PC2, or X]-X	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	2343	100.3	23.36	4062	73.2	10			Continuous (Can dim down to ≤ 10% (W))	Tier II
Lumecon LLC	Lumecon	LWP-FC-WD-MN-15-DB-WD-1-NW-X-X-[PC1, PC2, or X]-X	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	1433	106.6	13.45	4018	73.3	10			Continuous (Can dim down to ≤ 10% (W))	Tier II
Lumecon LLC	Lumecon	LWP-LA-60-DB-1-NW-[X,SB,AS,AR]-X-X-X-X-X	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	6934	111.9	61.98	4142	80.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Lumecon LLC	Lumecon	LAL-SB-60-DB-T3-1-NW-[All Mounting Options]-X-X-X-X-X	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	5772	105.5	54.69	4117	73.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Lumlight LLC	Lumlight	L-TY50DX	Architectural Flood and Spot Luminaires	5335.4	105.15	50.74	4080	84.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Luminance	L7531-1	PAR30L		800	80	10	3000	91	5	40	52	Dimmable	Tier I
LUX Technology Group	LUX Technology Group	LA19T0E26D09-27KH	A19	800	84.2	9.5	2700	91	5			Dimmable	Tier I
LUX Technology Group	LUX Technology Group	LA19T0E26D09-30KH	A19	800	84.2	9.5	3000	92	5			Dimmable	Tier I
LUX Technology Group	LUX	LMR16JCGU53D07-27KFH	MR16	500	67.6	7.4	2700	94	5	38	62	Dimmable	Tier I
LUX Technology Group	LUX	LMR16JCGU53D07-27KNH	MR16	500	67.6	7.4	2700	94	5	25	62	Dimmable	Tier I
LUX Technology Group	LUX	LMR16JCGU53D07-30KFH	MR16	500	68.5	7.3	3000	95	5	38	70	Dimmable	Tier I
LUX Technology Group	LUX	LMR16JCGU53D07-30KNH	MR16	500	68.5	7.3	3000	95	5	25	70	Dimmable	Tier I
LUX Technology Group	LUX Technology Group	LP30XE26D10-27KFH	PAR30	800	80	10	2700	91	5	40	50	Dimmable	Tier I
LUX Technology Group	LUX Technology Group	LP30XE26D10-30KFH	PAR30	800	80	10	3000	91	5	40	52	Dimmable	Tier I
LUX Technology Group	LUX Technology Group	LP38XE26D17-27KFH	PAR38	1200	70.6	17	2700	91	5	40	48	Dimmable	Tier I
LUX Technology Group	LUX Technology Group	LP38XE26D17-30KFH	PAR38	1200	70.6	17	3000	92	5	40	53	Dimmable	Tier I
Maxlite	MaxLED	9.5A19DLE0927/G2	A19	800	84.2	9.5	2700	91	5		57	Dimmable	Tier I
Maxlite	MaxLED	9.5A19DLE0930/G2	A19	800	84.2	9.5	3000	92	5		65	Dimmable	Tier I
Maxlite, Inc	Maxlite	WPCS30AU50[B,W]	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	3027.8	117.8	25.71	5240	82.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Maxlite, Inc	Maxlite	WPCS20AU50[B,W]	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	2195.7	116.4	18.86	5254	83.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II

Manufacturer	Brand	Model Number	LED Type	Light Output (Lumens)	Efficacy (lumens per Watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016 Tier Level (LEDA)
MaxLite, Inc	Maxlite	WPCL40AU50[B,W]	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	4477.7	116.2	38.53	5265	83.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
MaxLite, Inc	Maxlite	WPCL55AU50[B,W]	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	6122.9	116.5	52.54	5257	82.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Medinah Power	Medinah	MED-DCL545-50-XX	Architectural Flood and Spot Luminaires	5335.4	105.15	50.74	4080	84.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Mester LED Limited	Mester	MR0730KCLBWU	MR16	500	71.4	7	3000	94	5	40	71	Dimmable	Tier I
Mester LED Limited	Mester	GU0727KCLBWU	PAR16	500	71.4	7	2700	90	5	40	48	Dimmable	Tier I
Mester LED Limited	Mester	GU0727KCLCWU	PAR16	500	70.7	7.1	2700	91	5	40	52	Dimmable	Tier I
Mester LED Limited	Mester	GU0730KCLBWU	PAR16	500	71.4	7	3000	93	5	40	62	Dimmable	Tier I
Mester LED Limited	Mester	GU0730KCLCWU	PAR16	500	70.6	7.1	3000	93	5	40	61	Dimmable	Tier I
Mester LED Limited	Mester	GU0730KCLFYU	PAR16	500	70.6	7.1	3000	93	5	40	61	Dimmable	Tier I
Mester LED Limited	Mester	P10727KCLBWU	PAR16	500	71.4	7	2700	90	5	40	48	Dimmable	Tier I
Mester LED Limited	Mester	P10730KCLBWU	PAR16	500	71.4	7	3000	93	5	40	62	Dimmable	Tier I
Metro LED	Metro LED	ML-HBD-150W	High-Bay Luminaires for Commercial and Industrial Buildings	18344	126.25	145.3	4100	74.9	6			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
MSI SSL	MSI LIGHTING INC.	zPAR30S272515H1D	PAR30	71	15	2700	95	5	75			Dimmable	Tier I
MSI SSL	MSI LIGHTING INC.	zPAR30S274015H1D	PAR30	72	15	2700	95	5	75			Dimmable	Tier I
MSI SSL	MSI LIGHTING INC.	zPAR30S301515H1D	PAR30	70	15	3000	95	5	79			Dimmable	Tier I
MSI SSL	MSI LIGHTING INC.	zPAR30S302515H1D	PAR30	75	15	3000	95	5	78			Dimmable	Tier I
MSI SSL	MSI LIGHTING INC.	zPAR30S304015H1D	PAR30	73	15	3000	95	5	78			Dimmable	Tier I
MSI SSL	MSI LIGHTING INC.	zPAR38272518H3N	PAR38	72	18	2700	94	5	74			Dimmable	Tier I
MSI SSL	MSI LIGHTING INC.	zPAR38274018H3N	PAR38	72	18	2700	95	5	75			Dimmable	Tier I
MSI SSL	MSI LIGHTING INC.	zPAR38301518H3N	PAR38	96	18	3000	95	5	78			Dimmable	Tier I
MSI SSL	MSI LIGHTING INC.	zPAR38301519H1D	PAR38	71	19	3000	95	5	78			Dimmable	Tier I
MSI SSL	MSI LIGHTING INC.	zPAR38302518H3N	PAR38	76	18	3000	95	5	78			Dimmable	Tier I
MSI SSL	MSI LIGHTING INC.	zPAR38302519H1D	PAR38	72	19	3000	95	5	79			Dimmable	Tier I
MSI SSL	MSI LIGHTING INC.	zPAR38304018H3N	PAR38	75	18	3000	95	5	78			Dimmable	Tier I
MSI SSL	MSI LIGHTING INC.	zPAR38304019H1D	PAR38	71	19	3000	95	5	79			Dimmable	Tier I
Nanjing JingZe Lighting Technology Co.,Ltd	NIZ	NIZ-SLA-50-NA-RL-T2	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	5501.563	110.12	49.96	3869	72.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Nanjing JingZe Lighting Technology Co.,Ltd	NIZ	NIZ-SLA-100-NA-RL-T2	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	11038.16	111.14	99.32	3873	72.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Neu-Tech LLC	Neu-Tech	NT-RT-320-4-HV-D	Retrofit Kits for High-Bay Luminaires for Commercial and Industrial Buildings	39314	121.15	324.5	4156	75.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Neu-Tech LLC	Neu-Tech	NT-RT-320-4-SV-D	Retrofit Kits for High-Bay Luminaires for Commercial and Industrial Buildings	44780	140.99	317.6	4156	75.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Neu-Tech LLC	Neu-Tech	NT-RT-120-4-SV-D	Retrofit Kits for High-Bay Luminaires for Commercial and Industrial Buildings	16648	143.59	115.9	4152	74.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Neu-Tech LLC	Neu-Tech	NT-RT-120-4-SV-D	Retrofit Kits for Large Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	15883	136.82	116.1	4146	74.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Neu-Tech LLC	Neu-Tech	NT-RT-45-4-SV-D	Retrofit Kits for Outdoor Full-Cutoff Wall-Mounted Area Luminaires	5949.6	124.62	47.74	4149	74.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Neu-Tech LLC	Neu-Tech	NT-RT-30-4-SV-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	3766.8	123.33	30.54	4136	74.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Neu-Tech LLC	Neu-Tech	NT-RT-45-4-SV-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	5770.4	125.43	46	4146	74.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Neu-Tech LLC	Neu-Tech	NT-RT-60-SV-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	8035.9	128.24	62.66	4149	74.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Neu-Tech LLC	Neu-Tech	NT-RT-350-4-HV-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	42639	118.3	358.2	4231	75.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Neu-Tech LLC	Neu-Tech	NT-RT-320-4-HV-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	39314	121.15	324.5	4154	75.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Neu-Tech LLC	Neu-Tech	NT-RT-280-4-SV-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	34857	122.24	285.1	4163	75.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Neu-Tech LLC	Neu-Tech	NT-RT-200-4-HV-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	26028	128.41	202.7	4156	74.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Neu-Tech LLC	Neu-Tech	NT-RT-280-4-HV-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	33832	120.52	280.7	4259	75	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Neu-Tech LLC	Neu-Tech	NT-RT-200-4-SV-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	26376	129.17	204.2	4141	74.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Neu-Tech LLC	Neu-Tech	NT-RT-150-4-HV-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	19514	129.34	150.9	4136	74.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Neu-Tech LLC	Neu-Tech	NT-RT-320-4-SV-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	40053	127.07	315.2	4152	75.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Neu-Tech LLC	Neu-Tech	NT-RT-120-4-HV-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	15606	132.39	117.9	4139	74.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Neu-Tech LLC	Neu-Tech	NT-RT-105-4-SV-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	14154	134.8	105	4159	74.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Neu-Tech LLC	Neu-Tech	NT-RT-350-4-SV-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	41649	116.15	358.6	4168	75.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Neu-Tech LLC	Neu-Tech	NT-RT-150-4-SV-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	20680	127.7	161.9	4154	74.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Nicor Inc.	NICOR LED	HBC-10-100W-UNV-40K-AL60	High-Bay Luminaires for Commercial and Industrial Buildings	12530	121.9	102.8	3995	82.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
NINGBO MORELUX LIGHTING MFG LTD	MORELUX	FL360-020W-40K-W66-6-D-XX-X	Architectural Flood and Spot Luminaires	2426.2	112.74	21.52	4065	71.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
NINGBO MORELUX LIGHTING MFG LTD	MORELUX	FL370-040W-40K-W66-6-D-XX-X	Architectural Flood and Spot Luminaires	5045.1	118.4	42.61	4041	72.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
NINGBO MORELUX LIGHTING MFG LTD	MORELUX	DCL-545-050W-40K-8-D-3XX	Architectural Flood and Spot Luminaires	5335.4	105.15	50.74	4080	84.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
OptoLight	OptoLight	OP-A19D5-10W-27	A19	800	80	10	2700	91	5		54	Dimmable	Tier I
OptoLight	OptoLight	OP-A19D5-12W-27	A19	1100	91.7	12	2700	92	5		57	Dimmable	Tier I
OptoLight	OptoLight	OP-A19DG30-10W-30	A19	800	76.9	10.4	3000	91	5		56	Dimmable	Tier I
Orion Energy Systems, Inc	Harris	HBHC1A2AAXXXFX840XX-XXXXXXX	High-Bay Aisle Luminaires	13900	124	111.7	4063	83.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Orion Energy Systems, Inc	Harris	HBHC1A2AAXXXFX850XX-XXXXXXX	High-Bay Aisle Luminaires	13780	123	111.7	5137	83.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Orion Energy Systems, Inc	Apollo	HBAC2C1AAAXXXFX840LCXX-XXXXXXX	High-Bay Aisle Luminaires	17600	115.5	152.4	4006	82.7	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Orion Energy Systems, Inc	Apollo	HBAC2A1AAUNVXXFX840LCXX-XXXXXXX	High-Bay Aisle Luminaires	11600	117.3	98.95	3993	82.5	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Orion Energy Systems, Inc	Apollo	HBAC2B2AAXXXFX840LPXX-XXXXXXX	High-Bay Aisle Luminaires	15090	118.4	127.4	4001	82.4	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Orion Energy Systems, Inc	ISON	HBIF2A1AAUNVFX830LCXX-XXXXXXX	High-Bay Aisle Luminaires	9319	128.7	72.41	3035	83.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II

Manufacturer	Brand	Model Number	LED Type	Light Output (lumens)	Efficacy (lumens per Watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016 Tier Level (LEDA)
Orion Energy Systems, Inc	ISON	HBIF2D1AAXXXFDX830LCOX-XXXXXXX	High-Bay Aisle Luminaires	18430	119.83	153.8	3063	83.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Orion Energy Systems, Inc	Harris	HBHC1C1AAXXXFDX830XX-XXXXXXX	High-Bay Aisle Luminaires	20970	122.13	171.7	3071	82	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Orion Energy Systems, Inc	Harris	HBHC1A1AAXXXFDX830XX-XXXXXXX	High-Bay Aisle Luminaires	10510	117.14	89.72	3068	82.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
OSRAM SYLVANIA	Sylvania	79056	PAR30	775	70.5	11	3500	93	5	15	63	Dimmable	Tier I
OSRAM SYLVANIA	Sylvania	79057	PAR30	786	71.4	11.1	3500	93	5	15	62	Dimmable	Tier I
Overdrive Electronics PVT. LTD.	Overdrive	637	PAR20	455	70	6.5	3000	91	5	40	56	Dimmable	Tier I
P.Q.L., Inc.	Superior Life®	51555	Direct Linear Ambient Luminaires	7546	112.13	67.3	3146	83.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
P.Q.L., Inc.	Superior Life®	55157	Direct Linear Ambient Luminaires	4670.9	119.24	39.17	3094	82	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
P.Q.L., Inc.	Superior Life®	55163	Direct Linear Ambient Luminaires	6837.4	123.99	55.14	3083	82	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
P.Q.L., Inc.	Superior Life	55135	Direct Linear Ambient Luminaires	4435.024	112.85	39.3	3088	83.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
P.Q.L., Inc.	Superior Life®	55202	High-Bay Luminaires for Commercial and Industrial Buildings	12282	115.2	106.6	4092	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
P.Q.L., Inc.	Superior Life®	55208	High-Bay Luminaires for Commercial and Industrial Buildings	18520	116.7	158.7	4121	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
P.Q.L., Inc.	Superior Life®	55213	High-Bay Luminaires for Commercial and Industrial Buildings	25161	117.1	214.9	4197	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
P.Q.L., Inc.	Superior Life	90414	High-Bay Luminaires for Commercial and Industrial Buildings	11689	122.81	95.18	4098	74.9	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
P.Q.L., Inc.	Superior Life®	83459	Retrofit Kits for Large Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	15883	136.82	116.1	4146	74.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
P.Q.L., Inc.	Superior Life®	83447	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	3766.8	123.33	30.54	4136	74.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
P.Q.L., Inc.	Superior Life®	83448	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	5770.4	125.43	46	4146	74.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
P.Q.L., Inc.	Superior Life®	83449	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	5862.5	123.54	47.46	4136	74.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
P.Q.L., Inc.	Superior Life®	83451	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	8035.9	128.24	62.66	4149	74.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
P.Q.L., Inc.	Superior Life®	83453	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	7888	133.84	58.94	4152	74.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
P.Q.L., Inc.	Superior Life®	83455	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	9871.6	132.79	74.34	4141	74.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
P.Q.L., Inc.	Superior Life®	83495	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	14154	134.8	105	4159	74.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
P.Q.L., Inc.	Superior Life®	83457	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	14028	134.51	104.3	4136	74.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
P.Q.L., Inc.	Superior Life®	83463	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	15606	132.39	117.9	4139	74.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
P.Q.L., Inc.	Superior Life®	83465	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	20680	127.7	161.9	4154	74.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
P.Q.L., Inc.	Superior Life®	83467	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	19514	129.34	150.9	4136	74.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
P.Q.L., Inc.	Superior Life®	83469	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	26376	129.17	204.2	4141	74.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
P.Q.L., Inc.	Superior Life®	83471	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	26028	128.41	202.7	4156	74.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
P.Q.L., Inc.	Superior Life®	83473	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	34857	122.24	285.1	4163	75.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
P.Q.L., Inc.	Superior Life®	83475	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	33832	120.52	280.7	4259	75	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
P.Q.L., Inc.	Superior Life®	83477	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	40053	127.07	315.2	4152	75.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
P.Q.L., Inc.	Superior Life®	83479	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	39314	121.15	324.5	4154	75.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
P.Q.L., Inc.	Superior Life®	83481	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	41649	116.15	358.6	4168	75.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
P.Q.L., Inc.	Superior Life®	83483	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	42639	118.3	358.2	4231	75.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
PA-CO Lighting	PA-CO®	PUAC-A-48-LED-83-50-MVOLT	Direct Linear Ambient Luminaires	8700	116.3	74.78	5207	84.32	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
PA-CO Lighting	PA-CO Lighting	PENE-48-LED-00-300-50-MV [all SP options, excludes wireguards]	High-Bay Luminaires for Commercial and Industrial Buildings	30976	115.9	267.21	5239	83.75	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Philips Day-Brite	Philips Day-Brite	LBX40L835-(UNV,120,208,240,277)-(_OCCLB,OCCHB)-FD	Direct Linear Ambient Luminaires	3727.1	122.2	30.5	3409	83.7	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Philips Day-Brite	Philips Day-Brite	LBX70L850-(UNV,120,208,240,277,347)-(_OCCLB,OCCHB)-FD	Direct Linear Ambient Luminaires	6669.2	124.89	53.4	4921	82.98	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Philips Day-Brite	Philips Day-Brite	LBX70L840-(UNV,120,208,240,277,347)-(_OCCLB,OCCHB)-FD	Direct Linear Ambient Luminaires	6556.5	113.04	58	3917	82.46	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Philips Lighting North America Corporation	PhilipsLED	9290011336	A19	800	76.1	10.5	2700	91	5		54	Dimmable	Tier I
Philips Lighting North America Corporation	PhilipsLED	9290011336	A19	800	76.1	10.5	2700	91	5		54	Dimmable	Tier I
Pinnacle Solutions, LLC	Pinnacle LED Solutions	PL-T8-4FT40K23WDE (40F)	2-Lamp External driver Lamp-style retrofit kits (UL Type C)	2027	117	17.37	4094	84.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier I
Pinnacle Solutions, LLC	Pinnacle LED Solutions	PL-T8-1130MM40K23WDE (40F)	2-Lamp External driver Lamp-style retrofit kits (UL Type C)	2621.5	112	23.33	4181	85	5			Continuous (Can dim down to ≤ 10% (W))	Tier I
Pozeen LED LTD	POZEEN	WPSC4SHU30K[PS,MS,PM]	Outdoor Non-Cutoff and Semi-Cutoff Wall-mounted Area Luminaires	4486.2	103.9	43.18	3063	80.7	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
RAB Lighting	RAB Lighting	ALED5578[All Finishes]/480/D10/[PCXX,XPR,WSX]	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	8893	116.7	76.2	4913	73	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Raffino	Raffino	AHB-30000L-40K-X-X-D	High-Bay Luminaires for Commercial and Industrial Buildings	30819	124.2	248	4280	86	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Raffino	Raffino	AHB-18000L-40K-X-X-D	High-Bay Luminaires for Commercial and Industrial Buildings	18903	125.5	151	4270	86	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Raffino	Raffino	AHB-9000L-50K-X-X-N	Low-Bay Luminaires for Commercial and Industrial Buildings	8845	126.2	70.1	5260	83	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Raffino	Raffino	AHB-9000L-40K-X-X-D	Low-Bay Luminaires for Commercial and Industrial Buildings	8529	124.9	68.3	4420	86	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
RC Lighting	RC Lighting	RAIL95YNW[All Mounting Options]/347/[D10] RCL	High-Bay Luminaires for Commercial and Industrial Buildings	10396	114	91.2	3483	82	5			Continuous (Can dim down to ≤ 10% (W))	Tier II

Manufacturer	Brand	Model Number	LED Type	Light Output (Lumens)	Efficacy (lumens per Watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016 Tier Level (LEDA)
Reonac Energy Systems Inc.	Think green solutions	LED-THINK-HBL-5K1V-195W	High-Bay Luminaires for Commercial and Industrial Buildings	26275	136.28	192.8	4879	85.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Reonac Energy Systems Inc.	Think green solutions	LED-THINK-HBL-5K3V-195W	High-Bay Luminaires for Commercial and Industrial Buildings	26538	139.2	190.7	4858	86.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Reonac Energy Systems Inc.	Think green solutions	LED-THINK-HBL-5K1V-240W	High-Bay Luminaires for Commercial and Industrial Buildings	30880	129.42	238.6	4860	83.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
RISE-LITE GROUP CO., LTD	RISELITE	RL-XX-80W-LV-B-D-DW	Architectural Flood and Spot Luminaires	9956.2	123.21	80.81	5186	70.7	5			Not Yet Verified	Tier II
RISE-LITE GROUP CO., LTD	RISELITE	RL-XX-120W-LV-C-D-DW	Architectural Flood and Spot Luminaires	13240	111.17	119.1	5230	71	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
RISE-LITE GROUP CO., LTD	RISELITE	RL-XX-120W-LV-B-D-DW	Architectural Flood and Spot Luminaires	13656	113.61	120.2	5306	71.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
RISE-LITE GROUP CO., LTD	RISELITE	RL-XX-100W-LV-B-D-DW	Architectural Flood and Spot Luminaires	11299	119.06	94.9	5254	71.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
RISE-LITE GROUP CO., LTD	RISELITE	RL-RTK-30W-LV-D-NW	Retrofit Kits for Outdoor Full-Cutoff Wall-Mounted Area Luminaires	2844.6	106.56	26.7	4075	67.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
S LITE CO., LTD.	S LITE	DL832AE(3000K)	High-Bay Luminaires for Commercial and Industrial Buildings	14086	112.6	125.1	3073	72.4	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
S LITE CO., LTD.	S LITE	FL205AL402-XX-Y[L](3000K)	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	4530	121.94	37.15	3127	74.9	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
S LITE CO., LTD.	S LITE	FL205HL402-[RP, SP, SL]-Y-LJ(3000K)	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	4520.7	125.7	35.96	3124	74.6	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
S LITE CO., LTD.	S LITE	FL205AL852-XX-Y[L](3000K)	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	8146	108.27	75.24	3136	74.6	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
S LITE CO., LTD.	S LITE	FL205AL752-XX-Y[L](3000K)	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	7455	110.58	67.42	3133	74.6	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
S LITE CO., LTD.	S LITE	FL205AL206-XX-Y[L](3000K)	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	21563	112.37	191.9	3105	74.6	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
S LITE CO., LTD.	S LITE	FL205AL154-XX-Y[L](3000K)	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	15757	110.65	142.4	3049	74.7	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Samjin Lnd Co., Ltd.	SAMJIN	SU135-079SD50SUS	High-Bay Luminaires for Commercial and Industrial Buildings	12854.3	160.68	80	4806	84	5			Stepped	Tier II
Samjin Lnd Co., Ltd.	SAMJIN	SU135-079MS50SUS	High-Bay Luminaires for Commercial and Industrial Buildings	12847.21	160.31	80.14	4802	84	5			Stepped	Tier II
Shanghai Hongbao Lighting Co., Ltd.	HONGBAO	HST-120/50	High-Bay Luminaires for Commercial and Industrial Buildings	12767	119.8	106.57	4926	80.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Shanghai Hongbao Lighting Co., Ltd.	HONGBAO	HST-220/50	High-Bay Luminaires for Commercial and Industrial Buildings	28081	131.4	213.75	4923	80.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Shanghai Sansi Electronic Engineering Co., Ltd	SANSI	C218B-IE26-15W-50-91-D-2	A19	1600	105.3	15.2	5000	92	5		59	Dimmable	Tier I
Shanghai Supertek Lighting Co., Ltd	SUPERTEK	FL12A-50-4000K	Architectural Flood and Spot Luminaires	5240.8	116.45	45.01	4068	73.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Shenzhen BenWei Lighting Technology Co., Ltd.	BENWEI	BW-T8D-1200-18W-30	2-lamp External driver Lamp-style retrofit kits (UL Type C)	2325	124.93	18.61	3089	81.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier I
Shenzhen BenWei Lighting Technology Co., Ltd.	BENWEI	BW-T8D-1200-12W-30	2-lamp External driver Lamp-style retrofit kits (UL Type C)	1697	140.02	12.12	3087	82.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier I
Shenzhen Beson Technology Co., Ltd	BESON	BS805-4F16W-AEDT-MF(4000K)	2-lamp External driver Lamp-style retrofit kits (UL Type C)	1936.5	129.01	15.01	4224	83.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier I
Shenzhen Betop Electronics Co,Ltd	Bitco	BT-HL100W-175L(4000K)	High-Bay Luminaires for Commercial and Industrial Buildings	11502.1	126.26	91.1	4010	82	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Shenzhen Betop Electronics Co,Ltd	Bitco	BT-HL150W-266L(4000K)	High-Bay Luminaires for Commercial and Industrial Buildings	18900.3	126.93	148.9	4010	82.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Shenzhen Betop Electronics Co,Ltd	Bitco	BT-HL200W-350L(4000K)	High-Bay Luminaires for Commercial and Industrial Buildings	21981.8	121.18	181.4	3997	82	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Shenzhen Betop Electronics Co,Ltd	Bitco	BT-HL240W-420L(4000K)	High-Bay Luminaires for Commercial and Industrial Buildings	27440.9	123.72	221.8	4021	82.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Shenzhen Snowball Lighting Limited	Snowball	SBF/A/C/50W/3D/NW	Architectural Flood and Spot Luminaires	6756.1	126.45	53.5	4064	73.3	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Shenzhen Snowball Lighting Limited	Snowball	SBF/A/50W/3D/NW	Architectural Flood and Spot Luminaires	5886.72	117.29	50.19	4065	73.2	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Shenzhen Snowball Lighting Limited	Snowball	SBF/A/C/100W/3D/NW	Architectural Flood and Spot Luminaires	11947.8	120.67	99.01	4094	73.3	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Shenzhen Snowball Lighting Limited	Snowball	SBF/A/100W/3D/NW	Architectural Flood and Spot Luminaires	11895.7	119.94	99.18	4066	73.1	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Shenzhen Snowball Lighting Limited	Snowball	SB-HB/G+/C/100W/3D/NW	High-Bay Luminaires for Commercial and Industrial Buildings	11820.71	116.24	101.69	4140	74.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Shenzhen Snowball Lighting Limited	Snowball	SB-ST/T2/50W/3D/A/WW [Straight Down Only]	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	5587.4	109.84	50.87	2982	70.59	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Shenzhen Snowball Lighting Limited	Snowball	SB-ST/T2/100W/3D/A/WW	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	11485.2	114.15	100.38	3004	70	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Shenzhen Snowball Lighting Limited	Snowball	SB-ST/T2/200W/3D/A/WW	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	21466.6	110.54	194.2	2995	70	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Shenzhen Syhdee Co.,Ltd.	Syhdee	SYH-ET08-EP1212D-1(3000K)	2-lamp External driver Lamp-style retrofit kits (UL Type C)	1580.5	127.77	12.37	2955	83.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier I
Shenzhen Syhdee Co.,Ltd.	Syhdee	SYH-ET08-EP1236D-2(3000K)	2-lamp External driver Lamp-style retrofit kits (UL Type C)	2023.9	110.34	18.34	3033	83.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier I
Shenzhen Topband Co., Ltd.	TOPBAND	TPT8X4W3A-23WSB(40F)	2-lamp External driver Lamp-style retrofit kits (UL Type C)	2616	116.12	22.53	4033	82.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier I
Shenzhen Topband Co., Ltd.	TOPBAND	TPT8X4N1AA-16WSB(30F)	2-lamp External driver Lamp-style retrofit kits (UL Type C)	1852	113.69	16.29	2939	82	5			Continuous (Can dim down to ≤ 10% (W))	Tier I
Shenzhen Topband Co., Ltd.	TOPBAND	TPLYT104W3A-20WSB(40S)	2-lamp External driver Lamp-style retrofit kits (UL Type C)	2676	129.03	20.74	4082	82.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier I
Shenzhen YDE Technology Limited	YDE	YDE-4RFK-320-HV-PW-H-D	Retrofit Kits for High-Bay Luminaires for Commercial and Industrial Buildings	39314	121.15	324.5	4156	75.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Shenzhen YDE Technology Limited	YDE	YDE-4RFK-320-PW-H-D	Retrofit Kits for High-Bay Luminaires for Commercial and Industrial Buildings	44780	140.99	317.6	4156	75.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Shenzhen YDE Technology Limited	YDE	YDE-4RFK-120-PW-H-D	Retrofit Kits for High-Bay Luminaires for Commercial and Industrial Buildings	16648	143.59	115.9	4152	74.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Shenzhen YDE Technology Limited	YDE	YDE-4RFK-120-PW-H-D	Retrofit Kits for Large Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	15883	136.82	116.1	4146	74.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Shenzhen YDE Technology Limited	YDE	YDE-4RFK-45-PW-H-D	Retrofit Kits for Outdoor Full-Cutoff Wall-Mounted Area Luminaires	5949.6	124.62	47.74	4149	74.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Shenzhen YDE Technology Limited	YDE	YDE-4RFK-30-PW-H-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	3766.8	123.33	30.54	4136	74.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Shenzhen YDE Technology Limited	YDE	YDE-4RFK-45-PW-H-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	5770.4	125.43	46	4146	74.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II

Manufacturer	Brand	Model Number	LED Type	Light Output (Lumens)	Efficacy (lumens per Watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016 Tier Level (LEDA)
Shenzhen YDE Technology Limited	YDE	YDE-4RFK-60-HV-PW-H-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	7888	133.84	58.94	4152	74.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Shenzhen YDE Technology Limited	YDE	YDE-4RFK-60-PW-H-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	8035.9	128.24	62.66	4149	74.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Shenzhen YDE Technology Limited	YDE	YDE-4RFK-45-HV-PW-H-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	5862.5	123.54	47.46	4136	74.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Shenzhen YDE Technology Limited	YDE	YDE-4RFK-350-HV-PW-H-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	42639	118.3	358.2	4231	75.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Shenzhen YDE Technology Limited	YDE	YDE-4RFK-320-HV-PW-H-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	39314	121.15	324.5	4154	75.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Shenzhen YDE Technology Limited	YDE	YDE-4RFK-280-PW-H-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	34857	122.24	285.1	4163	75.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Shenzhen YDE Technology Limited	YDE	YDE-4RFK-200-HV-PW-H-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	26028	128.41	202.7	4156	74.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Shenzhen YDE Technology Limited	YDE	YDE-4RFK-280-HV-PW-H-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	33832	120.52	280.7	4259	75	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Shenzhen YDE Technology Limited	YDE	YDE-4RFK-200-PW-H-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	26376	129.17	204.2	4141	74.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Shenzhen YDE Technology Limited	YDE	YDE-4RFK-150-HV-PW-H-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	19514	129.34	150.9	4136	74.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Shenzhen YDE Technology Limited	YDE	YDE-4RFK-105-HV-PW-H-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	14028	134.51	104.3	4136	74.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Shenzhen YDE Technology Limited	YDE	YDE-4RFK-75-HV-PW-H-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	9871.6	132.79	74.34	4141	74.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Shenzhen YDE Technology Limited	YDE	YDE-4RFK-320-PW-H-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	40053	127.07	315.2	4152	75.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Shenzhen YDE Technology Limited	YDE	YDE-4RFK-120-HV-PW-H-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	15606	132.39	117.9	4139	74.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Shenzhen YDE Technology Limited	YDE	YDE-4RFK-105-PW-H-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	14154	134.8	105	4159	74.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Shenzhen YDE Technology Limited	YDE	YDE-4RFK-350-PW-H-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	41649	116.15	358.6	4168	75.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Shenzhen YDE Technology Limited	YDE	YDE-4RFK-150-PW-H-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	20680	127.7	161.9	4154	74.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
SmartRay, Inc.	SmartRay	SR8GU107W	PAR16	500	71.4	7	3000	93	5	40	62	Dimmable	Tier I
SmartRay, Inc.	SmartRay	SR8PAR167W	PAR16	500	71.4	7	3000	93	5	40	62	Dimmable	Tier I
Spring Lighting Group	Spring Lighting Group Inc.	SLRLMR16GU10830KFL	PAR16		77.6	7	3000	93	5	40	62	Dimmable	Tier I
Spring Lighting Group	Spring Lighting Group Inc.	SLRUP168D30KFL	PAR16		77.6	7	3000	93	5	40	62	Dimmable	Tier I
Standard Products, Inc.	Standard	63057	PAR20	500	71.4	7	4000	92	5	25	61	Dimmable	Tier I
Standard Products, Inc.	Standard	63058	PAR20	500	71.4	7	4000	92	5	40	61	Dimmable	Tier I
Standard Products, Inc.	Standard	63950	PAR20		71.9	7	2700	92	5	25	56	Dimmable	Tier I
Standard Products, Inc.	Standard	63951	PAR20		71.9	7	2700	92	5	40	56	Dimmable	Tier I
Standard Products, Inc.	Standard	63952	PAR20		72.2	7	3000	94	5	25	67	Dimmable	Tier I
Standard Products, Inc.	Standard	63955	PAR20		72.2	7	3000	94	5	40	67	Dimmable	Tier I
Standard Products, Inc.	Standard	63956	PAR20		74.3	7	4000	94	5	25	75	Dimmable	Tier I
Standard Products, Inc.	Standard	63957	PAR20		74.3	7	4000	94	5	40	75	Dimmable	Tier I
Standard Products, Inc.	Standard	63958	PAR20		72.1	7	5000	96	5	25	96	Dimmable	Tier I
Standard Products, Inc.	Standard	63959	PAR20		72.1	7	5000	96	5	40	96	Dimmable	Tier I
Standard Products, Inc.	Standard	63971	PAR30	826	79.1	10.5	3000	92	5	25	64	Dimmable	Tier I
Standard Products, Inc.	Standard	63968	PAR30		79.4	10.6	2700	92	5	25	57	Dimmable	Tier I
Standard Products, Inc.	Standard	63969	PAR30		79.4	10.6	2700	92	5	40	57	Dimmable	Tier I
Standard Products, Inc.	Standard	63970	PAR30		77.7	10.6	3000	94	5	25	68	Dimmable	Tier I
Standard Products, Inc.	Standard	63972	PAR30		77.7	10.6	3000	94	5	40	68	Dimmable	Tier I
Standard Products, Inc.	Standard	63973	PAR30		84.7	10.5	4000	94	5	25	76	Dimmable	Tier I
Standard Products, Inc.	Standard	63974	PAR30		84.7	10.5	4000	94	5	40	76	Dimmable	Tier I
Standard Products, Inc.	Standard	63975	PAR30		79	10.5	5000	96	5	25	95	Dimmable	Tier I
Standard Products, Inc.	Standard	63976	PAR30		79	10.5	5000	96	5	40	95	Dimmable	Tier I
Standard Products, Inc.	Standard	63065	PAR30	750	70.8	10.6	2700	90	5	25	42	Dimmable	Tier I
Standard Products, Inc.	Standard	63066	PAR30	750	70.8	10.6	2700	90	5	40	42	Dimmable	Tier I
Standard Products, Inc.	Standard	63067	PAR30	800	76	10.5	3000	91	5	25	49	Dimmable	Tier I
Standard Products, Inc.	Standard	63068	PAR30	800	76.4	10.5	3000	90	5	25	48	Dimmable	Tier I
Standard Products, Inc.	Standard	63069	PAR30	800	76	10.5	3000	91	5	40	49	Dimmable	Tier I
Standard Products, Inc.	Standard	63070	PAR30	820	76.9	10.7	4000	92	5	25	60	Dimmable	Tier I
Standard Products, Inc.	Standard	63071	PAR30	820	76.9	10.7	4000	92	5	40	60	Dimmable	Tier I
Standard Products, Inc.	Standard	63966	PAR30L		79.6	10.6	5000	96	5	25	95	Dimmable	Tier I
Standard Products, Inc.	Standard	63967	PAR30L		79.6	10.6	5000	96	5	40	95	Dimmable	Tier I
Standard Products, Inc.	Standard	63059	PAR30L	750	72.4	10.4	2700	91	5	25	47	Dimmable	Tier I
Standard Products, Inc.	Standard	63060	PAR30L	750	72.4	10.4	2700	91	5	40	47	Dimmable	Tier I
Standard Products, Inc.	Standard	63061	PAR30L	800	77.1	10.4	3000	90	5	25	49	Dimmable	Tier I
Standard Products, Inc.	Standard	63062	PAR30L	800	77.1	10.4	3000	90	5	40	49	Dimmable	Tier I
Standard Products, Inc.	Standard	63063	PAR30L	820	79.4	10.3	4000	92	5	25	61	Dimmable	Tier I
Standard Products, Inc.	Standard	63064	PAR30L	820	79.4	10.3	4000	92	5	40	61	Dimmable	Tier I
Standard Products, Inc.	Standard	63960	PAR30L		79.8	10.5	2700	92	5	25	57	Dimmable	Tier I
Standard Products, Inc.	Standard	63961	PAR30L		79.8	10.5	2700	92	5	40	57	Dimmable	Tier I
Standard Products, Inc.	Standard	63962	PAR30L		77.9	10.6	3000	94	5	25	68	Dimmable	Tier I
Standard Products, Inc.	Standard	63963	PAR30L		77.9	10.6	3000	94	5	40	68	Dimmable	Tier I
Standard Products, Inc.	Standard	63964	PAR30L		83.7	10.6	4000	94	5	25	76	Dimmable	Tier I
Standard Products, Inc.	Standard	63965	PAR30L		83.7	10.6	4000	94	5	40	76	Dimmable	Tier I
Standard Products, Inc.	Standard	63977	PAR38		76.3	15	2700	92	5	25	56	Dimmable	Tier I
Standard Products, Inc.	Standard	63978	PAR38		76.3	15	2700	92	5	40	56	Dimmable	Tier I
Standard Products, Inc.	Standard	63979	PAR38		74.4	15	3000	94	5	25	68	Dimmable	Tier I
Standard Products, Inc.	Standard	63980	PAR38		73.7	15	3000	94	5	40	68	Dimmable	Tier I
Standard Products, Inc.	Standard	63981	PAR38		79.3	15	4000	94	5	25	76	Dimmable	Tier I
Standard Products, Inc.	Standard	63982	PAR38		79.3	15	4000	94	5	40	76	Dimmable	Tier I
Standard Products, Inc.	Standard	63983	PAR38		75.3	15	5000	96	5	25	97	Dimmable	Tier I
Standard Products, Inc.	Standard	63984	PAR38		75.3	15	5000	96	5	40	97	Dimmable	Tier I
Standard Products, Inc.	Standard	63080	PAR38	1200	70.6	17	3000	92	5	25	53	Dimmable	Tier I
Standard Products, Inc.	Standard	63081	PAR38	1200	70.6	17	3000	92	5	40	53	Dimmable	Tier I
Standard Products, Inc.	Standard	63082	PAR38	1220	71.8	17	4000	93	5	25	65	Dimmable	Tier I
Standard Products, Inc.	Standard	63083	PAR38	1220	71.8	17	4000	93	5	40	65	Dimmable	Tier I
Straits Lighting	Straits Lighting	SL917T5-48-22W-EDT (3000K Frosted)	2-lamp External driver Lamp-style retrofit kits (UL Type C)	2397	110.38	21.71	2906	81.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier I
Sunrise Lighting	Sunrise Lighting	SLED-13/SD-2700K	A19	1100	78	14	2700	93	5		61	Dimmable	Tier I
Sunrise Lighting	Sunrise Lighting	SLED-13/SD-3000K	A19	1100	78	14	3000	90	5		53	Dimmable	Tier I
Tamlite Lighting	Tamlite Lighting	IBLED6-3240003L850-xxx	High-Bay Luminaires for Commercial and Industrial Buildings	31300	120.6	259.1	5265	83.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II

Manufacturer	Brand	Model Number	LED Type	Light Output (lumens)	Efficacy (lumens per Watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016 Tier Level (LEDA)
Tamlite Lighting	Tamlite Lighting	IBLED4-2160002L830-xxx	High-Bay Luminaires for Commercial and Industrial Buildings	19420	110.5	175.8	3181	83.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Technical Consumer Products, Inc. (TCP)	TCP	LED17HOP38D30KFL95	PAR38	1300	76	17.1	3000	94	5	40	61	Dimmable	Tier I
Technical Consumer Products, Inc. (TCP)	TCP	LED17HOP38D30KNFL95	PAR38	1300	76	17.1	3000	94	5	25	61	Dimmable	Tier I
Technical Consumer Products, Inc. (TCP)	TCP	LED17P3835KNFL95	PAR38	1270	74.2	17	3500	95	5	25	69		Tier I
Technical Consumer Products, Inc. (TCP)	TCP	RLP3817W30KD95	PAR38	1200	70.6	17	3000	93	5	40	56	Dimmable	Tier I
The Straits Lighting Company	SL903RK2	SL903RK2-120W-4000K-D	Retrofit Kits for High-Bay Luminaires for Commercial and Industrial Buildings	16648	143.59	115.9	4152	74.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
The Straits Lighting Company	SL903RK2	SL903RK2-320W-4000K-D	Retrofit Kits for High-Bay Luminaires for Commercial and Industrial Buildings	44780	140.99	317.6	4156	75.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
The Straits Lighting Company	SL903RK2	SL903RK2-320W-4000K-D-HV	Retrofit Kits for High-Bay Luminaires for Commercial and Industrial Buildings	39314	121.15	324.5	4156	75.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
The Straits Lighting Company	SL903RK2	SL903RK2-120W-4000K-D	Retrofit Kits for Large Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	15883	136.82	116.1	4146	74.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
The Straits Lighting Company	SL903RK2	SL903RK2-45W-4000K-D	Retrofit Kits for Outdoor Full-Cutoff Wall-Mounted Area Luminaires	5949.6	124.62	47.74	4149	74.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
The Straits Lighting Company	SL903RK2	SL903RK2-30W-4000K-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	3766.8	123.33	30.54	4136	74.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
The Straits Lighting Company	SL903RK2	SL903RK2-45W-4000K-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	5770.4	125.43	46	4146	74.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
The Straits Lighting Company	SL903RK2	SL903RK2-45W-4000K-D-HV	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	5862.5	123.54	47.46	4136	74.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
The Straits Lighting Company	SL903RK2	SL903RK2-60W-4000K-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	8035.9	128.24	62.66	4149	74.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
The Straits Lighting Company	SL903RK2	SL903RK2-60W-4000K-D-HV	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	7888	133.84	58.94	4152	74.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
The Straits Lighting Company	SL903RK2	SL903RK2-75W-4000K-D-HV	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	9871.6	132.79	74.34	4141	74.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
The Straits Lighting Company	SL903RK2	SL903RK2-105W-4000K-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	14154	134.8	105	4159	74.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
The Straits Lighting Company	SL903RK2	SL903RK2-105W-4000K-D-HV	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	14028	134.51	104.3	4136	74.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
The Straits Lighting Company	SL903RK2	SL903RK2-120W-4000K-D-HV	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	15606	132.39	117.9	4139	74.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
The Straits Lighting Company	SL903RK2	SL903RK2-150W-4000K-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	20680	127.7	161.9	4154	74.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
The Straits Lighting Company	SL903RK2	SL903RK2-150W-4000K-D-HV	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	19514	129.34	150.9	4136	74.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
The Straits Lighting Company	SL903RK2	SL903RK2-200W-4000K-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	26376	129.17	204.2	4141	74.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
The Straits Lighting Company	SL903RK2	SL903RK2-200W-4000K-D-HV	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	26028	128.41	202.7	4156	74.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
The Straits Lighting Company	SL903RK2	SL903RK2-280W-4000K-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	34857	122.24	285.1	4163	75.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
The Straits Lighting Company	SL903RK2	SL903RK2-280W-4000K-D-HV	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	33832	120.52	280.7	4259	75	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
The Straits Lighting Company	SL903RK2	SL903RK2-320W-4000K-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	40053	127.07	315.2	4152	75.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
The Straits Lighting Company	SL903RK2	SL903RK2-320W-4000K-D-HV	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	39314	121.15	324.5	4154	75.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
The Straits Lighting Company	SL903RK2	SL903RK2-350W-4000K-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	41649	116.15	358.6	4168	75.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
The Straits Lighting Company	SL903RK2	SL903RK2-350W-4000K-D-HV	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires									Continuous (Can dim down to ≤ 10% (W))	Tier II
Titan LED, Inc.	Titan LED	17C-4-16-40K	2-lamp External driver Lamp-style retrofit kits (UL Type C)	42639	118.3	358.2	4231	75.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier I
Titan LED, Inc.	Titan LED	17C-4-16-50K (CLEAR LENS ONLY)	2-lamp External driver Lamp-style retrofit kits (UL Type C)	1855	111	16.78	3870	84.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier I
Topaz Lighting	Topaz	LP20/7/940/NFL/D-33	PAR20	525	71.4	7	4000	92	5	25	60	Dimmable	Tier I
Topaz Lighting	Topaz	LP20/7/950/NFL/D-33	PAR20	750	71.6	7	5000	91	5	25	55	Dimmable	Tier I
Topaz Lighting	Topaz	LP30/10/927/FL/D-33	PAR30	800	76.4	10.5	2700	90	5	40	45	Dimmable	Tier I
Topaz Lighting	Topaz	LP30/10/930/FL/D-33	PAR30	800	76.4	10.5	3000	90	5	40	48	Dimmable	Tier I
Topaz Lighting	Topaz	LP30/10/940/FL/D-33	PAR30	820	78.2	10.5	4000	93	5	40	61	Dimmable	Tier I
Topaz Lighting	Topaz	LP30/10/950/FL/D-33	PAR30	850	79.6	10.7	5000	91	5	40	56	Dimmable	Tier I
Topaz Lighting	Topaz	LP30L/10/927/FL/D-33	PAR30L		75	10	2700	91	5	40	50	Dimmable	Tier I
Topaz Lighting	Topaz	LP30L/10/930/FL/D-33	PAR30L	800	80	10	3000	91	5	40	52	Dimmable	Tier I
Topaz Lighting	Topaz	LP30L/10/940/FL/D-33	PAR30L		82	10	4000	92	5	40	52	Dimmable	Tier I
Topaz Lighting	Topaz	LP30L/10/950/FL/D-33	PAR30L	850	81.5	10.4	5000	93	5	40	55	Dimmable	Tier I
Topaz Lighting	Topaz	LP38/17/930/FL/D-33	PAR38	1200	70.6	17	3000	92	5	40	53	Dimmable	Tier I
Topaz Lighting	Topaz	LP38/17/940/FL/D-33	PAR38	1220	71.8	17	4000	93	5	40	65	Dimmable	Tier I
Topaz Lighting	Topaz	LP38/17/950/FL/D-33	PAR38	1250	73.5	17	5000	92	5	40	62	Dimmable	Tier I
Turolight Inc.	Turolight	VIV-MR16/7W/30/WFL40/GU10/D/190	PAR16		77.7	7	3000	93	5	40	62	Dimmable	Tier I
Turolight Inc.	Turolight	VIV-MR16/7W/30/WFL40/JDR/D/190	PAR16		77.7	7	3000	93	5	40	62	Dimmable	Tier I
US LED	Exsa Bay	EXB1-1-UNVL-50-80-28-xx-S-C-x	High-Bay Luminaires for Commercial and Industrial Buildings	29139	133	219.1	5260	81	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
US LED	Exsa Bay	EXB1-1-UNVH-50-80-14-xx-S-C-x	High-Bay Luminaires for Commercial and Industrial Buildings	14432	135.8	106.3	5340	81	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
US LED	Vapor Tight	VTE1-1-UNVL-50-80-F-W-S-x	Parking Garage Luminaires	3739	125.9	29.7	5140	83	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
US LED	Vapor Tight	VTE1-1-UNVL-50-80-F-W-M-x	Parking Garage Luminaires	5355	118	45.4	5160	82	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
US LED	Vapor Tight	VTE1-1-UNVL-50-80-F-W-H-x	Parking Garage Luminaires	7268	107.8	67.4	5190	82	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
US LED	QubePark	QG3-1-UNVH-2-5M-x	Parking Garage Luminaires	7137	105.4	67.7	5050	73	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Ushio America Inc.	UPHORIA	1003964	PAR30		71.6	10.5	2700	90	5	25	45	Dimmable	Tier I
Ushio America Inc.	UPHORIA	1003965	PAR30		71.6	10.5	2700	90	5	40	45	Dimmable	Tier I
Ushio America Inc.	UPHORIA	1003966	PAR30		76.4	10.5	3000	90	5	25	48	Dimmable	Tier I
Ushio America Inc.	UPHORIA	1003967	PAR30		76.4	10.5	3000	90	5	40	48	Dimmable	Tier I
Ushio America Inc.	UPHORIA	1003960	PAR30L		75	10	2700	91	5	25	50	Dimmable	Tier I
Ushio America Inc.	UPHORIA	1003961	PAR30L		75	10	2700	91	5	40	50	Dimmable	Tier I
Ushio America Inc.	UPHORIA	1003962	PAR30L		80	10	3000	91	5	25	52	Dimmable	Tier I
Ushio America Inc.	UPHORIA	1003963	PAR30L		80	10	3000	91	5	40	52	Dimmable	Tier I
Ushio America Inc.	UPHORIA	1003974	PAR38		70.6	17	3000	92	5	25	53	Dimmable	Tier I
Ushio America Inc.	UPHORIA	1003975	PAR38		70.6	17	3000	92	5	40	53	Dimmable	Tier I
Verbatim Americas	Verbatim	98986	MR16		67.9	7.4	2700	94	3	25	62	Dimmable	Tier I

Manufacturer	Brand	Model Number	LED Type	Light Output (Lumens)	Efficacy (lumens per Watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016 Tier Level (LEDA)
Verbatim Americas	Verbatim	98984	MR16		67.9	7.4	2700	94	3	38	62	Dimmable	Tier I
Verbatim Americas	Verbatim	98985	MR16		68.6	7.3	3000	95	3	38	70	Dimmable	Tier I
Verbatim Americas	Verbatim	98987	MR16		68.6	7.3	3000	95	3	25	70	Dimmable	Tier I
Verbatim Americas	Verbatim	98830	PAR20	500	71.4	7	4000	91	5	25	50	Dimmable	Tier I
Verbatim Americas	Verbatim	99012	PAR20		75	7	5000	91	5	25	55	Dimmable	Tier I
Verbatim Americas	Verbatim	99003	PAR30		71.6	10.5	2700	90	5	25	45	Dimmable	Tier I
Verbatim Americas	Verbatim	99004	PAR30		76.4	10.5	3000	90	5	25	48	Dimmable	Tier I
Verbatim Americas	Verbatim	99074	PAR30	820	78.2	10.5	4000	93	5	40	61	Dimmable	Tier I
Verbatim Americas	Verbatim	98838	PAR30L	800	80	10	2700	91	5	25	50	Dimmable	Tier I
Verbatim Americas	Verbatim	98839	PAR30L	800	80	10	2700	91	5	40	50	Dimmable	Tier I
Verbatim Americas	Verbatim	98840	PAR30L	800	80	10	3000	91	5	25	52	Dimmable	Tier I
Verbatim Americas	Verbatim	98841	PAR30L	800	80	10	3000	91	5	40	52	Dimmable	Tier I
Verbatim Americas	Verbatim	98842	PAR30L	800	80	10	4000	92	5	25	52	Dimmable	Tier I
Verbatim Americas	Verbatim	98843	PAR30L	800	80	10	4000	92	5	40	52	Dimmable	Tier I
Verbatim Americas	Verbatim	98844	PAR30L		80	10	2700	91	5	25	50	Dimmable	Tier I
Verbatim Americas	Verbatim	98846	PAR30L		80	10	3000	91	5	25	52	Dimmable	Tier I
Verbatim Americas	Verbatim	98847	PAR30L		80	10	3000	91	5	40	52	Dimmable	Tier I
Verbatim Americas	Verbatim	99013	PAR30L		81.5	10.4	5000	91	5	25	55	Dimmable	Tier I
Verbatim Americas	Verbatim	98852	PAR38	1200	70.6	17	3000	92	5	25	53	Dimmable	Tier I
Verbatim Americas	Verbatim	98853	PAR38	1200	70.6	17	3000	92	5	40	53	Dimmable	Tier I
Verbatim Americas	Verbatim	98854	PAR38		71.8	17	4000	93	5	25	53	Dimmable	Tier I
Verbatim Americas	Verbatim	98855	PAR38	1220	71.8	17	4000	93	5	40	53	Dimmable	Tier I
Verbatim Americas	Verbatim	98859	PAR38		70.6	17	3000	92	5	40	53	Dimmable	Tier I
Verbatim Americas	Verbatim	98860	PAR38	1220	71.8	17	4000	93	5	25	53	Dimmable	Tier I
Verbatim Americas	Verbatim	98862	PAR38	1200	70.6	17	3000	91	5	25	46		Tier I
Verbatim Americas	Verbatim	98941	PAR38	1200	70.6	17	4000	91	5	25	46		Tier I
Verbatim Americas	Verbatim	99014	PAR38		73.5	17	5000	92	5	25	62	Dimmable	Tier I
VMS Lighting Solutions	VMS Lighting Solutions	MHB-40-150-UNV	High-Bay Luminaires for Commercial and Industrial Buildings	16305.5	111.84	145.8	3888	75.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
VMS Lighting Solutions	VMS Lighting Solutions	MHB-40-150-347/480	High-Bay Luminaires for Commercial and Industrial Buildings	16218.5	113.95	142.3	3859	74.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
VMS Lighting Solutions	VMS Lighting	MHB-40-150-UNV	High-Bay Luminaires for Commercial and Industrial Buildings	16305.5	111.84	145.8	3888	75.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
VMS Lighting Solutions	VMS Lighting	MHB-40-150-347/480	High-Bay Luminaires for Commercial and Industrial Buildings	16218.5	113.95	142.3	3859	74.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
WAYTOGO LED LIGHTING COMPANY LTD	WTGLD	RTK-150W-LV-40-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	20680	127.7	161.9	4154	74.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
WAYTOGO LED LIGHTING COMPANY LTD	WTGLD	RTK-320W-LV-40-D	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	40053	127.07	315.2	4152	75.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Yankon Lighting, Inc.	Yankon	YGA03A35-6W-927	A19	450	75	6	2700	91	5		48	Dimmable	Tier I
Yankon Lighting, Inc.	Yankon	YGA03A35-6W-930	A19	450	75	6	3000	91	5		50	Dimmable	Tier I
ZHEJIANG ZHONGQI OPTOELECTRONIC CO., LTD	ZQ LIGHTING	ZQGD-9413-G145-Y-4000K [100 Beam Angle Only]	High-Bay Luminaires for Commercial and Industrial Buildings	16218.5	113.95	142.3	3859	74.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
ZHEJIANG ZHONGQI OPTOELECTRONIC CO., LTD	ZQ LIGHTING	ZQGD-9413-145-Y-4000K [100 Beam Angle Only]	High-Bay Luminaires for Commercial and Industrial Buildings	16305.5	111.84	145.8	3888	75.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II

LED Products that Require Additional Information

LED Products that Require Additional Information

Created from data accessed: 04/21/2016

The qualified LED products in this document are divided into two individual Qualified Product Lists (QPLs). The first, titled "LEDA Pre-Qualified Fixtures and Type C LED External Driver Linear Lamp Style Retrofit Kits" contains Lowbay, Highbay, Direct Linear Ambient, Interior Directional, Outdoor fixtures that have 0-10v continuous dimming for compatibility with networked controls. Type C LED External Driver Linear Lamp Style Retrofit Kits have 0-10 volt continuous dimming that can dim down to less than 10%. The LED fixtures are DLC Premium certified and Type C LED External Driver Linear Lamp Style Retrofit Kits are DLC Standard certified and you can assume these fixtures will automatically qualify for LEDA incentives if program requirements are followed. The second list, titled "LED Products that Require Additional Information" contains fixtures which are only DLC "Standard" certified but have a high likelihood of being DLC Premium certified once testing information is received from the manufacturer. In order to speed LED market transformation, if you bring in a project that can save over 20 KW, provide lighting and controls scope, LEDA can qualify the LEDs if the manufacturer has testing information available and they intend to go through the DLC certification process. If time is a significant factor in your project, select products which are LEDA Pre-Qualified". The QPLs only include "parent" products, but any child product that also meets DLC Premium specifications is eligible for incentives. If your specific fixture does not appear on this QPL, or if you believe it may be a child product, please contact the LEDA Program Manager for eligibility verification. For more information visit <http://ledaccelerator.com> and download the LEDA Product Qualification Requirements document for instructions on how to have your product approved for the LEDA program.



Additional Notes:

- 1. Energy Star Certified lamps (MR16, PAR, A) and fixtures (Accent Light Line-Voltage, Downlights) will need to have their warranties validated to ensure they align with LEDA product requirements
- 2. Individual LED diodes must not be visible to be eligible for LEDA incentives (i.e. a lens is required)

Manufacturer	Brand	Model Number	LED Type	Light Output (Lumens)	Efficacy (lumens per Watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016-17 Tier Level (LEDA)
#1 Advance LEDs	Advance	USA-HBH-100W50	High-Bay Luminaires for Commercial and Industrial Buildings	11810.16	114.064	103.54	5064	73.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
A Plus Lighting LLC	A Plus Lighting	AP-RKP-120-01(4000K)	Retrofit Kits for High-Bay Luminaires for Commercial and Industrial Buildings	16250	124.9	130.1	3996	83.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
A Plus Lighting LLC	A Plus Lighting	AP-RKP-200-01(4000K)	Retrofit Kits for High-Bay Luminaires for Commercial and Industrial Buildings	27078	129.15	210.2	3990	83.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
A Plus Lighting LLC	A Plus Lighting	AP-RKP-100-01(4000K)	Retrofit Kits for Outdoor Full-Cutoff Wall-Mounted Area Luminaires	11695	113.96	102.6	3979	83.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
A Plus Lighting LLC	A Plus Lighting	AP-RKP-060-03(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	6851.2	116.39	58.91	3978	83.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
A Plus Lighting LLC	A Plus Lighting	AP-RKP-080-01(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	9402.5	112.59	83.69	3992	83.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
A Plus Lighting LLC	A Plus Lighting	AP-RKP-150-01(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	18709	123.25	151.8	4007	83.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
A Plus Lighting LLC	A Plus Lighting	AP-RKP-240-01(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	28013	118.15	237.8	4001	83.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
A Plus Lighting LLC	A Plus Lighting	AP-RKP-300-01(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	35288	116.35	303.8	3995	83.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
A Plus Lighting LLC	A Plus Lighting	AP-RKP-300-03(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	34952	117.21	298.2	3996	83.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
A Plus Lighting LLC	A Plus Lighting	AP-RKP-400-01(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	47542	113.38	420.5	3996	83.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
A Plus Lighting LLC	A Plus Lighting	AP-RKP-480-01(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	53085	112.97	470.5	4010	83.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
A Plus Lighting LLC	A Plus Lighting	AP-RKP-120-01(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	15057	115.82	130	3998	83.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
A Plus Lighting LLC	A Plus Lighting	AP-RKP-200-01(4000K) WP040	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	27078	129.15	210.2	3990	83.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
A2Z Green Lighting	A2Z Green Lighting	AL040	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	4517	104	43.44	5315	84.6	5			Not Yet Verified	Tier II
A2Z Green Lighting	A2Z Green Lighting		Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	4717	108.3	43.54	5163	83.5	5			Not Yet Verified	Tier II
A2Z Green Lighting	A2Z Green Lighting	AL200	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	22958	114.2	201	5956	75.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
A2Z Green Lighting	A2Z Green Lighting	AL100	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	12225	116.2	105.2	5901	75	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
A2Z Green Lighting	A2Z Green Lighting	AL0896-2	Retrofit Kits for Large Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	22958	114.2	201	5956	75.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
A2Z Green Lighting	A2Z Green Lighting	WP0440	Retrofit Kits for Outdoor Full-Cutoff Wall-Mounted Area Luminaires	4517	104	43.44	5315	84.6	5			Not Yet Verified	Tier II
A2Z Green Lighting	A2Z Green Lighting	AL0440	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	4717	108.3	43.54	5163	83.5	5			Not Yet Verified	Tier II
A2Z Green Lighting	A2Z Green Lighting	AL0896	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	12225	116.2	105.2	5901	75	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
ABBLighting	ABBLighting	LHB200501-82	High-Bay Luminaires for Commercial and Industrial Buildings	24972	122.6	203.63	5117	81.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
ABBLighting	ABBLighting	LHB120501-82	High-Bay Luminaires for Commercial and Industrial Buildings	14063	118.1	119.1	5125	82	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
ABBLighting	ABBLighting	RHB120501-110	High-Bay Luminaires for Commercial and Industrial Buildings	13379	112.3	119.13	4826	83.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
ABBLighting	ABBLighting	ABAR080LED50III-XX-YY	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	8367.9	106.7	78.4	4989	76.7	5			Not Yet Verified	Tier II
ACRA Phenolics Inc.	ACRA Phenolics Inc.	HBS-23-HO-5K	High-Bay Luminaires for Commercial and Industrial Buildings	23177	117.6	197.1	5159	82.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
ACRA Phenolics Inc.	ACRA Phenolics Inc.	LBS-11.5-5K	Low-Bay Luminaires for Commercial and Industrial Buildings	12216	122.3	99.85	5159	82.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Acuity Brands Lighting	Hydrel	M9710C/M9730C LED P1 50K NSP FLC XXX XXX XXX LDIM [120V Only]	Architectural Flood and Spot Luminaires	3683.36	127	29.05	4935	72	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Acuity Brands Lighting	Holophane	SVLED2 PNL PK1 MVOLT 50K XXX XXXX XX XX XXXXX	Architectural Flood and Spot Luminaires	6033	115.95	52.03	4663	70.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Acuity Brands Lighting	Holophane	SVLED2 PNL PK1 MVOLT 40K XXX XXXX XX XX XXXXX	Architectural Flood and Spot Luminaires	5669	106.68	53.14	3939	74.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Acuity Brands Lighting	Lithonia Lighting	HLF1 LED P1 50K WFL XXXXX XXXXX (All options excluding UBV, FV, WG, VG) XXXXX	Architectural Flood and Spot Luminaires	18169.98	111.37	163.15	5159	72.1	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Acuity Brands Lighting	Lithonia Lighting	HLF1 LED P1 50K WFL XXXXX XXXXX PER5 XXXXX	Architectural Flood and Spot Luminaires	18169.98	111.37	163.15	5159	72.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Acuity Brands Lighting	Lithonia Lighting	HLF1 LED P1 30K WFL XXXXX XXXXX (All options excluding UBV, FV, WG, VG) XXXXX	Architectural Flood and Spot Luminaires	18509.46	112.73	164.2	3158	71.8	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Acuity Brands Lighting	Lithonia Lighting	HLF1 LED P1 30K WFL XXXXX XXXXX PER5 XXXXX	Architectural Flood and Spot Luminaires	18509.46	112.73	164.2	3158	71.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Acuity Brands Lighting	Lithonia Lighting	ST1460LXXXXXL P850XXXXXXX XXXXX	Direct Linear Ambient Luminaires	5964	112.11	53.2	5000	83.9	5			Not Yet Verified	Tier II
Acuity Brands Lighting	Lithonia Lighting	WL420LXXXXXL P830XXXXXXX XXXXX	Direct Linear Ambient Luminaires	2068	110.47	18.72	3047	83.44	5			Not Yet Verified	Tier II
Acuity Brands Lighting	Lithonia Lighting	WL430LXXXXXL P850XXXXXXX XXXXX	Direct Linear Ambient Luminaires	3445	120.88	28.5	4967	81.94	5			Not Yet Verified	Tier II
Acuity Brands Lighting	Lithonia Lighting	IBH 9000LM L/LENS MD XXXXX OZ10 50K 70CRI	High-Bay Luminaires for Commercial and Industrial Buildings	10294	134.04	76.8	5027	73.21	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Acuity Brands Lighting	Lithonia Lighting	CA01N-165I-Z1-LP830-XXXX-XXXX	High-Bay Luminaires for Commercial and Industrial Buildings	16440.5	115.31	142.58	3042	82.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Acuity Brands Lighting	Lithonia Lighting	FHE 9000LM FST ND XXXXX GZ10 30K 70CRI	High-Bay Luminaires for Commercial and Industrial Buildings	9157.76	121.21	75.55	3047	71.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Acuity Brands Lighting	Lithonia Lighting	MSL 10000LM L/LV MVOLT GZ10 30K 80CRI XXXX	Low-Bay Luminaires for Commercial and Industrial Buildings	9426	111.84	84.28	3053	81.89	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II

Manufacturer	Brand	Model Number	LED Type	Light Output (Lumens)	Efficacy (lumens per Watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016-17 Tier Level (LEDA)
Acuity Brands Lighting	Lithonia Lighting	ZL1N L48 5000LM /U/LENS MVOLT 30K 80 CRI XXXXXXX XXXX	Low-Bay Luminaires for Commercial and Industrial Buildings	5204.51	123.21	42.24	3053	82.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Acuity Brands Lighting	Lithonia Lighting	DSXW2 LED 20C 350 50K T2M XXXXX XXX XXXX XXX XXX XXXXX	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	2582	102.31	25.24	4834	67	5			Not Yet Verified	Tier II
Acuity Brands Lighting	American Electric Lighting	ATB0 20BLEDE53 XXXXX R4 3K XX XXX XX XX XXX XXXX XX	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	4326.33	111.45	38.82	3087	72.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Acuity Brands Lighting	American Electric Lighting	ATB0 20BLED E53 XXXXX R2 5K XXX XX XX XXXX	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	3612	106.5	34.06	4925	74.59	5			Not Yet Verified	Tier II
Acuity Brands Lighting	Lithonia Lighting	DSX0 LED 20C 700 50K T15 XXXXX XXX XXXX XXXX XXXXXX	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	4837	107.35	45.06	4794	67	5			Not Yet Verified	Tier II
Acuity Brands Lighting	American Electric Lighting	LNH2XXX LU4 MVOLT R3 NU XXXX XXXXXXXX	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	4293	109	39.4	3980	71.01	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Acuity Brands Lighting	American Electric Lighting	LNH2XXX LU1 MVOLT R3 NU XXXX XXXXXXXX	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	1818	108.6	16.7	3988	72.77	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Acuity Brands Lighting	American Electric Lighting	LNH2XXX LU2 MVOLT R3 NU XXXX XXXXXXXX	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	2466	101.8	24.2	3991	72.73	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Acuity Brands Lighting	American Electric Lighting	ATBS A MVOLT R2 5K XXXX XXXXX	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	1870	106.67	17.53	5029	72.23	5			Not Yet Verified	Tier II
Acuity Brands Lighting	American Electric Lighting	ATB2 40B LED E53 XXXXX R4 5K XXX XX XX XXXX DSX0 LED 30C 530 40K T15 XXXXX XXX XXXX XXX XXXXXX	Roadway Luminaires Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	7142.9	106.14	67.3	4886	74.4	5			Not Yet Verified	Tier II
Acuity Brands Lighting	Lithonia Lighting		Roadway Luminaires	5480	105.63	51.88	3933	73	5			Not Yet Verified	Tier II
Acuity Brands Lighting	Holophane	HMLD2 12 4K A S F XXXX XXXXX	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	5606	112.46	498.5	3977	70.36	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Acuity Brands Lighting	American Electric Lighting	ATBM C XXXXX R4 XX XXXX XXXX	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	8827.2	109.89	80.33	3938	71.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Acuity Brands Lighting	American Electric Lighting	ATBM A XXXXX R4 XX XXXX XXXX	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	6957.68	115.81	60.08	3933	71.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Acuity Brands Lighting	American Electric Lighting	ATBM C XXXXX R2 XX 500X XXXX	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	9266.71	115.3	80.37	4999	72.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Acuity Brands Lighting	American Electric Lighting	ATB2 40BLEDE70 XXXXX R4 3K XX XXX XX XX XXX XXXX XX	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	10280	114.32	89.92	3097	72.07	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Acuity Brands Lighting	Holophane	HMLD2 12 5K AS X AW XXXX XXXXX	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	59340	117.2	506.3	4895	71.31	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Acuity Brands Lighting	Holophane	HMLD2 06 4K AS X F XXXX XXXXX	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	28880	114.63	251.95	3971	70.25	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Acuity Brands Lighting	American Electric Lighting	ATBM E XXXXX R4 XX XXXX XXXX	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	13322.99	115.93	114.92	3967	70.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Acuity Brands Lighting	American Electric Lighting	ATBM D XXXXX R4 XX XXXX XXXX	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	11533.9	121.1	95.24	3963	70.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Acuity Brands Lighting	American Electric Lighting	ATBM F XXXXX R4 XX XXXX XXXX	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	15476.37	116.41	132.95	3958	72.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Acuity Brands Lighting	American Electric Lighting	ATBM E XXXXX R2 XX 500X XXXX	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	13685.51	120.21	113.85	4981	73.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Acuity Brands Lighting	Lithonia Lighting	PGX LED P1 30K T5R XXXXX XXX XXXXXXXXXX XXXXX	Parking Garage Luminaires	3428	114.92	29.83	3060	71.38	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Acuity Brands Lighting	Lithonia Lighting	PGX LED P1 40K T5M XXXXX XXX XXXXXXXXXX XXXXX	Parking Garage Luminaires	3648.04	122.13	29.87	3945	71	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Acuity Brands Lighting	Lithonia Lighting	PGX LED P2 30K T5R XXXXX XXX XXXXXXXXXX XXXXX	Parking Garage Luminaires	4782	104.39	45.81	3067	71.19	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Acuity Brands Lighting	Lithonia Lighting	WL441LXXXX43LP830XXXXXXXNESXXXXXXXXX XXXX	Stairwell and Passageway Luminaires	4229	102.22	41.37	3160	81	5			Not Yet Verified	Tier II
Acuity Brands Lighting	Lithonia Lighting	WL425LXXXX24LP835XXXXXXXNESXXXXXXXXX XXXXX	Stairwell and Passageway Luminaires	2479	102.5	24.18	3566	82	5			Not Yet Verified	Tier II
Acuity Brands Lighting	Lithonia Lighting	WL425LXXXX24LP830XXXXXXXNESXXXXXXXXX XXXX	Stairwell and Passageway Luminaires	2440	102.56	23.79	3128	83	5			Not Yet Verified	Tier II
Acuity Brands Lighting	Lithonia Lighting	WL425LXXXX24LP850XXXXXXXNESXXXXXXXXX XXXX	Stairwell and Passageway Luminaires	2664	110.86	24.03	5282.4	84.1	5			Not Yet Verified	Tier II
Acuity Brands Lighting	Lithonia Lighting	STL220LXXXXLDP850LSXRHLC1XXX	Stairwell and Passageway Luminaires	2209	112.19	19.69	4948	83.68	5			Stepped	Tier II
Acuity Brands Lighting	Lithonia Lighting	STL440LXXXXSLDP830LSXRHLC1XXX	Stairwell and Passageway Luminaires	3693	105.7	34.94	3056	82.94	5			Stepped	Tier II
Acuity Brands Lighting	Lithonia Lighting	STL440LXXXXSLDP850LSXRHLC1XXX	Stairwell and Passageway Luminaires	4134	118.38	34.92	4987	83.87	5			Stepped	Tier II
Acuity Brands Lighting	Lithonia Lighting	STL430LXXXXSLDP830LSXRHLC1XXX	Stairwell and Passageway Luminaires	2908	109.28	26.61	3051	82.92	5			Stepped	Tier II
Acuity Brands Lighting	Lithonia Lighting	WL2-22L-SLD-LP830-XXXX-XXXXXX-XXXX-XX	Stairwell and Passageway Luminaires	2102.67	102.17	20.58	3049	83.2	5			Stepped	Tier II
Acuity Brands Lighting	Lithonia Lighting	LBL4-40L-XXX-EZ1-LP850-XXXXXXX-XXXXX	Stairwell and Passageway Luminaires	4606	118.1	39	5086	82.88	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Acuity Brands Lighting	Lithonia Lighting	WL430LXXXXXXXXXLP850XXXXXXXXXXXXXXXXX XXXX	Stairwell and Passageway Luminaires	3445	120.88	28.5	4967	81.94	5			Not Yet Verified	Tier II
Acuity Brands Lighting	Lithonia Lighting	WL420LXXXXXXXXXLP830XXXXXXXXXXXXXXXXX XXXX	Stairwell and Passageway Luminaires	2068	110.47	18.72	3047	83.44	5			Not Yet Verified	Tier II
Acuity Brands Lighting	Lithonia Lighting	WL430LXXXXXXXXXLP830XXXXXXXXXXXXXXXXX XXXX	Stairwell and Passageway Luminaires	2949	104.61	28.19	3057	83.38	5			Not Yet Verified	Tier II
Advanced Energy Ideas	Advanced Energy Ideas	AP03-300W-50K-UNI-DME	High-Bay Luminaires for Commercial and Industrial Buildings	32910	110	300	5190	76.1	5			Not Yet Verified	Tier II
Advanced Energy Solutions, Inc.	AES	AES6-10W-27H	Downlight Solid State Retrofit	870	88.1	10 2700K		81				Continuous Dimming	Tier I (or Tier II with networked controls)
Advanced Energy Solutions, Inc.	AES	AES6-10W-30H	Downlight Solid State Retrofit	840	88.2	10 3000K		81				Continuous Dimming	Tier I (or Tier II with networked controls)
Advanced Energy Solutions, Inc.	AES	AES6-10W-40H	Downlight Solid State Retrofit	870	89.6	10 4000/4100K		83				Continuous Dimming	Tier I (or Tier II with networked controls)
Advanced Energy Solutions, Inc.	AES	AES6-10W-50H	Downlight Solid State Retrofit	870	90.5	10 5000K		84				Continuous Dimming	Tier I (or Tier II with networked controls)
Advanced Optronic Devices (China) Co., Ltd.	AOD	AL-S03-4000K	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	3311.5	103.89	31.87	4068	72.4	10			Not Yet Verified	Tier II
Advanced Optronic Devices (China) Co., Ltd.	AOD	AL-S05-4000K	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	5625.4	110.31	50.99	4068	72.5	10			Not Yet Verified	Tier II
Advanced Optronic Devices (China) Co., Ltd.	AOD	AL-S08-4000K	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	9189.2	112.28	81.84	4082	72.5	10			Not Yet Verified	Tier II
Advanced Optronic Devices (China) Co., Ltd.	AOD	AL-S15-4000K	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	17365.22	115.08	150.9	4078	72	10			Not Yet Verified	Tier II
Advanced Optronic Devices (China) Co., Ltd.	AOD	AL-S20-4000K	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	22148.36	113.93	194.4	4131	72	10			Not Yet Verified	Tier II
AEL Company	AEL Company	LGLM50SMWH	Parking Garage Luminaires	4576	111.46	41.05	4837	74	5			Not Yet Verified	Tier II
AEL Company	AEL Company	LGLM50HMWH	Parking Garage Luminaires	6142	113.57	54.08	4943	74	5			Not Yet Verified	Tier II
Affinity LED Light LLC	Affinity LED Lighting	S800-25W-57K-T5-10-XX-M	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	2909.2	115.03	25.29	5320	69.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II

Manufacturer	Brand	Model Number	LED Type	Light Output (Lumens)	Efficacy (lumens per Watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016-17 Tier Level (LEDA)
Affinity LED Light LLC	Affinity LED Lighting	S800-25W-40K-T5-10-XX-M	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	2823.6	109.4	25.81	3935	80.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Affinity LED Light LLC	Affinity LED Lighting	S800-40W-57K-T3-10-XX-M	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	5028.7	122.09	41.19	5381	70.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Affinity LED Light LLC	Affinity LED Lighting	S800-40W-40K-T3-10-XX-M	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	4706.3	114.01	41.28	3710	77.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Affinity LED Light LLC	Affinity LED Lighting	S801-80W-40K-T5-10-XX-M	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	8950	109.03	82.09	3978	78	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Affinity LED Light LLC	Affinity LED Lighting	S802-120W-40K-T2-10-XX-M	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	13168.5	117.6	111.94	3954	81.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Affinity LED Light LLC	Affinity LED Lighting	S803-150W-40K-T2-10-XX-M	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	16984	115.4	147.24	3822	78.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
AGC Lighting Co., Ltd	AGC Lighting	AGC-HB01-100/T-3000K-50	High-Bay Luminaires for Commercial and Industrial Buildings	11480.45	112.136	102.38	3047	73	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
AGC Lighting Co., Ltd	AGC Lighting	AGC-HB01-120/T-3000K-50	High-Bay Luminaires for Commercial and Industrial Buildings	13613.418	110.391	123.32	3051	73	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
AGC Lighting Co., Ltd	AGC Lighting	AGC-HB01-100/T-5000K-50	High-Bay Luminaires for Commercial and Industrial Buildings	11810.16	114.064	103.54	5064	73.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Aimlite Lighting Products	Aimlite	HBBF-LA2-8/40K/[L]10 or KV or OSI or U347]	High-Bay Luminaires for Commercial and Industrial Buildings	17991	120.9	148.75	4069	84.97	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Aimlite Lighting Products	Aimlite	HBBF-LA3-2/50K/XXXX	High-Bay Luminaires for Commercial and Industrial Buildings	24433	122.5	199.4	5004	83.47	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Aimlite Lighting Products	Aimlite	HBBF-LA3-8/40K/XXXX	High-Bay Luminaires for Commercial and Industrial Buildings	24368	125.2	194.6	3951	82.15	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Aimlite Lighting Products	Aimlite	WPFH-LA3-8/35K/XX	High-Bay Luminaires for Commercial and Industrial Buildings	17808	122.7	145.1	3529	82.99	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Aimlite Lighting Products	Aimlite	WPFH-LA3-2/33K/XX [120V ONLY]	High-Bay Luminaires for Commercial and Industrial Buildings	17763	119.2	149.05	3544	83.03	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Alder Optomechanical Corp.	Alder	HL-1205-HTD-T5WNAC8-UL	Architctural Flood and Spot Luminaires	14893.73	117.13	127.16	4093	86.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Alder Optomechanical Corp.	Alder	HL-1205-HTD-T5WN60C8-UL	Architctural Flood and Spot Luminaires	14386.68	114.43	125.73	3964	86.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Alder Optomechanical Corp.	Alder	HBL-3005-TD-cSTR-T6WDAOC8	High-Bay Luminaires for Commercial and Industrial Buildings	34114	110.9	307.73	5082	84.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Alder Optomechanical Corp.	Alder	HBL-1005-TD-cSTR-T6WN60C8	High-Bay Luminaires for Commercial and Industrial Buildings	11741	115.7	101.49	3898	84.5	5			Stepped	Tier II
Alder Optomechanical Corp.	Alder	HBL-805-TD-cSTR-T6WN60C8	High-Bay Luminaires for Commercial and Industrial Buildings	10241	119.9	85.41	3882	84.5	5			Stepped	Tier II
Alder Optomechanical Corp.	Alder	HBL-2005-TD-cSTR-T6WN30C8	High-Bay Luminaires for Commercial and Industrial Buildings	25406	125.9	201.85	4168	86.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Alder Optomechanical Corp.	Alder	HBL-2005-TD-cSTR-T6WDAOC8	High-Bay Luminaires for Commercial and Industrial Buildings	22253	117.6	189.26	4929	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Alder Optomechanical Corp.	Alder	HBL-1505-HTD-cSTR-T6WNAOC8	High-Bay Luminaires for Commercial and Industrial Buildings	17479	114.1	153.13	4127	87.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Alder Optomechanical Corp.	Alder	HBL-1505-HTD-cSTR-T6WN60C8	High-Bay Luminaires for Commercial and Industrial Buildings	17132	113.3	151.18	4146	87.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Alder Optomechanical Corp.	Alder	HBL-3005-TD-cSTR-T6WN30C8	High-Bay Luminaires for Commercial and Industrial Buildings	36644	120.5	304.19	4197	86	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Alder Optomechanical Corp.	Alder	HBL-2005-TD-cSTR-T6WN60C8	High-Bay Luminaires for Commercial and Industrial Buildings	25311	122.7	206.34	4166	86	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Alder Optomechanical Corp.	Alder	HBL-3005-TD-cSTR-T6WN60C8	High-Bay Luminaires for Commercial and Industrial Buildings	37495	122.8	305.35	4149	86	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
All Green Lighting, Inc.	All Green Lighting, Inc.	NEPTUNE-25W-57K-T5-D	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	2823.6	109.4	25.81	3935	80.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
All Green Lighting, Inc.	All Green Lighting, Inc.	NEPTUNE-40W-57K-T3-D	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	2909.2	115.03	25.29	5320	69.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
All Green Lighting, Inc.	All Green Lighting, Inc.	NEPTUNE-80W-40K-T5-D	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	8950	109.03	82.09	3978	78	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
All Green Lighting, Inc.	All Green Lighting, Inc.	NEPTUNE-40W-40K-T3-D	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	4706.3	114.01	41.28	3710	77.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
All Green Lighting, Inc.	All Green Lighting, Inc.	NEPTUNE-40W-57K-T3-D	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	5028.7	122.09	41.19	5381	70.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
All Green Lighting, Inc.	All Green Lighting, Inc.	NEPTUNE-120W-40K-T2-D	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	13168.5	117.6	111.94	3954	81.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
All Green Lighting, Inc.	All Green Lighting, Inc.	NEPTUNE-150W-40K-T2-D	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	16984	115.4	147.24	3822	78.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
All Green Lighting, Inc.	AGL LED	SATURN-100WD2(4000K)	Retrofit Kits for Outdoor Full-Cutoff Wall-Mounted Area Luminaires	11695	113.96	102.6	3979	83.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
All Green Lighting, Inc.	AGL LED	SATURN-120WD2(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	15057	115.82	130	3998	83.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
All Green Lighting, Inc.	AGL LED	SATURN-150WD2(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	18709	123.25	151.8	4007	83.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
All Green Lighting, Inc.	AGL LED	SATURN-240WD2(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	28013	118.15	237.8	4001	83.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
ALLED Lighting Systems	ALLED	T8K-R1-7500-1 w Reflectors (5000K)	Low-Bay Luminaires for Commercial and Industrial Buildings	5306	121.7	43.6	5380	77	5			Not Yet Verified	Tier II
Allstar Lighting Supplies, Inc. DBA Luxrite	luxrite	LR23005 LED/DL4/3000K/FL/ES	Downlight Solid State Retrofit	600	75.1	9 3000K		83				Continuous Dimming	Tier I (or Tier II with networked controls)
Allstar Lighting Supplies, Inc. DBA Luxrite	luxrite	LR23015 LED/DL6/3000K/FL/ES	Downlight Solid State Retrofit	1150	79.9	14 3000K		83				Continuous Dimming	Tier I (or Tier II with networked controls)
Allstar Lighting Supplies, Inc. DBA Luxrite	luxrite	LR230X LED/DL6/FL/ES	Downlight Solid State Retrofit	1000	75.2	15 5000K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Allstar Lighting Supplies, Inc. DBA Luxrite	luxrite	LR230X LED/DL6/FL/ES	Downlight Solid State Retrofit	1000	75.2	15 2700K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Allstar Lighting Supplies, Inc. DBA Luxrite	luxrite	LR230X LED/DL6/FL/ES	Downlight Solid State Retrofit	1000	75.2	15 4000/4100K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
ALUMALIGHT LLC	Aluminum Full Body LED	AL-LED-26-5.0K	High-Bay Luminaires for Commercial and Industrial Buildings	25030	126	198.6	5497	84.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
ALUMALIGHT LLC	Alumabeam LED	I-LED-26-5.0K	High-Bay Luminaires for Commercial and Industrial Buildings	25590	127.4	200.8	5462	83.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Alva	Alva	Betty In Acrylic ADD-40W-PC-G(4000K)	Accent Light Line-voltage	924	96.7	9.6 2700K		81				Continuous Dimming	Tier I (or Tier II with networked controls)
AMAX INDUSTRIAL LTD	Amax		Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	4098.6	105.54	38.83	3959	73.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
American Bright Lighting	IngeniLED	ABL-RESW-186GW-A-LD	Downlight Solid State Retrofit	1200	79.3	18 3000K		82				Continuous Dimming	Tier I (or Tier II with networked controls)

Manufacturer	Brand	Model Number	LED Type	Light Output (Lumens)	Efficacy (lumens per Watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016-17 Tier Level (LEDA)
American Lighting Inc.	American Lighting	EP4-E26-40-xx	Downlight Recessed	550	79	7	4000/4100K	85				Continuous Dimming	Tier I (or Tier II with networked controls)
American Lighting Inc.	American Lighting	EP4-GU24-40-xx	Downlight Recessed	550	79	7	4000/4100K	85				Continuous Dimming	Tier I (or Tier II with networked controls)
American Lighting Inc.	American Lighting Inc.	EP5-E26-XX-YY	Downlight Recessed	700	75	10	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
American Lighting Inc.	American Lighting Inc.	EP5-GU24-XX-YY	Downlight Recessed	700	75	10	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
American Lighting Inc.	American Lighting	EP6-E26-40-xx	Downlight Recessed	800	85	9	4000/4100K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
American Lighting Inc.	American Lighting	EP6-GU24-40-xx	Downlight Recessed	800	85	9	4000/4100K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
American Lighting Inc.	American Lighting	MAG8-XX-YY	Downlight Recessed	1800	84.7	23	2700K	81				Non-Dimmable	Tier I
American Lighting Inc.	American Lighting	MAG8-XX-YY	Downlight Recessed	1800	84.7	23	3000K	81				Non-Dimmable	Tier I
American Lighting Inc.	American Lighting	MAG8-XX-YY	Downlight Recessed	1800	84.7	23	4000/4100K	81				Non-Dimmable	Tier I
American Lighting Inc.	American Lighting	EP5-E26-XX-YY	Downlight Solid State Retrofit	710	77.1	9.6	3000K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
American Lighting Inc.	American Lighting	EP5-E26-XX-YY	Downlight Solid State Retrofit	710	77.1	9.6	3500K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
American Lighting Inc.	American Lighting	EP5-E26-XX-YY	Downlight Solid State Retrofit	710	77.1	9.6	4000/4100K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
American Lighting Inc.	American Lighting	EP5-E26-XX-YY	Downlight Solid State Retrofit	710	77.1	9.6	3500K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
American Lighting Inc.	American Lighting	EP5-E26-XX-YY	Downlight Solid State Retrofit	710	77.1	9.6	4000/4100K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
American Lighting Inc.	American Lighting	EP5-GU24-XX-YY	Downlight Solid State Retrofit	710	77.1	9.6	3000K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
American Lighting Inc.	American Lighting	EP6H-XX-YY-ZZ HL	Downlight Solid State Retrofit	1000	78.6	13	2700K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
American Lighting Inc.	American Lighting	EP6H-XX-YY-ZZ HL	Downlight Solid State Retrofit	1030	80	13	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
American Lighting Inc.	American Lighting	EP6H-XX-YY-ZZ HL	Downlight Solid State Retrofit	1040	80	13	4000/4100K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
American Lighting Inc.	American Lighting	EP6H-XX-YY-ZZ HL (7xx7denote lead wire connector with lamp bas e type E26	Downlight Solid State Retrofit	1000	78.6	13	2700K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
American Lighting Inc.	American Lighting	EP6H-XX-YY-ZZ HL (7xx7denote lead wire connector with lamp bas e type E26	Downlight Solid State Retrofit	1030	80	13	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
American Lighting Inc.	American Lighting	EP6H-XX-YY-ZZ HL (7xx7denote lead wire connector with lamp bas e type E26	Downlight Solid State Retrofit	1040	80	13	4000/4100K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Amerillum Brands	Alumen8E	E-CHP124L40LHUW[All Mountings][All Options]	Direct Linear Ambient Luminaires	4471.59	117	38.06	4024	81	5			Not Yet Verified	Tier II
Amerlux	Amerlux LLC	GRUV4-HE-Z-PL-4-LED-4000-HW-120/277-4-IND	Direct Linear Ambient Luminaires	1917	119	16.11	4000	83.4	10			Continuous (Can dim down to ≤ 10% (W))	Tier II
ANKSO (HK) LIMITED	ANKSO	AHK/45/45K/D/WODL AQHBx45557CA-US (120V ONLY) [Excludes Wall-Mount Option]	Low-Bay Luminaires for Commercial and Industrial Buildings	6209.1	134.57	46.14	4312	83.4	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Aqualuma LLC	Aqualuma	AQHBx09057CA-US (120V ONLY) [Excludes Wall-Mount Option]	High-Bay Luminaires for Commercial and Industrial Buildings	20502.13	132.15	155.14	5234	71	5			Not Yet Verified	Tier II
Aqualuma LLC	Aqualuma	AQHBx09040CA-US-5020 [Excludes Wall-Mount Option]	High-Bay Luminaires for Commercial and Industrial Buildings	12762.89	139.13	91.73	5190	70	5			Not Yet Verified	Tier II
Aqualuma LLC	Aqualuma	AQHBx09040CA-US-5020 [Excludes Wall-Mount Option]	High-Bay Luminaires for Commercial and Industrial Buildings	10197.48	111	92.11	3815	82	5			Not Yet Verified	Tier II
ARON Lighting	ARON Lighting	TBAR-2FT-4000K-UNV-2500-B2-80-DM	Direct Linear Ambient Luminaires	2602	112	23.32	4036	85.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Ascent Battery Supply	Duracell	LED11443C	Downlight Solid State Retrofit	1200	79.3	18	2700K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Ascent Battery Supply	Duracell	LED11441B	Downlight Solid State Retrofit	570	76.9	7.5	2700K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Ascent Battery Supply	Duracell	LED11442B	Downlight Solid State Retrofit	876	80.6	11.5	2700K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Ascent Battery Supply	Duracell	LED11442C	Downlight Solid State Retrofit	750	78.4	12	2700K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Ascent Battery Supply	Duracell	LED11443B	Downlight Solid State Retrofit	1329	76.6	18	2700K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
ASD LIGHTING CORP	ASD	ASD-WHB-4D9040HE(-MS)	High-Bay Luminaires for Commercial and Industrial Buildings	11931.7	133.9	89.1	3874	84.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
ASD LIGHTING CORP	ASD	ASD-WHB-4D14040HE(-MS)	High-Bay Luminaires for Commercial and Industrial Buildings	18645.1	131.3	141.99	3866	83.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
ASD LIGHTING CORP	ASD	ASD-WHB-4D18040HE(-MS)	High-Bay Luminaires for Commercial and Industrial Buildings	24727.4	134.7	183.6	3865	83.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
ASD LIGHTING CORP	ASD	ASD-LRHB1-100D35HE	High-Bay Luminaires for Commercial and Industrial Buildings	11603	116.93	99.23	3492	80.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
ASD LIGHTING CORP	ASD	ASD-LRHB1-150D35HE	High-Bay Luminaires for Commercial and Industrial Buildings	17548	114.68	153	3479	80.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
ASD LIGHTING CORP	ASD	ASD-LRHB1-200D 35HE	High-Bay Luminaires for Commercial and Industrial Buildings	24151	115.94	208.3	3471	80.8	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
ASD Lighting Corp.	ASD	ASD-DL01D4-7.5W-27	Downlight Solid State Retrofit	550	77	7.5	2700K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
ASD Lighting Corp.	ASD	ASD-DL01D4-7.5W-40	Downlight Solid State Retrofit	550	77	7.5	4000/4100K	85				Continuous Dimming	Tier I (or Tier II with networked controls)
ASD Lighting Corp.	ASD	ASD-DL01D6-11.5W-27	Downlight Solid State Retrofit	750	81	11.5	2700K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
ASD Lighting Corp.	ASD	ASD-DL01D6-11.5W-40	Downlight Solid State Retrofit	750	81	11.5	4000/4100K	85				Continuous Dimming	Tier I (or Tier II with networked controls)
ASD Lighting Corp.	ASD	ASD-DL01D6-18W-27	Downlight Solid State Retrofit	1200	77	18	2700K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
ASD Lighting Corp.	ASD	ASD-DL01D6-18W-40 WPFC40	Downlight Solid State Retrofit	1200	77	18	4000/4100K	85				Continuous Dimming	Tier I (or Tier II with networked controls)
ATG Electronics Corp.	ATG	SL12 (5000K, Type 4 Optic with no angle adjustments only)	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	4011	108.12	37.09	5979	85	5			Not Yet Verified	Tier II
ATG Electronics Corp.	ATG Electronics		Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	12216	140.24	117.1	4908	72	5			Not Yet Verified	Tier II
ATG Electronics Corp.	ATG Electronics Corp. 	AL07	Parking Garage Luminaires	7427.542	105.971	70.09	4924	73.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
ATG Electronics Corp.	ATG Electronics Corp. 	LIFI-35F-2FT	Track or Mono-Point Directional Luminaires	2821.212	78.54	35.92	3443	96.5	5			Not Dimmable	Tier I

Manufacturer	Brand	Model Number	LED Type	Light Output (lumens)	Efficacy (lumens per Watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016-17 Tier Level (LEDA)
Atlas Lighting Products	Atlas Lighting Products	ILW25LED2D	Direct Linear Ambient Luminaires	2803	111.54	25.13	4013	82.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Atlas Lighting Products	Atlas Lighting Products, Inc.	ILH150LED4LS	High-Bay Luminaires for Commercial and Industrial Buildings	17410	112.69	154.5	4587	82.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Atlas Lighting Products	Atlas Lighting Products, Inc.	ILH150LED4S	High-Bay Luminaires for Commercial and Industrial Buildings	18590	119.76	155.23	4592	82.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Atlas Lighting Products	Atlas Lighting Products	ILH210LED4L	High-Bay Luminaires for Commercial and Industrial Buildings	24890	118.82	209.47	3972	82	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Atlas Lighting Products	Atlas Lighting Products	ILH210LED4	High-Bay Luminaires for Commercial and Industrial Buildings	27000	129.16	209.05	3960	82.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Atlas Lighting Products	Atlas Lighting Products	ILH140LED4L	High-Bay Luminaires for Commercial and Industrial Buildings	17050	122.75	138.9	3944	82.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Atlas Lighting Products	Atlas Lighting Products	ILH140LED4	High-Bay Luminaires for Commercial and Industrial Buildings	18390	131.6	139.7	3968	82.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Atlas Lighting Products	Atlas Lighting Products	ILH140LED4	High-Bay Luminaires for Commercial and Industrial Buildings	16950	123	137.7	3954	80.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Atlas Lighting Products	Atlas Lighting Products	ILH210LED4	High-Bay Luminaires for Commercial and Industrial Buildings	25420	122	208.5	3960	80.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Atlas Lighting Products	Atlas Lighting Products	ILH104LED4S	High-Bay Luminaires for Commercial and Industrial Buildings	13390	127.85	104.73	3952	82.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Atlas Lighting Products	Atlas Lighting Products	ILH104LED4LS	High-Bay Luminaires for Commercial and Industrial Buildings	12270	116.92	104.94	3960	82	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Atlas Lighting Products	Atlas Lighting Products	ILH140LED4L	High-Bay Luminaires for Commercial and Industrial Buildings	15450	111	139.2	4041	82	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Atlas Lighting Products	Atlas Lighting Products	ILH80LED4S[Blank]X	Low-Bay Luminaires for Commercial and Industrial Buildings	9958	121.47	81.98	4057	83.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Atlas Lighting Products	Atlas Lighting Products	ILH80LED4LS[Blank]X	Low-Bay Luminaires for Commercial and Industrial Buildings	9223	112.93	81.67	4061	83.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Atlas Lighting Products	Atlas Lighting Products	ILW76LED8D	Low-Bay Luminaires for Commercial and Industrial Buildings	9582	131.69	72.76	4046	82.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Atlas Lighting Products	Atlas Lighting Products	ILW48LED4D	Low-Bay Luminaires for Commercial and Industrial Buildings	5564	116.37	47.82	4004	82.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Atlas Lighting Products	Atlas Lighting Products	WLSG27LED[PC]	Outdoor Non-Cutoff and Semi-Cutoff Wall-mounted Area Luminaires	3017	112.9	26.46	4603	82.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Atlas Lighting Products	Atlas Lighting Products	WLD64LED[PC]	Outdoor Non-Cutoff and Semi-Cutoff Wall-mounted Area Luminaires	6655	107.1	61.78	4578	82.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Atlas Lighting Products	Atlas Lighting Products	SLP1675LEDT3	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	8280	117.7	70.35	4022	73.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Atlas Lighting Products	Atlas Lighting Products	SLP1675LEDT5	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	7581	110.02	68.91	4278	73.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Atlas Lighting Products	Atlas Lighting Products	SLP16175LED5C4KU [All colors, all options]	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	18820	111.35	169.01	4633	72.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Atlas Lighting Products	Atlas Lighting Products	VN1243LED	Parking Garage Luminaires	4611.6	106	43.51	4614	83.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Axis Energy Partners, LLC	Axis LED Lighting	AEP5L120W (5000K, Type 4 Optic with no angle adjustments only)	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	12216	140.24	117.1	4908	72	5			Not Yet Verified	Tier II
Aztech Technologies Pte Ltd.	AZ e-lite	LF426H-840	Direct Linear Ambient Luminaires	3223.128	118.979	27.09	3970	84.5	5			Stepped	Tier II
Aztech Technologies Pte Ltd.	AZ e-lite	LF213H-840	Direct Linear Ambient Luminaires	1582.47	124.85	12.675	4033	84	5			Stepped	Tier II
Aztech Technologies Pte Ltd.	LAMAR LIGHTING	DSLED48H-40	Stairwell and Passageway Luminaires	3255.471	118.136	27.557	3993	84.9	5			Stepped	Tier II
Aztech Technologies Pte Ltd.	AZ e-lite	LF426HS-840	Stairwell and Passageway Luminaires	3255.471	118.136	27.557	3993	84.9	5			Stepped	Tier II
Aztech Technologies Pte Ltd.	AZ e-lite	LF213HS-840	Stairwell and Passageway Luminaires	1597.221	123.271	12.957	4011	83.8	5			Stepped	Tier II
Aztech Technologies Pte Ltd.	AZ e-lite	LF426HBS-840	Stairwell and Passageway Luminaires	3157.878	116.699	27.06	4016	84.7	5			Stepped	Tier II
Aztech Technologies Pte Ltd.	AZ e-lite	LF213HBS-840	Stairwell and Passageway Luminaires	1586.484	119.644	13.26	4036	83.7	5			Stepped	Tier II
AZZ Lighting Systems	Rig-A-Lite	LHF07LUT76XX (5000K)	Architctural Flood and Spot Luminaires	6918.94	106.05	65.24	5108	72	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Barron Lighting Group	Barron Lighting Group	TLED-C-24-VS-G-XX	Parking Garage Luminaires	2817	101.37	27.79	4599	73	5			Not Yet Verified	Tier II
Barron Lighting Group	Barron Lighting Group	TLED-C-36-VS-G-XX	Parking Garage Luminaires	4119	100.88	40.83	4697	73	5			Not Yet Verified	Tier II
Barron Lighting Group	Barron Lighting Group	TLED-TC-24-VS-G-XX	Parking Garage Luminaires	2817	101.37	27.79	4599	73	5			Not Yet Verified	Tier II
Barron Lighting Group	Barron Lighting Group	TLED-TC-36-VS-G-XX	Parking Garage Luminaires	4119	100.88	40.83	4697	73	5			Not Yet Verified	Tier II
Barron Lighting Group	Barron Lighting	TLED-RC-36-VS-G-XX	Parking Garage Luminaires	4119	100.88	40.83	4697	73	5			Not Yet Verified	Tier II
Bazz, Inc.	Bazz	110L11W	Downlight Recessed	790	78.7	11 3000K		83				Continuous Dimming	Tier I (or Tier II with networked controls)
Bazz, Inc.	Bazz	CON4L11W	Downlight Solid State Retrofit	790	78.7	11 3000K		83				Continuous Dimming	Tier I (or Tier II with networked controls)
Beghelli North America	Beghelli	BS100LED4HT30WWT40-347V	Direct Linear Ambient Luminaires	3773.76	113.26	33.32	4053	84.94	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Besser Energy S.A.P.I. DE C.V.	Besser Energy	AP-HO-S-5S-1-N	High-Bay Luminaires for Commercial and Industrial Buildings	35701.64	119.29	299.29	5650	71.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Besser Energy S.A.P.I. DE C.V.	Besser Energy	AP-SO-S-5S-1-N	High-Bay Luminaires for Commercial and Industrial Buildings	15701.47	130.054	120.73	5578	71.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Beyond Signs Inc. dba Beyond LED Technology	BEYOND LIGHTING	100149	Direct Linear Ambient Luminaires	2546.3	120.63	21.1	5176	81.8	5			Not Yet Verified	Tier II
Beyond Signs Inc. dba Beyond LED Technology	BEYOND LIGHTING	101782	Direct Linear Ambient Luminaires	2909.6	119.1	24.26	5223	82	5			Not Yet Verified	Tier II
Beyond Signs Inc. dba Beyond LED Technology	BEYOND LIGHTING	101790	Direct Linear Ambient Luminaires	2993.7	110.27	27.14	5227	82	5			Not Yet Verified	Tier II
Beyond Signs Inc. dba Beyond LED Technology	BEYOND LIGHTING	102301	Direct Linear Ambient Luminaires	2993.7	110.27	27.14	5227	82	5			Not Yet Verified	Tier II
Big Ass Light, LLC	Big Ass Light	BAL-HBL1-26050100	High-Bay Luminaires for Commercial and Industrial Buildings	27480	110.12	249.55	5102	73.1	7			Not Yet Verified	Tier II
BIG SHINE LED	BIG SHINE LED	BSL-FL120-SK-AL-4K-60	Architctural Flood and Spot Luminaires	14386.68	114.43	125.73	3964	86.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
BIG SHINE LED	BIG SHINE LED	BSL-FL120-SK-AL-4K-120	Architctural Flood and Spot Luminaires	14893.73	117.13	127.16	4093	86.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
BIG SHINE LED	BIG SHINE LED	BSL-HB100-SEHD-AC-4K-60	High-Bay Luminaires for Commercial and Industrial Buildings	11741	115.7	101.49	3898	84.5	5			Stepped	Tier II
BIG SHINE LED	BIG SHINE LED	BSL-HB80-SEHD-AC-4K-60	High-Bay Luminaires for Commercial and Industrial Buildings	10241	119.9	85.41	3882	84.5	5			Stepped	Tier II
BIG SHINE LED	BIG SHINE LED	BSL-HB150-SEHD-AO-4K-60	High-Bay Luminaires for Commercial and Industrial Buildings	17132	113.3	151.18	4146	87.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
BIG SHINE LED	BIG SHINE LED	BSL-HB150-SEHD-AO-4K-100	High-Bay Luminaires for Commercial and Industrial Buildings	17479	114.1	153.13	4127	87.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
BIG SHINE LED	BIG SHINE LED	BSL-HB200-SEHD-MO-4K-60	High-Bay Luminaires for Commercial and Industrial Buildings	25311	122.7	206.34	4166	86	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
BIG SHINE LED	BIG SHINE LED	BSL-HB200-SEHD-MO-4K-30	High-Bay Luminaires for Commercial and Industrial Buildings	25406	125.9	201.85	4168	86.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II

Manufacturer	Brand	Model Number	LED Type	Light Output (lumens)	Efficacy (lumens per Watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016-17 Tier Level (LEDA)
BIG SHINE LED	BIG SHINE LED	BSL-HB300-SEHD-MO-4K-60	High-Bay Luminaires for Commercial and Industrial Buildings	37495	122.8	305.35	4149	86	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
BIG SHINE LED	BIG SHINE LED	BSL-HB300-SEHD-MO-4K-30	High-Bay Luminaires for Commercial and Industrial Buildings	36644	120.5	304.19	4197	86	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
BJ Take, Inc.	BJ Take	BLSP-8'-5.5L-ULT835-UNV-L18	Direct Linear Ambient Luminaires	5778	114.2	50.61	3539	84.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Bolim, Inc.	Bolim	BLN4F36-4080E	Direct Linear Ambient Luminaires	4702.7	126.8	37.1	3946	85	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Bravoled Lighting Manufacturing Co., Ltd	Bravoled	BL-D4-0950ZZ	Downlight Recessed	850	94.6	9 5000K		81				Continuous Dimming	Tier I (or Tier II with networked controls)
Bravoled Lighting Manufacturing Co., Ltd	Bravoled	BL-C4-1527ZZ	Downlight Solid State Retrofit	1116	80.2	15 2700K		81				Non-Dimmable	Tier I
Bravoled Lighting Manufacturing Co., Ltd	Bravoled	BL-C4-1530ZZ	Downlight Solid State Retrofit	1116	80.2	15 3000K		81				Non-Dimmable	Tier I
Bravoled Lighting Manufacturing Co., Ltd	Bravoled	BL-C4-1540ZZ	Downlight Solid State Retrofit	1116	80.2	15 4000/4100K		81				Non-Dimmable	Tier I
Bravoled Lighting Manufacturing Co., Ltd	Bravoled	BL-C4-1550ZZ	Downlight Solid State Retrofit	1116	80.2	15 5000K		81				Non-Dimmable	Tier I
Bravoled Lighting Manufacturing Co., Ltd	Bravoled	BL-D6-1350ZZ	Downlight Solid State Retrofit	1200	94.6	13 5000K		81				Continuous Dimming	Tier I (or Tier II with networked controls)
Bravoled Lighting Manufacturing Co., Ltd	Bravoled	BL-D6-1527ZZ	Downlight Solid State Retrofit	1105	76.1	15 2700K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Bravoled Lighting Manufacturing Co., Ltd	Bravoled	BL-D6-1530ZZ	Downlight Solid State Retrofit	1105	76.1	15 3000K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Bravoled Lighting Manufacturing Co., Ltd	Bravoled	BL-D6-1540ZZ	Downlight Solid State Retrofit	1105	76.1	15 4000/4100K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Bravoled Lighting Manufacturing Co., Ltd	Bravoled	BL-D6-1550ZZ	Downlight Solid State Retrofit	1105	76.1	15 5000K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Broadra, Inc.	Broadra	1800962	Downlight Solid State Retrofit	750	78.4	12 3000K		81				Continuous Dimming	Tier I (or Tier II with networked controls)
Bulbrite Industries	BULBRITE	LED14REC/6/30K/D	Downlight Recessed	950	75.7	14 3000K		85				Continuous Dimming	Tier I (or Tier II with networked controls)
Bulbrite Industries	BULBRITE	LED14REC/6/30K/D	Downlight Recessed	950	75.7	14 3000K		85				Continuous Dimming	Tier I (or Tier II with networked controls)
Carolina high mast	CAROLINA HIGH MAST	DSF640XL57015X	Architectural Flood and Spot Luminaires	74765	113.3	660.1	5426	70	5			Not Yet Verified	Tier II
Carolina Product Solutions, LLC.	CPS	CPS-RT-60W-UH-40	Retrofit Kits for Outdoor Full-Cutoff Wall-Mounted Area Luminaires	7050.3	106.48	66.21	4161	67.2	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
cBright Lighting	cBright	CB-AP-100W [5000K, 38° Beam Angle]	Architectural Flood and Spot Luminaires	13936.44	123.77	112.6	5032	82.5	5			Not Yet Verified	Tier II
CEA GROUP INTERNATIONAL CO.,LTD	CEA/EAC	HBL3-200[3500K]	High-Bay Luminaires for Commercial and Industrial Buildings	23704	117.81	201.2	3471	80.8	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
CEA GROUP INTERNATIONAL CO.,LTD	CEA/EAC	HBL3-150[3500K]	High-Bay Luminaires for Commercial and Industrial Buildings	17729	113.06	156.8	3479	80.9	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Cireon, LLC	Cireon	ON1-024-AG-AJ	Parking Garage Luminaires	4036	103	39.12	5644	73	10			Not Yet Verified	Tier II
Civilight North America	CIVILIGHT	CUD216 WQ19 U1010	Downlight Solid State Retrofit	1250	75.2	19 3000K		93				Continuous Dimming	Tier I (or Tier II with networked controls)
CNA International Ent., Inc.	CNA	LED RT5/6-3000K	Downlight Solid State Retrofit	1200	80.9	15 3000K		83				Continuous Dimming	Tier I (or Tier II with networked controls)
Cnlight Co., Ltd.	Cnlight	BTT120/13RD08D81A	Downlight Solid State Retrofit	845	83.7	13 2700K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Cnlight Co., Ltd.	Cnlight	BTT120/13RD08D83A	Downlight Solid State Retrofit	845	83.7	13 2700K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Cnlight Co., Ltd.	Cnlight	BTT120/13RZ08D81A	Downlight Solid State Retrofit	850	86.4	13 5000K		86				Continuous Dimming	Tier I (or Tier II with networked controls)
Cnlight Co., Ltd.	Cnlight	BTT120/13RZ08D83A	Downlight Solid State Retrofit	850	86.4	13 5000K		84				Continuous Dimming	Tier I (or Tier II with networked controls)
Cnlight Co., Ltd.	Cnlight	BTT120/18RD08D83A	Downlight Solid State Retrofit	1170	76.9	18 2700K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Cnlight Co., Ltd.	Cnlight	BTT120/18RZ08D83A	Downlight Solid State Retrofit	1180	79.7	18 5000K		84				Continuous Dimming	Tier I (or Tier II with networked controls)
Cnlight Co., Ltd.	Cnlight	BTT120/9RZ08D83A	Downlight Solid State Retrofit	590	75.7	9 5000K		84				Continuous Dimming	Tier I (or Tier II with networked controls)
Conglom, Inc.	Luminus	PPR691	Downlight Solid State Retrofit	1200	75.2	19.3 3000K		93				Continuous Dimming	Tier I (or Tier II with networked controls)
ConTech Lighting	ConTech	CGL129035KMVD2A16FC	Low-Bay Luminaires for Commercial and Industrial Buildings	7049.17	119	59.41	3524	82	5			Not Yet Verified	Tier II
ConTech Lighting	ConTech Lighting	CL8630K12DC-MCLR-PA	Track or Mono-Point Directional Luminaires	3712.66	86	43	3076	83	5			Not Dimmable	Tier I
Con-Tech Lighting	Con-Tech Lighting	CTL802818LS35D-(P,B,S)	Accent Light Line-voltage	1364	80.9	18 3500K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Con-Tech Lighting	Con-Tech Lighting	CTL802818LS4D-(P,B,S)	Accent Light Line-voltage	1470	85.4	18 4000/4100K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Con-Tech Lighting	Con-Tech Lighting	CTL8061VM27D-(P,B,S)	Accent Light Line-voltage	941	81.8	11.5 2700K		80				Continuous Dimming	Tier I (or Tier II with networked controls)
Con-Tech Lighting	ConTech Lighting	CTL8051VS4D-(P,B,S)	Accent Light Line-voltage	1187	81.2	14 4000/4100K		85				Continuous Dimming	Tier I (or Tier II with networked controls)
Con-Tech Lighting	ConTech Lighting	CTL8052VS35D3-(P,B,S)	Accent Light Line-voltage	2114	75.4	28 3500K		83				Continuous Dimming	Tier I (or Tier II with networked controls)
Con-Tech Lighting	O3 LED Track Fixture	CTL8251V[S,M,F,W][27,3,35,4]D-[P,B,S]	Accent Light Line-voltage	1832	85.2	20 2700K		83				Continuous Dimming	Tier I (or Tier II with networked controls)
Con-Tech Lighting	O3 LED Track Fixture	CTL8252V[S,M,F,W][27,3,35,4]D-[P,B,S]	Accent Light Line-voltage	2582	91.4	29 2700K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Con-Tech Lighting	O3 LED Track Fixture	CTL8253V[S,M,F,W][27,3,35,4]D-[P,B,S]	Accent Light Line-voltage	3061	85.4	36 2700K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Con-Tech Lighting	O3 LED Track Fixture	CTL8254V[S,M,F,W][27,3,35,4]D-[P,B,S]	Accent Light Line-voltage	3505	82.4	42 2700K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Con-Tech Lighting	ConTech Lighting	CTL8051	Accent Light Line-voltage	1096	77.5	14 2700K		81				Continuous Dimming	Tier I (or Tier II with networked controls)
Con-Tech Lighting	ConTech Lighting	CTL8051VS35D-(P,B,S)	Accent Light Line-voltage	1163	80	14 3500K		83				Continuous Dimming	Tier I (or Tier II with networked controls)
Con-Tech Lighting	ConTech Lighting	CGL1210027KMVD2CWRS-P	Downlight Pendant	7718	85.3	90.5 2700K		81				Continuous Dimming	Tier I (or Tier II with networked controls)
Con-Tech Lighting	ConTech Lighting	CGL123227K12D1CMFC-P	Downlight Pendant	1982	75.3	26.3 2700K		81				Continuous Dimming	Tier I (or Tier II with networked controls)
Con-Tech Lighting	ConTech Lighting	CGL125427KMVD2CWRS-P	Downlight Pendant	3028	84.6	35.8 2700K		81				Continuous Dimming	Tier I (or Tier II with networked controls)
Con-Tech Lighting	R2ANC	R2ANC1MVD-[CP,ER]-UMOD[27K,30K,35K,40K][M,F]-[C2302,C2304,C2302SQ,C23045Q]-[BLK,CLR,PL,-WHT]	Downlight Recessed	885	85.2	11 2700K		83				Continuous Dimming	Tier I (or Tier II with networked controls)

Manufacturer	Brand	Model Number	LED Type	Light Output (lumens)	Efficacy (lumens per watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016-17 Tier Level (LEDA)
Con-Tech Lighting	R2ANC	R2ANC1MVD-UMOD[27K,30K,35K,40K][M,F]-[C2302,C2304,C2302SQ,C2304SQ][F-BLK,-CLR,-PL,-WHT]	Downlight Recessed	885	85.2	11	2700K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
		R2ANC2MVD-[CP,ER]-UMOD[27K,30K,35K,40K][M,F]-[C2302,C2304,C2302SQ,C2304SQ][F-BLK,-CLR,-PL,-WHT]	Downlight Recessed	1127	77.5	16	2700K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Con-Tech Lighting	R2ANC	R2ANC2MVD-UMOD[27K,30K,35K,40K][M,F]-[C2302,C2304,C2302SQ,C2304SQ][F-BLK,-CLR,-PL,-WHT]	Downlight Recessed	1127	77.5	16	2700K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
		R2ARM1[120,27D]-UMOD[27K,30K,35K,40K][M,F]-[C2302,C2304,C2302SQ,C2304SQ][F-BLK,-CLR,-PL,-WHT]	Downlight Solid State Retrofit	3439	91.2	37.7	4000/4100K	85				Continuous Dimming	Tier I (or Tier II with networked controls)
Con-Tech Lighting	R2ARM	R2ARM2[120,27D]-UMOD[27K,30K,35K,40K][M,F]-[C2302,C2304,C2302SQ,C2304SQ][F-BLK,-CLR,-PL,-WHT]	Downlight Solid State Retrofit	885	85.2	11	2700K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
		Con-Tech Lighting		1127	77.5	16	2700K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Con-Tech Lighting	Con-Tech Lighting	CTL8061	Accent Light Line-voltage	941	81.8	11.5	2700K	80				Non-Dimmable	Tier I
Con-Tech Lighting	ConTech Lighting	CTL8051V54N-(P,B,S)	Accent Light Line-voltage	1187	81.2	14	4000/4100K	85				Non-Dimmable	Tier I
Con-Tech Lighting	ConTech Lighting	CTL8052V535N-(P,B,S)	Accent Light Line-voltage	2114	75.4	28	3500K	83				Non-Dimmable	Tier I
Con-Tech Lighting	ConTech Lighting	CTL8051V535N-(P,B,S)	Accent Light Line-voltage	1163	80	14	3500K	81				Non-Dimmable	Tier I
CONXCORP	CONXCORP VIVIX	CNX-LPL-P1-5M-43-020-S-XXX-BRZ-700	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	4619.4	100.2	46.1	4206	74	5			Not Yet Verified	Tier II
CONXCORP	CONXCORP VIVIX	CNX-LRL4-P1-2M-42-012-S-700	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	2984.5	101	29.55	4332	73	5			Not Yet Verified	Tier II
CONXCORP	CONXCORP	CNX-LRL4-P1-5M-42-016-S-XXX-GRY-525	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	3045.6	108	28.17	4191	74	5			Not Yet Verified	Tier II
CONXCORP	CONXCORP	CNX-LRL4-P1-5M-42-016-S-XXX-GRY-700	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	3876.8	102	37.86	4216	74	5			Not Yet Verified	Tier II
CONXCORP	CONXCORP VIVIX	CNX-LPL-P2-5M-55-040-S-XXX-BRZ-525	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	7229	105	68.94	5088	72.5	5			Not Yet Verified	Tier II
CONXCORP	CONXCORP VIVIX	CNX-LRL4-P1-2M-42-024-M-700	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	5836.5	105	55.6	4359	74	5			Not Yet Verified	Tier II
Cordelia Lighting Inc.	EnviroLite	EVL3LICR373WH40	Downlight Recessed	632	76	8	4000/4100K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Cordelia Lighting Inc.	EnviroLite	EVL3LICR373WH50	Downlight Recessed	708	83	8	5000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Cordelia Lighting Inc.	EnviroLite	EVL4741AWH50	Downlight Solid State Retrofit	886	77	11	5000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Cordelia Lighting Inc.	EnviroLite	EVL4742AWH50	Downlight Solid State Retrofit	873	76	11	5000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Cordelia Lighting Inc.	EnviroLite	EVL5741AWH40	Downlight Solid State Retrofit	942	75	12	4000/4100K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Cordelia Lighting Inc.	EnviroLite	EVL5741AWH50	Downlight Solid State Retrofit	1023	79	12	5000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Cordelia Lighting Inc.	EnviroLite	EVL5742AWH40	Downlight Solid State Retrofit	1133	79	14	4000/4100K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Cordelia Lighting Inc.	EnviroLite	EVL5742AWH50	Downlight Solid State Retrofit	1170	85	13	5000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Cordelia Lighting Inc.	EnviroLite	EVL6041WH50	Downlight Solid State Retrofit	1070	75	16	5000K	80				Continuous Dimming	Tier I (or Tier II with networked controls)
Cordelia Lighting Inc.	EnviroLite	EVL6730AWH50	Downlight Solid State Retrofit	800	78	11	5000K	80				Continuous Dimming	Tier I (or Tier II with networked controls)
Cordelia Lighting Inc.	EnviroLite	EVL6742AWH50	Downlight Solid State Retrofit	1174	87	13	5000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Cordelia Lighting Inc.	EnviroLite	EVL6741AWH40	Downlight Solid State Retrofit	982	78	12	4000/4100K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Cordelia Lighting Inc.	EnviroLite	EVL6741AWH50	Downlight Solid State Retrofit	1081	84	12	5000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Cordelia Lighting Inc.	EnviroLite	EVL6742AWH35	Downlight Solid State Retrofit	1014	75	13	3500K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Cordelia Lighting Inc.	EnviroLite	EVL6742AWH40	Downlight Solid State Retrofit	1148	78	14	4000/4100K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Cree, Inc.	Cree CR Troffer	CR-LE-40LHE-30K-XXX	Direct Linear Ambient Luminaires	3915	131.68	29.73	3021	94	10			Not Yet Verified	Tier II
Cree, Inc.	Cree CXB High Bay	CXB-23L-40K-U-x-xx	High-Bay Luminaires for Commercial and Industrial Buildings	25324	110.68	228.8	4053	71	10			Not Yet Verified	Tier II
Cree, Inc.	Cree CS18	CS18-80LHE-35K-XXX	Low-Bay Luminaires for Commercial and Industrial Buildings	8160	119.05	68.54	3429	93	10			Not Yet Verified	Tier II
Cree, Inc.	Cree CS18	CS18-82LHE-35K-XXX	Low-Bay Luminaires for Commercial and Industrial Buildings	8337	115.74	72.03	3439	93	10			Not Yet Verified	Tier II
Cree, Inc.	Cree XSPW	BXSPWAX3FG-xxx	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	2691.5	110.17	24.46	3838	72	10			Not Yet Verified	Tier II
Cree, Inc.	Cree XSP Series B	BXSPBHT3MEA40K-UxxxQ4	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	3185.9	113	25.42	3838	74	10			Stepped	Tier II
Cree, Inc.	Cree XSPR Series	BXSPRAX2FE-Uxxxxxx	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	3548.9	107.57	32.99	3849	72	10			Continuous (Can dim down to ≤ 10% (W))	Tier II
Cree, Inc.	Cree XSPR Series	BXSPRAX2FF-Uxxxxxx	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	3125.7	110.37	28.32	3841	72	10			Continuous (Can dim down to ≤ 10% (W))	Tier II
Cree, Inc.	Cree LEDway HO	STRLWY3MExx1F-Uxxxx40Kxxx	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	8163	118.5	68.9	3732	71	10			Not Yet Verified	Tier II
Cree, Inc.	Cree LEDway HO	STRLWY3MExx2F-Uxxxx40Kxxx	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	15532	114.66	134.63	3753	71	10			Not Yet Verified	Tier II
Cree, Inc.	Cree 304 Series	PKG-304-5M-xx-04-E-Ux-xx-350-40K-xxxx	Parking Garage Luminaires	4656.8	105.55	45.01	3981	72	10			Not Yet Verified	Tier II
Cree, Inc.	Cree EDGE Parking Structure	PKG-EDG-5M-xx-02-E-xx-xx-350-40K-xxxx	Parking Garage Luminaires	2333	101.4	23	3917	73	10			Not Yet Verified	Tier II
Cree, Inc.	Cree EDGE Parking Structure	PKG-EDG-5M-xx-04-E-xx-xx-350-40K-xxxx	Parking Garage Luminaires	4728	105.3	44.9	4072	72	10			Not Yet Verified	Tier II
Cree, Inc.	Cree IG Series	IG-NM-5S-A-40K-xx-xx-xxx	Parking Garage Luminaires	3683.2	115.28	31.95	4098	85	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Cree, Inc.	Cree IG Series	IG-NM-5S-J-40K-xxx-xx-xxx	Parking Garage Luminaires	7276.1	112.35	65.03	4016	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Cree, Inc.	CREE, Inc.	DDS4-06027009-12DHW-1C100	Downlight Recessed	600	77.1	9	2700K	92				Continuous Dimming	Tier I (or Tier II with networked controls)

Manufacturer	Brand	Model Number	LED Type	Light Output (lumens)	Efficacy (lumens per Watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016-17 Tier Level (LEDA)
Cree, Inc.	CREE, Inc.	LR6-10L-27K-120V-A-DR	Downlight Solid State Retrofit	1006	93	10	2700K	93				Non-Dimmable	Tier I
Cree, Inc.	CREE, Inc.	LR6-10L-27K-120V-A-DR-US	Downlight Solid State Retrofit	1006	93	10	2700K	93				Non-Dimmable	Tier I
Cree, Inc.	CREE, Inc.	LR6-10L-27K-277V	Downlight Solid State Retrofit	907	91	9.9	2700K	90				Continuous Dimming	Tier I (or Tier II with networked controls)
Cree, Inc.	CREE, Inc.	LR6-10L-27K-GU24	Downlight Solid State Retrofit	909	92	9.9	2700K	90				Continuous Dimming	Tier I (or Tier II with networked controls)
Cree, Inc.	CREE, Inc.	LR6-10L-30K-120V-A-DR	Downlight Solid State Retrofit	1006	93	10	3000K	93				Non-Dimmable	Tier I
Cree, Inc.	CREE, Inc.	LR6-10L-30K-120V-A-DR-US	Downlight Solid State Retrofit	1006	93	10	3000K	93				Non-Dimmable	Tier I
Cree, Inc.	CREE, Inc.	LR6-10L-35K-120V-A-DR	Downlight Solid State Retrofit	1006	93	10	3500K	93				Non-Dimmable	Tier I
Cree, Inc.	CREE, Inc.	LR6-10L-35K-120V-A-DR-US	Downlight Solid State Retrofit	1006	93	10	3500K	93				Non-Dimmable	Tier I
Cree, Inc.	CREE, Inc.	LR6-10L-40K-120V-A-DR	Downlight Solid State Retrofit	1006	93	10	4000/4100K	93				Non-Dimmable	Tier I
Cree, Inc.	CREE, Inc.	LR6-10L-40K-120V-A-DR-US	Downlight Solid State Retrofit	1006	93	10	4000/4100K	93				Non-Dimmable	Tier I
Cree, Inc.	CREE, Inc.	LR6-18L-27K-120V-A-DR	Downlight Solid State Retrofit	1800	90	20	2700K	94				Continuous Dimming	Tier I (or Tier II with networked controls)
Cree, Inc.	CREE, Inc.	LR6-18L-27K-277V	Downlight Solid State Retrofit	1646	82.3	20	2700K	92				Continuous Dimming	Tier I (or Tier II with networked controls)
Cree, Inc.	CREE, Inc.	LR6-18L-27K-GU24	Downlight Solid State Retrofit	1624	75.6	21.5	2700K	92				Continuous Dimming	Tier I (or Tier II with networked controls)
Cree, Inc.	CREE, Inc.	LR6-18L-30K-120V-A-DR	Downlight Solid State Retrofit	1800	90	20	3000K	94				Continuous Dimming	Tier I (or Tier II with networked controls)
Cree, Inc.	CREE, Inc.	LR6-18L-35K-120V-A-DR	Downlight Solid State Retrofit	1800	90	20	3500K	94				Continuous Dimming	Tier I (or Tier II with networked controls)
Cree, Inc.	CREE, Inc.	LR6-18L-40K-120V-A-DR	Downlight Solid State Retrofit	1800	90	20	4000/4100K	94				Continuous Dimming	Tier I (or Tier II with networked controls)
Cree, Inc.	CREE, Inc.	LR6-7L-27K-277V	Downlight Solid State Retrofit	637	87	7.3	2700K	91				Continuous Dimming	Tier I (or Tier II with networked controls)
Cree, Inc.	CREE, Inc.	LR6-7L-27K-GU24-E26	Downlight Solid State Retrofit	605	86.8	7	2700K	91				Continuous Dimming	Tier I (or Tier II with networked controls)
Cree, Inc.	CREE, Inc.	LR6C-DR1000	Downlight Solid State Retrofit	970	78	12	3500K	94				Continuous Dimming	Tier I (or Tier II with networked controls)
Cree, Inc.	CREE, Inc.	LR6-DR1000	Downlight Solid State Retrofit	992	79	12	2700K	92				Continuous Dimming	Tier I (or Tier II with networked controls)
Cree, Inc.	CREE, Inc.	LR6-DR1000-277V	Downlight Solid State Retrofit	1012	82	12	2700K	93				Non-Dimmable	Tier I
Cree, Inc.	e-conolight	E-WR1L383U	Downlight Surface Mount	2650	75	35	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Cree, Inc.	e-conolight	E-WR1L384U	Downlight Surface Mount	2650	75	35	4000/4100K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Crystal Lighting Corporation	Crystal Lighting Corporation	CLW-DAISY14-52LED-50-120-277V-WH-DIM	Stairwell and Passageway Luminaires	4702.09	106	44.44	5264	85	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Curtis Mathes Inc	Curtis Mathes	CM56DL-7104-940	Downlight Solid State Retrofit	750	75.8	12.1	4000/4100K	93				Continuous Dimming	Tier I (or Tier II with networked controls)
Curtis Mathes Inc	Curtis Mathes	CM56DL-7105-940	Downlight Solid State Retrofit	900	77	16	4000/4100K	93				Continuous Dimming	Tier I (or Tier II with networked controls)
Curtis Mathes Inc	Curtis Mathes	CM56DL-7106-940	Downlight Solid State Retrofit	1200	75.2	19.3	4000/4100K	93				Continuous Dimming	Tier I (or Tier II with networked controls)
Cyber Tech Lighting Inc.	Eco-Star	LC10RT4-ECO/CW/4P	Downlight Recessed	820	78.1	10.5	5000K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Cyber Tech Lighting Inc.	Eco-Star	APP-DS-12W-13	Downlight Solid State Retrofit	930	76.2	12.5	3000K	92				Continuous Dimming	Tier I (or Tier II with networked controls)
Cyber Tech Lighting Inc.	Eco-Star	APP-DS-12W-14	Downlight Solid State Retrofit	970	80.8	12.5	4000/4100K	91				Continuous Dimming	Tier I (or Tier II with networked controls)
Cyber Tech Lighting Inc.	Eco-Star	APP-DS-12W-15	Downlight Solid State Retrofit	1060	85.7	12.5	5000K	91				Continuous Dimming	Tier I (or Tier II with networked controls)
Cyber Tech Lighting Inc.	Eco-Star	APP-DS-14W-14	Downlight Solid State Retrofit	1130	80.2	14.5	2700K	91				Continuous Dimming	Tier I (or Tier II with networked controls)
Cyber Tech Lighting Inc.	Eco-Star	APP-DS-14W-15	Downlight Solid State Retrofit	1200	83.7	14.5	5000K	91				Continuous Dimming	Tier I (or Tier II with networked controls)
Cyber Tech Lighting Inc.	Eco-Star	APP-DL-12W-15	Downlight Solid State Retrofit	1160	80.8	14.5	5000K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Cyber Tech Lighting Inc.	Eco-Star	APP-DL-12W-24	Downlight Solid State Retrofit	950	76.2	12.7	4000/4100K	95				Continuous Dimming	Tier I (or Tier II with networked controls)
Cyber Tech Lighting Inc.	Eco-Star	APP-DL-12W-25	Downlight Solid State Retrofit	980	81.7	12.7	5000K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Cyber Tech Lighting Inc.	Eco-Star	APP-DL-19W-14	Downlight Solid State Retrofit	1420	75.5	19	4000/4100K	95				Continuous Dimming	Tier I (or Tier II with networked controls)
Cyber Tech Lighting Inc.	Eco-Star	APP-DL-19W-15	Downlight Solid State Retrofit	1630	81.9	20	5000K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Cyber Tech Lighting Inc.	Eco-Star	APP-DS-10W-14	Downlight Solid State Retrofit	750	76.6	10	4000/4100K	90				Continuous Dimming	Tier I (or Tier II with networked controls)
Cyber Tech Lighting Inc.	Eco-Star	APP-DS-10W-15	Downlight Solid State Retrofit	790	80.6	10	5000K	91				Continuous Dimming	Tier I (or Tier II with networked controls)
DAGR Lighting	DAGR	TL1200.18W.277-347VAC.3000K.120D.C.D.DE	2-lamp External driver Lamp-style retrofit kits (UL Type C)	2182	123.21	17.71	3053	83	5			Not Yet Verified	Tier I
DAGR Lighting	DAGR	TL1200.18W.277-347VAC.3500K.120D.F.D.DE	2-lamp External driver Lamp-style retrofit kits (UL Type C)	1968	110.44	17.82	3033	84	5			Not Yet Verified	Tier I
DAGR Lighting	DAGR	TL1200.18W.277-347VAC.3000K.120D.F.D.DE	2-lamp External driver Lamp-style retrofit kits (UL Type C)	1968	110.44	17.82	3033	84	5			Not Yet Verified	Tier I
DayLight Technology USA	DayLight Technology USA	DL-P-30W	Parking Garage Luminaires	3253	103.2	31.52	5423	69.2	5			Not Yet Verified	Tier II
Daylight Technology USA	Daylight Technology USA	DL-30W-C	Parking Garage Luminaires	3253	103.2	31.52	5423	69.2	5			Not Yet Verified	Tier II
DECO Lighting	DECO LIGHTING	LUCERA-26-40-UNV	Direct Linear Ambient Luminaires	3223.128	118.979	27.09	3970	84.5	5			Stepped	Tier II
Deco Lighting	Deco Lighting	DLED-AFK8-30-30	Downlight Recessed	2100	79.2	31.1	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Deco Lighting	Deco Lighting	DLED-AFK8-30-35	Downlight Recessed	2200	79.2	31.1	3500K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Deco Lighting	Deco Lighting	DLED-AFK8-30-40	Downlight Recessed	2300	79.2	31.1	4000/4100K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Deco Lighting	Deco Lighting	DLED-AFK9-30-30	Downlight Recessed	2168	81.8	31.1	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Deco Lighting	Deco Lighting	DLED-AFK9-30-35	Downlight Recessed	2270	81.8	31.1	3500K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Deco Lighting	Deco Lighting	DLED-AFK9-30-40	Downlight Recessed	2390	81.8	31.1	4000/4100K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Deco Lighting	Deco Lighting	DLED-CFK8-30-30	Downlight Recessed	2100	79.2	31.1	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Deco Lighting	Deco Lighting	DLED-CFK8-30-35	Downlight Recessed	2200	79.2	31.1	3500K	81				Continuous Dimming	Tier I (or Tier II with networked controls)

Manufacturer	Brand	Model Number	LED Type	Light Output (lumens)	Efficacy (lumens per Watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016-17 Tier Level (LEDA)
Deco Lighting	Deco Lighting	DLED-CFK8-30-40	Downlight Recessed	2300	79.2	31.1	4000/4100K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Deco Lighting	Deco Lighting	DLED-RFK8-30-30	Downlight Recessed	2100	79.2	31.1	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Deco Lighting	Deco Lighting	DLED-RFK8-30-35	Downlight Recessed	2200	79.2	31.1	3500K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Deco Lighting	Deco Lighting	DLED-RFK8-30-40	Downlight Recessed	2300	79.2	31.1	4000/4100K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Deco Lighting	Deco Lighting	DLED-AFK4-23-30	Downlight Solid State Retrofit	1415	75.6	23	3000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Deco Lighting	Deco Lighting	DLED-AFK4-23-35	Downlight Solid State Retrofit	1485	75.6	23	3500K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Deco Lighting	Deco Lighting	DLED-AFK4-23-40	Downlight Solid State Retrofit	1500	75.6	23	4000/4100K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Deco Lighting	Deco Lighting	DLED-AFK6-23-30	Downlight Solid State Retrofit	1415	75.1	23	3000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Deco Lighting	Deco Lighting	DLED-AFK6-23-35	Downlight Solid State Retrofit	1485	75.1	23	3500K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Deco Lighting	Deco Lighting	DLED-AFK6-23-40	Downlight Solid State Retrofit	1500	75.1	23	4000/4100K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Deco Lighting	Deco Lighting	DLED-AFK8-23-30	Downlight Solid State Retrofit	1660	88.7	23	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Deco Lighting	Deco Lighting	DLED-AFK8-23-35	Downlight Solid State Retrofit	1740	88.7	23	3500K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Deco Lighting	Deco Lighting	DLED-AFK8-23-40	Downlight Solid State Retrofit	1820	88.7	23	4000/4100K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Deco Lighting	Deco Lighting	DLED-AFK9-23-30	Downlight Solid State Retrofit	1712	90.4	23	3000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Deco Lighting	Deco Lighting	DLED-AFK9-23-35	Downlight Solid State Retrofit	1790	90.4	23	3500K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Deco Lighting	Deco Lighting	DLED-AFK9-23-40	Downlight Solid State Retrofit	1850	90.4	23	4000/4100K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Deco Lighting	Deco Lighting	DLED-ARFK92327UNV	Downlight Solid State Retrofit	1631	76.2	23	2700K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Deco Lighting	Deco Lighting	DLED-CFK4-23-30	Downlight Solid State Retrofit	1415	75.6	23	3000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Deco Lighting	Deco Lighting	DLED-CFK4-23-35	Downlight Solid State Retrofit	1485	75.6	23	3500K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Deco Lighting	Deco Lighting	DLED-CFK4-23-40	Downlight Solid State Retrofit	1500	75.6	23	4000/4100K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Deco Lighting	Deco Lighting	DLED-CFK6-23-30	Downlight Solid State Retrofit	1415	75.1	23	3000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Deco Lighting	Deco Lighting	DLED-CFK6-23-35	Downlight Solid State Retrofit	1485	75.1	23	3500K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Deco Lighting	Deco Lighting	DLED-CFK6-23-40	Downlight Solid State Retrofit	1500	75.1	23	4000/4100K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Deco Lighting	Deco Lighting	DLED-CFK8-23-30	Downlight Solid State Retrofit	1660	88.7	23	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Deco Lighting	Deco Lighting	DLED-CFK8-23-35	Downlight Solid State Retrofit	1740	88.7	23	3500K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Deco Lighting	Deco Lighting	DLED-CFK8-23-40	Downlight Solid State Retrofit	1820	88.7	23	4000/4100K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Deco Lighting	Deco Lighting	DLED-RFK4-23-30	Downlight Solid State Retrofit	1415	75.6	23	3000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Deco Lighting	Deco Lighting	DLED-RFK4-23-35	Downlight Solid State Retrofit	1485	75.6	23	3500K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Deco Lighting	Deco Lighting	DLED-RFK4-23-40	Downlight Solid State Retrofit	1500	75.6	23	4000/4100K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Deco Lighting	Deco Lighting	DLED-RFK6-23-30	Downlight Solid State Retrofit	1415	75.1	23	3000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Deco Lighting	Deco Lighting	DLED-RFK6-23-35	Downlight Solid State Retrofit	1485	75.1	23	3500K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Deco Lighting	Deco Lighting	DLED-RFK6-23-40	Downlight Solid State Retrofit	1500	75.1	23	4000/4100K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Deco Lighting	Deco Lighting	DLED-RFK8-23-30	Downlight Solid State Retrofit	1660	88.7	23	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Deco Lighting	Deco Lighting	DLED-RFK8-23-35	Downlight Solid State Retrofit	1740	88.7	23	3500K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Deco Lighting	Deco Lighting	DLED-RFK8-23-40	Downlight Solid State Retrofit	1820	88.7	23	4000/4100K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Delviro	Delviro Energy	ARIUSSB-70-5K-U-CL-X-X-X-X	Architectural Flood and Spot Luminaires	8024	111.2	72.15	5277	81.75	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Delviro	Delviro Energy	ZIP4-20-3K-U-FR-X-X-X-X [120 ONLY]	Direct Linear Ambient Luminaires	2422	118.1	20.51	3039	84.57	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Delviro	Delviro Energy	ZIP4-60-3K-U-FR-X-X-X-X	Direct Linear Ambient Luminaires	6216	110.5	56.23	3101	83.12	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Delviro	Delviro Energy	ZIP4-30-3K-U-FR-X-X-X-X	Direct Linear Ambient Luminaires	3300	110.8	29.79	3121	84.36	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Delviro	Delviro Energy	VT4S-80-4K-H-CL-X-X-X-X	Direct Linear Ambient Luminaires	8844	111.6	79.26	4108	85.11	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Delviro	Delviro Energy	VT4S-30-4K-U-CL-X-X-X-X	Direct Linear Ambient Luminaires	3673	132.9	27.63	4044	84.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Delviro	Delviro Energy	DTL4-40-5K-U-NL-X-X-X-X	Direct Linear Ambient Luminaires	5160	115.8	44.58	5068	82	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Delviro	Delviro Energy	TitanHB-80-5K-U-CL-XX-WW-YY-XX	High-Bay Luminaires for Commercial and Industrial Buildings	9500	116.5	81.54	5141	83.85	5			Not Yet Verified	Tier II
Delviro	Delviro Energy	TitanHB-160-4K-U-CL-XX-XX-XX-XX	High-Bay Luminaires for Commercial and Industrial Buildings	19298	120.2	160.5	4123	85.03	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Delviro	Delviro Energy	VT4L-160-4K-U-CL-X-X-X-X	High-Bay Luminaires for Commercial and Industrial Buildings	19632	122.5	160.19	4102	83.95	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Delviro	Delviro Energy	VT4L-120-5K-H-CL-X-X-X-X	High-Bay Luminaires for Commercial and Industrial Buildings	16270	132.9	122.43	5081	82.62	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Delviro	Delviro Energy	VT4L-120-4K-U-CL-X-X-X-X	High-Bay Luminaires for Commercial and Industrial Buildings	15390	126.1	122.02	4102	83.95	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Delviro	Delviro Energy	ZIP4-60-3K-U-FR-X-X-X-X	Low-Bay Luminaires for Commercial and Industrial Buildings	6216	110.5	56.23	3101	83.12	5			Continuous (Can dim down to ≤ 10% (W))	Tier II

Manufacturer	Brand	Model Number	LED Type	Light Output (lumens)	Efficacy (lumens per Watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016-17 Tier Level (LEDA)
Delviro	Delviro Energy	ARIUSWPT-36-5K-U-CL-XX-FM-YY-ZZ	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	4266	119	35.85	5234	81.98	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Delviro	Delviro Energy	ARIUSWPT-40-5K-H-CL-XX-XX-XX-XX	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	4437	114.8	38.66	5141	81.79	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Delviro	Delviro Energy	ARIUSWPT-60-5K-U-CL-XX-FM-YY-ZZ	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	6935	114.2	60.72	5297	83.01	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Delviro	Delviro Energy	ARIUSWPT-60-5K-H-CL-XX-XX-XX-XX	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	6180	107	57.75	5208	83.11	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Delviro	Delviro Energy	AriusCB-45-5K-H-CL-X-X-X-X	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	4937	114.3	43.2	5103	82.38	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Delviro	Delviro Energy	ARIUSSB-70-5K-U-CL-X-X-X-X	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	8024	111.2	72.15	5277	81.75	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
De-Power Lighting & Electric Equipment Co.,Ltd	DE-POWER	GKL035-150A-30	High-Bay Luminaires for Commercial and Industrial Buildings	16329	112.85	144.7	3087	83.6	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Dialight	Vigilant High Bay	HELMC4PNSNG	High-Bay Luminaires for Commercial and Industrial Buildings	24079	112.5	214.4	5098	82	5			Not Yet Verified	Tier II
Dialight	Vigilant	HELMC4P[J,A,D]-xxx	High-Bay Luminaires for Commercial and Industrial Buildings	25088	118.4	211.9	4897	78.2	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Dialight	Vigilant High Bay	HEGMC4KNSNG	High-Bay Luminaires for Commercial and Industrial Buildings	17941	124.9	143.6	4934	77.5	10			Not Yet Verified	Tier II
Dialight	Vigilant High Bay	HEGMC4PNSNG	High-Bay Luminaires for Commercial and Industrial Buildings	26987	126.8	212.8	4915	77.8	10			Not Yet Verified	Tier II
Dialight	Vigilant	HELRN4DN-xxx	High-Bay Luminaires for Commercial and Industrial Buildings	10100	112.4	89.9	3880	74.1	10			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Dolan Designs	Dolan Designs	10906-05	Downlight Solid State Retrofit	1000	86.2	13	3000K	87				Continuous Dimming	Tier I (or Tier II with networked controls)
Dongbu Lightec	LumiDas Linear Highbay	SLH200-UM-24-ND	High-Bay Luminaires for Commercial and Industrial Buildings	24036.59	118.52	202.8	4022.2	82.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Dongbu Lightec	LumiDas Linear Highbay	SLH200-CH-24-ND-S	High-Bay Luminaires for Commercial and Industrial Buildings	24877	125.2	198.7	4036	83.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Dongbu Lightec	LumiDas Linear Highbay	SLH200-CH-24-ND	High-Bay Luminaires for Commercial and Industrial Buildings	24877	125.2	198.7	4036	83.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Dongbu Lightec	LumiDas Linear Highbay	SLH100-CH-12-ND	High-Bay Luminaires for Commercial and Industrial Buildings	11806	113.5	104.1	3999	81.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Dongguan Kelta	tli	TFL155K-15	Architectural Flood and Spot Luminaires	1721.61	107.88	15.96	4895	84.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Dongguan Kelta	Tii/Porta Systems	THBP135K [120V Only]	High-Bay Luminaires for Commercial and Industrial Buildings	11384.75	115.28	98.76	5246	83.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Dongguan Kelta	Tii/Porta Systems	THBP145K [120V Only]	High-Bay Luminaires for Commercial and Industrial Buildings	15278.53	113.54	134.57	5156	83.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Dongguan Kingsun Optoelectronic Co., Ltd	KINGSUN	DL562701	Downlight Solid State Retrofit	2100	79.3	27	3500K	84				Non-Dimmable	Tier I
DuraGuard	DuraGuard	TR2LF4X9U57K	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	3743	104.6	35.8	5928	78	5			Not Yet Verified	Tier II
EarthTronics, Inc.	EarthBulb	LRT4830D	Downlight Solid State Retrofit	550	78.4	8	3000K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Eaton (formerly Cooper Lighting)	Metalux	45NLED-LD4-52-UNV-L835-CD1-U	Direct Linear Ambient Luminaires	5119.34	111.21	46.03	3483	82	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Eaton (formerly Cooper Lighting)	Metalux	45NLED-LD4-52-UNV-L850-CD1-U	Direct Linear Ambient Luminaires	5391.71	117.87	45.74	4932	82.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Eaton (formerly Cooper Lighting)	Metalux	45KBLED-LD1-41-W-UNV-L850-CD1-U	Direct Linear Ambient Luminaires	4746.81	132.18	35.912	4779	82.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Eaton (formerly Cooper Lighting)	Metalux	4VT2-LD4-4-FR50-UNV-L835-CD1-WL-U	Direct Linear Ambient Luminaires	4358	114.7	38	3411	81.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Eaton (formerly Cooper Lighting)	Metalux	SSLED-LD1-12-N-UNV-L835-CD1-U	High-Bay Luminaires for Commercial and Industrial Buildings	13031.67	122.77	106.15	3392	83	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Eaton (formerly Cooper Lighting)	Metalux	SSLED-LD1-12-W-UNV-L850-CD1-U	High-Bay Luminaires for Commercial and Industrial Buildings	13704.91	128.62	106.56	4854	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Eaton (formerly Cooper Lighting)	Metalux	4ILED-LD4-5-W-UNV-L835-CD1-U	Low-Bay Luminaires for Commercial and Industrial Buildings	4856	131.6	36.9	3451	82.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Eaton (formerly Cooper Lighting)	STREETWORKS	NVN-AE-01-E-U-T35-7060	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	6029.15	106.43	56.65	5704	74	5			Not Yet Verified	Tier II
Eaton (formerly Cooper Lighting)	McGraw-Edison	TT-83-LED-DALI-WQ-5G-DIMRF-LW	Parking Garage Luminaires	4785.28	101.99	46.92	3784	71.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Eaton (formerly Cooper Lighting)	Halo Track	L805MEDSP840	Track or Mono-Point Directional Luminaires	1436	84.8	16.9	4002	84.6	5			Not Yet Verified	Tier I (or Tier II with networked controls)
Eaton (formerly Cooper Lighting)	Halo Track	L80248030	Track or Mono-Point Directional Luminaires	4058	82.8	49.02	3073	84.6	5			Not Yet Verified	Tier I (or Tier II with networked controls)
Eaton (formerly Cooper Lighting)	Halo Track	L80238040	Track or Mono-Point Directional Luminaires	3385.36	88.51	38.25	3976	86.6	5			Not Yet Verified	Tier I (or Tier II with networked controls)
Eaton (formerly Cooper Lighting)	Portfolio Wavestream	LSM35W9027D010TEP	Track or Mono-Point Directional Luminaires	3443.65	80.26	42.9	2614	94.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier I (or Tier II with networked controls)
Eaton (formerly Cooper Lighting)	Portfolio Wavestream	LSM35W8040D010TEP	Track or Mono-Point Directional Luminaires	4615	108.97	42.35	3827	82.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier I (or Tier II with networked controls)
Eaton (formerly Cooper Lighting)	Halo Track	L80815NF9040P	Track or Mono-Point Directional Luminaires	1620.21	78.34	20.68	3818	90.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier I (or Tier II with networked controls)
Eaton's Cooper Lighting Business	Halo	PD56R15ED010-PDM6A930-XXX	Downlight Recessed	1317	76	17.3	3000K	94				Continuous Dimming	Tier I (or Tier II with networked controls)
Eaton's Cooper Lighting Business	Halo	PD56R15ED010-PDM6A935-XXX	Downlight Recessed	1380	81.1	17	3500K	95				Continuous Dimming	Tier I (or Tier II with networked controls)
Eaton's Cooper Lighting Business	Halo	PD56R15ED010-PDM6A940-XXX	Downlight Recessed	1408	80.8	17.4	4000/4100K	93				Continuous Dimming	Tier I (or Tier II with networked controls)
Eaton's Cooper Lighting Business	Halo	PD610ED010-PDM6A827-XXXX	Downlight Recessed	1014	83.1	12.2	2700K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Eaton's Cooper Lighting Business	Halo	PD615ED010-PDM6A827-XXX	Downlight Recessed	1402	81.4	17.2	2700K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Eaton's Cooper Lighting Business	Halo	PD615ED010-PDM6A830-XXX	Downlight Recessed	1475	85.7	17.2	3000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Eaton's Cooper Lighting Business	Halo	PD615ED010-PDM6A835-XXX	Downlight Recessed	1548	90.5	17.1	3500K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Eaton's Cooper Lighting Business	Halo	PD615ED010-PDM6A840-XXX	Downlight Recessed	1553	88.1	17.6	4000/4100K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Eaton's Cooper Lighting Business	Halo	PD620ED010-PDM6A827-XXXX	Downlight Recessed	1696	77.3	22	2700K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Eaton's Cooper Lighting Business	Halo	PD56R15ED010-PDM6A827-XXX	Downlight Recessed	1570	91.5	17.2	2700K	82				Continuous Dimming	Tier I (or Tier II with networked controls)

Manufacturer	Brand	Model Number	LED Type	Light Output (Lumens)	Efficacy (lumens per Watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016-17 Tier Level (LEDA)
Eaton's Cooper Lighting Business	Halo	PD56R15ED010-PDM6A830-XXX	Downlight Recessed	1643	95.6	17.2	3000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Eaton's Cooper Lighting Business	Halo	PD56R15ED010-PDM6A835-XXX	Downlight Recessed	1745	101.4	17.2	3500K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Eaton's Cooper Lighting Business	Halo	PD56R15ED010-PDM6A840-XXX	Downlight Recessed	1701	96.9	17.6	4000/4100K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Eaton's Cooper Lighting Business	Halo	ML5606930	Downlight Recessed	744	78.8	9.5	3000K	94				Continuous Dimming	Tier I (or Tier II with networked controls)
Eaton's Cooper Lighting Business	Halo	ML5606935	Downlight Recessed	770	81.2	9.5	3500K	94				Continuous Dimming	Tier I (or Tier II with networked controls)
Eaton's Cooper Lighting Business	PORTFOLIO	LD8A901D010TE ER8A90827 XXXX	Downlight Recessed	8563	79.7	107.5	2700K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Eaton's Cooper Lighting Business	PORTFOLIO	LDA4A09B30D010TE XXXX	Downlight Recessed	1062	77.1	13.8	3000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Eaton's Cooper Lighting Business	PORTFOLIO	LDA4A09B35D010TE XXXX	Downlight Recessed	1111	80.6	13.8	3500K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Eaton's Cooper Lighting Business	PORTFOLIO	LDA4A09B40D010TE XXXX	Downlight Recessed	1156	83.7	13.8	4000/4100K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Eaton's Cooper Lighting Business	PORTFOLIO	LDA4A13840D010TE XXXX	Downlight Recessed	1720	77.9	22.1	4000/4100K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Eaton's Cooper Lighting Business	PORTFOLIO	LD8A1001D010TE ER8A100827 XXXX	Downlight Recessed	9739	81.1	120.1	2700K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Eaton's Cooper Lighting Business	Halo	RL460WH827	Downlight Solid State Retrofit	624	83.5	7.5	2700K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Eaton's Cooper Lighting Business	Halo	RL560WH6835	Downlight Solid State Retrofit	600	79.5	9.4	3500K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Eaton's Cooper Lighting Business	Halo	RL560WH9940	Downlight Solid State Retrofit	1012	76.4	13	4000/4100K	92				Continuous Dimming	Tier I (or Tier II with networked controls)
Eaton's Cooper Lighting Business	Halo	RL560WH6835	Downlight Solid State Retrofit	662	91.6	7.2	3500K	85				Continuous Dimming	Tier I (or Tier II with networked controls)
Eaton's Cooper Lighting Business	Halo	RL560WH6840	Downlight Solid State Retrofit	643	89.6	7.2	4000/4100K	86				Continuous Dimming	Tier I (or Tier II with networked controls)
Eaton's Cooper Lighting Business	Halo	RL460WH835	Downlight Solid State Retrofit	611	84.6	7.2	3500K	85				Continuous Dimming	Tier I (or Tier II with networked controls)
Eaton's Cooper Lighting Business	Halo	RL460WH840	Downlight Solid State Retrofit	740	102.6	7.2	4000/4100K	86				Continuous Dimming	Tier I (or Tier II with networked controls)
Eaton's Cooper Lighting Business	Halo	RL560WH6830	Downlight Solid State Retrofit	647	89.5	7.2	3000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Eaton's Cooper Lighting Business	Halo	RL560WH6827	Downlight Solid State Retrofit	696	86.7	8	2700K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Eaton's Cooper Lighting Business	Halo	RL560WH6930	Downlight Solid State Retrofit	610	76.1	8	3000K	91				Continuous Dimming	Tier I (or Tier II with networked controls)
Eaton's Cooper Lighting Business	Halo	RL560WH6940	Downlight Solid State Retrofit	689	80.1	8.6	4000/4100K	93				Continuous Dimming	Tier I (or Tier II with networked controls)
Eaton's Cooper Lighting Business	Halo	RL560WH9827	Downlight Solid State Retrofit	1020	79.1	13	2700K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Eaton's Cooper Lighting Business	Halo	RL560WH9830	Downlight Solid State Retrofit	1034	80.4	13	3000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Eaton's Cooper Lighting Business	Halo	RL560WH9835	Downlight Solid State Retrofit	1159	89.4	13	3500K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Eaton's Cooper Lighting Business	Halo	RL560WH9840	Downlight Solid State Retrofit	1196	90.9	13	4000/4100K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Eaton's Cooper Lighting Business	Halo	ML5612827	Downlight Solid State Retrofit	1479	86.2	17.2	2700K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Eaton's Cooper Lighting Business	Halo	ML5612935	Downlight Solid State Retrofit	1275	75.8	16.8	3500K	95				Continuous Dimming	Tier I (or Tier II with networked controls)
Eaton's Cooper Lighting Business	Halo	SLD612835WH	Downlight Surface Mount	1251	86	14.7	3500K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Eaton's Cooper Lighting Business	Halo	SLD612827WHUNVJB	Downlight Surface Mount	1162	81.2	14.3	2700K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Eaton's Cooper Lighting Business	Halo	SLD612830WH	Downlight Surface Mount	1232	84.1	14.7	3000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Eaton's Cooper Lighting Business	Halo	SLD612830WHUNVJB	Downlight Surface Mount	1218	86.2	14.1	3000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Eaton's Cooper Lighting Business	Halo	SLD612827WH	Downlight Surface Mount	1156	78.4	14.8	2700K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Eaton's Cooper Lighting Business	Halo	SLD612835WHUNVJB	Downlight Surface Mount	1266	89.1	14.2	3500K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Eaton's Cooper Lighting Business	Halo	SLD612840WH	Downlight Surface Mount	1375	93	14.8	4000/4100K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Eaton's Cooper Lighting Business	Halo	SLD612840WHUNVJB	Downlight Surface Mount	1380	95.7	14.4	4000/4100K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Eaton's Crouse-Hinds Business	Champ	[VMV/PVM]5L [2C/3C]R1[A/B]/[UNV1/UNV34]	Low-Bay Luminaires for Commercial and Industrial Buildings	4849	114.9	42.24	4977	74.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Eaton's Crouse-Hinds Business	Champ	[VMV/PVM]3L [2TW/3TW]R3/[UNV1/UNV34]	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	3236	113.5	28.48	4842	73.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Eco LED Bright, Inc.	Eco bright	DW56IN-16W-5K	Downlight Solid State Retrofit	800	77	16	5000K	93				Continuous Dimming	Tier I (or Tier II with networked controls)
Eco LED Bright, Inc.	ECO LED BRIGHT INC	DW4IN-9W-2.7K	Downlight Solid State Retrofit	600	85	9	2700K	93				Continuous Dimming	Tier I (or Tier II with networked controls)
Eco LED Bright, Inc.	ECO LED BRIGHT INC	DW4IN-9W-3K	Downlight Solid State Retrofit	600	84	9	3000K	91				Continuous Dimming	Tier I (or Tier II with networked controls)
Eco LED Bright, Inc.	ECO LED BRIGHT INC	DW4IN-9W-4K	Downlight Solid State Retrofit	600	88	9	4000/4100K	94				Continuous Dimming	Tier I (or Tier II with networked controls)
Eco LED Bright, Inc.	ECO LED BRIGHT INC	DW4IN-9W-5K	Downlight Solid State Retrofit	600	90	9	5000K	93				Continuous Dimming	Tier I (or Tier II with networked controls)
Eco LED Bright, Inc.	ECO LED BRIGHT INC	DW56IN-13W-4K	Downlight Solid State Retrofit	800	76	13	4000/4100K	93				Continuous Dimming	Tier I (or Tier II with networked controls)
Eco LED Bright, Inc.	ECO LED BRIGHT INC	DW56IN-13W-5K	Downlight Solid State Retrofit	800	78	13	5000K	93				Continuous Dimming	Tier I (or Tier II with networked controls)
Eco Lighting Solutions	FlexTech	FTSQ-456-50-AP-U-XX	Parking Garage Luminaires	6905.6	107.87	64.16	5175	73.1	5			Not Yet Verified	Tier II
Eco Lighting Solutions	FlexTech	FTSQ-470-50-AP-U-XX	Parking Garage Luminaires	8841	105.64	83.69	5187	73.3	5			Not Yet Verified	Tier II
Eco Lighting Solutions	FlexTech	FTSQ-445-50-AP-U-XX-C	Parking Garage Luminaires	5140	112.24	45.8	5183	73.6	5			Stepped	Tier II
Ecomax Lighting	ECOMAX LIGHTING	SUN-RKPUS-100WD2(4000K)	Retrofit Kits for Outdoor Full-Cutoff Wall-Mounted Area Luminaires	11695	113.96	102.6	3979	83.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II

Manufacturer	Brand	Model Number	LED Type	Light Output (Lumens)	Efficacy (lumens per Watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016-17 Tier Level (LEDA)
Ecomax Lighting	ECOMAX LIGHTING	SUN-RKPUS-80WV2(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	9402.5	112.59	83.69	3992	83.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Ecomax Lighting	ECOMAX LIGHTING	SUN-RKPUS-120WV2(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	14082	113.34	124.2	3990	83.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Ecomax Lighting	ECOMAX LIGHTING	SUN-RKPUS-150WV2(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	18376	119.91	153.2	4003	83.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Ecomax Lighting	ECOMAX LIGHTING	SUN-RKPUS-120WD2(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	15057	115.82	130	3998	83.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Ecomax Lighting	ECOMAX LIGHTING	SUN-RKPUS-150WD2(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	18709	123.25	151.8	4007	83.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Ecomax Lighting	ECOMAX LIGHTING	SUN-RKPUS-200WD2(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	27078	129.15	210.2	3990	83.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Ecomax Lighting	ECOMAX LIGHTING	SUN-RKPUS-240WD2(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	28013	118.15	237.8	4001	83.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Ecomax Lighting	ECOMAX LIGHTING	SUN-RKPUS-300WD2(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	35288	116.35	303.8	3995	83.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Ecomax Lighting	ECOMAX LIGHTING	SUN-RKPUS-300WD2-HV(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	34952	117.21	298.2	3996	83.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Ecomax Lighting	ECOMAX LIGHTING	SUN-RKPUS-400WD2(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	47542	113.38	420.5	3996	83.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Ecomax Lighting	ECOMAX LIGHTING	SUN-RKPUS-480WD2(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	53085	112.97	470.5	4010	83.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
E-conolight	E-conolight	E-CP2L04CX	Parking Garage Luminaires	4119	100.88	40.83	4697	73	5			Not Yet Verified	Tier II
E-conolight	E-conolight	E-RC2L04CW	Parking Garage Luminaires	4119	100.88	40.83	4697	73	5			Not Yet Verified	Tier II
Ecopower Inc.	ECOPOWER LED	VTP4ST38WCWV4-B01-8[02.03.04]	Stairwell and Passageway Luminaires	4224	107.2	39.42	4639	72	5			Not Yet Verified	Tier II
Elco Lighting	ELCO LIGHTING	EL 61030W	Downlight Solid State Retrofit	750	75.8	12	3000K					Continuous Dimming	Tier I (or Tier II with networked controls)
Elco Lighting	ELCO LIGHTING	EL 61130W	Downlight Recessed	900	77	16	3000K					Continuous Dimming	Tier I (or Tier II with networked controls)
Elec-Tech International Co.,Ltd.	Whirlpool	WD6L271B	Downlight Recessed	650	75	10	2700K					Continuous Dimming	Tier I (or Tier II with networked controls)
Elec-Tech International Co.,Ltd.	ETI	531151XX	Downlight Recessed	650	75	10	2700K					Continuous Dimming	Tier I (or Tier II with networked controls)
Elec-Tech International Co.,Ltd.	ETI	531151XX	Downlight Recessed	650	75	10	2700K					Continuous Dimming	Tier I (or Tier II with networked controls)
Elec-Tech International Co.,Ltd.	ETI	531151XX	Downlight Recessed	650	75	10	2700K					Continuous Dimming	Tier I (or Tier II with networked controls)
Elec-Tech International Co.,Ltd.	ETI	531151XX	Downlight Recessed	650	75	10	2700K					Continuous Dimming	Tier I (or Tier II with networked controls)
Elec-Tech International Co.,Ltd.	ETI	531151XX	Downlight Recessed	650	75	10	2700K					Continuous Dimming	Tier I (or Tier II with networked controls)
Elec-Tech International Co.,Ltd.	ETI	531611XX	Downlight Solid State Retrofit	1400	82.9	20	2700K					Continuous Dimming	Tier I (or Tier II with networked controls)
Elec-Tech International Co.,Ltd.	ETI	531611XX	Downlight Solid State Retrofit	1400	82.9	20	3000K					Continuous Dimming	Tier I (or Tier II with networked controls)
Elec-Tech International Co.,Ltd.	ETI	531611XX	Downlight Solid State Retrofit	1400	82.9	20	3500K					Continuous Dimming	Tier I (or Tier II with networked controls)
Elec-Tech International Co.,Ltd.	ETI	531611XX	Downlight Solid State Retrofit	1400	82.9	20	4000/4100K					Continuous Dimming	Tier I (or Tier II with networked controls)
Elec-Tech International Co.,Ltd.	ETI	531611XX	Downlight Solid State Retrofit	1400	82.9	20	5000K					Continuous Dimming	Tier I (or Tier II with networked controls)
Electric Zone Inc.	EZ IN TOUCH WITH TOMORROW	EZ-D106-6-2700K	Downlight Recessed	1100	75.2	15	2700K					Continuous Dimming	Tier I (or Tier II with networked controls)
Electric Zone Inc.	EZ IN TOUCH WITH TOMORROW	EZ-D106-6-3000K	Downlight Recessed	1100	75.2	15	2700K					Continuous Dimming	Tier I (or Tier II with networked controls)
Electric Zone Inc.	EZ IN TOUCH WITH TOMORROW	EZ-D106-6-4000K	Downlight Recessed	1100	75.2	15	2700K					Continuous Dimming	Tier I (or Tier II with networked controls)
Elite Lighting	Elite Lighting	B6-GU24-IC-AT	Downlight Recessed	1380	80	18	2700K					Non-Dimmable	Tier I
EnduraliteLED	EnduraliteLED	ELH8-P1-60W-5K	Direct Linear Ambient Luminaires	7418.39	123.564	60.037	4894	84.3	5			Not Yet Verified	Tier II
Energetic Lighting Inc.	Energetic	AES-GDL40K	Downlight Solid State Retrofit	700	87.3	11.5	5000K					Continuous Dimming	Tier I (or Tier II with networked controls)
Energetic Lighting Inc.	Energetic	AES-GDL40K	Downlight Solid State Retrofit	700	87.3	11.5	5000K					Continuous Dimming	Tier I (or Tier II with networked controls)
Energetic Lighting Inc.	Energetic	ELDLX-E45TW	Downlight Solid State Retrofit	550	77	7.5	3000K					Continuous Dimming	Tier I (or Tier II with networked controls)
Energetic Lighting Inc.	Energetic	ELDLX-E4WTW	Downlight Solid State Retrofit	550	77	7.5	2700K					Continuous Dimming	Tier I (or Tier II with networked controls)
Energetic Lighting Inc.	Energetic	ELDLX-E6CTW	Downlight Solid State Retrofit	750	81	11.5	4000/4100K					Continuous Dimming	Tier I (or Tier II with networked controls)
Energetic Lighting Inc.	Energetic	ELDLX-E65TW	Downlight Solid State Retrofit	750	81	11.5	3000K					Continuous Dimming	Tier I (or Tier II with networked controls)
Energetic Lighting Inc.	Energetic	ELDLX-E6WTW	Downlight Solid State Retrofit	750	81	11.5	2700K					Continuous Dimming	Tier I (or Tier II with networked controls)
Energetic Lighting Inc.	Energetic	ELDLX-EH6CTW	Downlight Solid State Retrofit	1200	77	18	4000/4100K					Continuous Dimming	Tier I (or Tier II with networked controls)
Energetic Lighting Inc.	Energetic	ELDLX-EH65TW	Downlight Solid State Retrofit	1200	77	18	3000K					Continuous Dimming	Tier I (or Tier II with networked controls)
Energetic Lighting Inc.	Energetic	ELDLX-EH6WTW	Downlight Solid State Retrofit	1200	77	18	2700K					Continuous Dimming	Tier I (or Tier II with networked controls)
Energetic Lighting Inc.	Energetic	ELYSL-5001C	Downlight Surface Mount	3600	87.5	48	4000/4100K					Non-Dimmable	Tier I
Energy Efficient Lighting Co., Ltd.	EEL	ELWP080LED50VW-XX-YY	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	8445.2	107.6	78.5	5030	80.2	5			Not Yet Verified	Tier II
Energy Efficient Lighting Co., Ltd.	EEL	ELAR080LED50III-XX-YY	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	8367.9	106.7	78.4	4989	76.7	5			Not Yet Verified	Tier II
Energy Harness Corporation	Energy Harness	EHIA8-T515-27K	Direct Linear Ambient Luminaires	1739.9	114.17	15.24	2753	82.7	5			Not Yet Verified	Tier II
Energy Planning Associates	Envirobrite	FST404050-XXXXXX	Direct Linear Ambient Luminaires	3859	127.5	30.29	5231	82.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Energy Planning Associates	Envirobrite	FST402535-XXXXXX	Direct Linear Ambient Luminaires	2412	112.2	21.5	3546	84.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Energy Planning Associates	Envirobrite	FVT42250	Direct Linear Ambient Luminaires	2194	111.2	19.73	5258	83.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Energy Progress Lighting LLC.	Energy Progress Lighting	EPL-CNP-120W-RK(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	14082	113.34	124.2	3990	83.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Energy Solutions International	Energy Solutions International	F-18VX-P4N-50-FR	Direct Linear Ambient Luminaires	5585	110.62	50.485	4859	84.95	5			Continuous (Can dim down to ≤ 10% (W))	Tier II

Manufacturer	Brand	Model Number	LED Type	Light Output (lumens)	Efficacy (lumens per Watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016-17 Tier Level (LEDA)
Energy Solutions International	ESI	F-22DT-F3V-50-D	High-Bay Luminaires for Commercial and Industrial Buildings	11560	116.3	99.43	5200	83.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Energy Solutions International	ESI	F-14ME-WR-L2V-35-FR-X	High-Bay Luminaires for Commercial and Industrial Buildings	9272	111	83.54	3607	82.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Energy Solutions International	ESI	F-14ME-EA-L2V-35-FR-X	High-Bay Luminaires for Commercial and Industrial Buildings	9341	112.5	83.02	5332	83.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Energy Solutions International	ESI	F-22DT-F5V-50 F-14PL-P4N-50	High-Bay Luminaires for Commercial and Industrial Buildings Parking Garage Luminaires	19710	117.1	168.38	5106	83.51	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Energy Solutions International	Energy Solutions International	F-12PL-P2V-50-CD-D	Parking Garage Luminaires	4670	124.8	37.422	5135	83.87	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Energy Solutions International	Energy Solutions International			4176	105.7	40.17	5182	83.88	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Energy Solutions International	Energy Solutions International	F-14PL-P4H-50-CD-D	Parking Garage Luminaires	6714	108.27	62.012	5096	83.06	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Energy Tech Solutions	Energy Tech Solutions, LLC	RFK175-ET30-FLEX	Retrofit Kits for Outdoor Full-Cutoff Wall-Mounted Area Luminaires	2273	110	20.65	5482	87.8	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Energy Tech Solutions	Energy Tech Solutions	RFK175-ET30-INV	Retrofit Kits for Outdoor Full-Cutoff Wall-Mounted Area Luminaires	4022	108	37.28	5261	88.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
enLux Lighting	enLux	DL1-TC-120V_3_2700K	Downlight Recessed	1057	78.9	13.4	2700K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
enLux Lighting	enLux	DL1-TC-120V_3_3000K	Downlight Recessed	1123	83.8	13.4	3000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
enLux Lighting	enLux	DL1-TC-120V_3_3500K	Downlight Recessed	1185	88.4	13.4	3500K	86				Continuous Dimming	Tier I (or Tier II with networked controls)
enLux Lighting	enLux	DL1-TC-120V_3_4000K	Downlight Recessed	1191	88.9	13.4	4000/4100K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
enLux Lighting	enLux	DL2-TC-120V_1_2700K	Downlight Recessed	3202	75.9	42	2700K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
enLux Lighting	enLux	DL2-TC-120V_1_3000K	Downlight Recessed	3388	80.3	42	3000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
enLux Lighting	enLux	DL2-TC-120V_1_3500K	Downlight Recessed	3430	81.7	42	3500K	85				Continuous Dimming	Tier I (or Tier II with networked controls)
enLux Lighting	enLux	DL2-TC-120V_1_4000K	Downlight Recessed	3639	87.3	42	4000/4100K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Ensol Energy Management Solutions Inc.	ENSOL LED	ENS-T50L1200-15W(2700K)	Direct Linear Ambient Luminaires	1739.9	114.17	15.24	2753	82.7	5			Not Yet Verified	Tier II
Ephesus Lighting, Inc.	Ephesus Lighting	SD-650-2-56 [277V to 480V]	Architectural Flood and Spot Luminaires	74820	112	670.9	5433	68	5			Not Yet Verified	Tier II
Ephesus Lighting, Inc.	Ephesus Lighting	SD-1000-2-56 [277V to 480V]	Architectural Flood and Spot Luminaires	114119	110.9	1028.6	5449	68	5			Not Yet Verified	Tier II
ePower Manufacturing, LLC	ePower	EPH-HA-100-G-50	High-Bay Luminaires for Commercial and Industrial Buildings	11860	122.2	97.06	5005	81.8	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
ePower Manufacturing, LLC	ePower	EPH-HA-100-P-50	High-Bay Luminaires for Commercial and Industrial Buildings	11380	117.4	96.95	4933	81.7	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Eran Industries	Eran Industries	FL360-020W-40K-W66-8-D-XX-XX-X	Architectural Flood and Spot Luminaires	2180.631	111.34	19.59	4071	72.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Eran Industries	Eran Industries	FL370-040W-50K-W66-8-D-XX-XX-X	Architectural Flood and Spot Luminaires	4396.5	112.98	38.91	4954	73	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Eran Industries	Eran Industries Ltd.	FL400-103W-40K-W66-8-D-XX-XX-X	Architectural Flood and Spot Luminaires	11113.3	110.3	100.76	3938	70.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Eran Industries	Eran Industries Ltd.	WPL280-052W-40K-8-D-XX-XX	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	5430.6	109.26	49.7	3976	72.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Etlin-Daniels/Green Lighting Energy/Epic Lighting Solutions	Etlin-Daniels	RTFA4-23U35D	Downlight Surface Mount	1485	75.6	23	3500K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Etlin-Daniels/Green Lighting Energy/Epic Lighting Solutions	Etlin-Daniels	RTFA4-23U3D	Downlight Surface Mount	1415	75.6	23	3000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Etlin-Daniels/Green Lighting Energy/Epic Lighting Solutions	Etlin-Daniels	RTFA4-23U4D	Downlight Surface Mount	1500	75.6	23	4000/4100K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Etlin-Daniels/Green Lighting Energy/Epic Lighting Solutions	Etlin-Daniels	RTFA4-23U5D	Downlight Surface Mount	1578	75.6	23	5000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Etlin-Daniels/Green Lighting Energy/Epic Lighting Solutions	Etlin-Daniels	RTFA6-23U35D	Downlight Surface Mount	1485	75.1	23	3500K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Etlin-Daniels/Green Lighting Energy/Epic Lighting Solutions	Etlin-Daniels	RTFA6-23U3D	Downlight Surface Mount	1415	75.1	23	3000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Etlin-Daniels/Green Lighting Energy/Epic Lighting Solutions	Etlin-Daniels	RTFA6-23U4D	Downlight Surface Mount	1500	75.1	23	4000/4100K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Etlin-Daniels/Green Lighting Energy/Epic Lighting Solutions	Etlin-Daniels	RTFA6-23U5D	Downlight Surface Mount	1570	75.1	23	5000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Etlin-Daniels/Green Lighting Energy/Epic Lighting Solutions	Etlin-Daniels	RTFA8-23U35D	Downlight Surface Mount	1740	88.7	23	3500K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Etlin-Daniels/Green Lighting Energy/Epic Lighting Solutions	Etlin-Daniels	RTFA8-23U3D	Downlight Surface Mount	1660	88.7	23	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Etlin-Daniels/Green Lighting Energy/Epic Lighting Solutions	Etlin-Daniels	RTFA8-23U4D	Downlight Surface Mount	1820	88.7	23	4000/4100K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Etlin-Daniels/Green Lighting Energy/Epic Lighting Solutions	Etlin-Daniels	RTFA8-23U5D	Downlight Surface Mount	1855	88.7	23	5000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Etlin-Daniels/Green Lighting Energy/Epic Lighting Solutions	Etlin-Daniels	RTFA8-30U35D	Downlight Surface Mount	2200	79.2	31.1	3500K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Etlin-Daniels/Green Lighting Energy/Epic Lighting Solutions	Etlin-Daniels	RTFA8-30U3D	Downlight Surface Mount	2100	79.2	31.1	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Etlin-Daniels/Green Lighting Energy/Epic Lighting Solutions	Etlin-Daniels	RTFA8-30U4D	Downlight Surface Mount	2300	79.2	31.1	4000/4100K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Etlin-Daniels/Green Lighting Energy/Epic Lighting Solutions	Etlin-Daniels	RTFA8-30U5D	Downlight Surface Mount	2354	79.2	31.1	5000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Etlin-Daniels/Green Lighting Energy/Epic Lighting Solutions	Etlin-Daniels	RTFA9-23U2D	Downlight Surface Mount	1631	76.2	23	2700K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Etlin-Daniels/Green Lighting Energy/Epic Lighting Solutions	Etlin-Daniels	RTFA9-23U35D	Downlight Surface Mount	1790	90.4	23	3500K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Etlin-Daniels/Green Lighting Energy/Epic Lighting Solutions	Etlin-Daniels	RTFA9-23U3D	Downlight Surface Mount	1712	90.4	23	3000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Etlin-Daniels/Green Lighting Energy/Epic Lighting Solutions	Etlin-Daniels	RTFA9-23U4D	Downlight Surface Mount	1850	90.4	23	4000/4100K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Etlin-Daniels/Green Lighting Energy/Epic Lighting Solutions	Etlin-Daniels	RTFA9-23U5D	Downlight Surface Mount	1892	90.4	23	5000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Etlin-Daniels/Green Lighting Energy/Epic Lighting Solutions	Etlin-Daniels	RTFA9-30U35D	Downlight Surface Mount	2270	81.8	31.1	3500K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Etlin-Daniels/Green Lighting Energy/Epic Lighting Solutions	Etlin-Daniels	RTFA9-30U3D	Downlight Surface Mount	2168	81.8	31.1	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)

Manufacturer	Brand	Model Number	LED Type	Light Output (lumens)	Efficacy (lumens per Watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016-17 Tier Level (LEDA)
Etlin-Daniels/Green Lighting Energy/Epic Lighting Solutions	Etlin-Daniels	RTFA9-30U4D	Downlight Surface Mount	2390	81.8	31.1	4000/4100K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Etlin-Daniels/Green Lighting Energy/Epic Lighting Solutions	Etlin-Daniels	RTFA9-30U5D	Downlight Surface Mount	2432	81.8	31.1	5000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Euri Lighting	Euri lighting	DLC-1000e	Downlight Recessed	675	88.2	10	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Euri Lighting	Euri lighting	DLC-1020e	Downlight Recessed	870	88.1	10	2700K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Euri Lighting	Euri lighting	DLC-1040e	Downlight Recessed	870	89.6	10	4000/4100K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Euri Lighting	Euri lighting	DLC-1050e	Downlight Recessed	870	90.2	10	5000K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Every Watt Matters	Every Watt Matters	HS-14-30-MED-CA03-840-YX-354	High-Bay Luminaires for Commercial and Industrial Buildings	36644	120.5	304.19	4197	86	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Every Watt Matters	Every Watt Matters	HS-14-30-MED-CA06-840-YX-354	High-Bay Luminaires for Commercial and Industrial Buildings	37495	122.8	305.35	4149	86	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Every Watt Matters	Every Watt Matters	HS-14-20-MED-CA03-840-YX-354	High-Bay Luminaires for Commercial and Industrial Buildings	25406	125.9	201.85	4168	86.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Every Watt Matters	Every Watt Matters	HS-14-20-MED-CA06-840-YX-354	High-Bay Luminaires for Commercial and Industrial Buildings	25311	122.7	206.34	4166	86	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Every Watt Matters	Every Watt Matters	HS-14-30-MED-CA10-850-YX-354	High-Bay Luminaires for Commercial and Industrial Buildings	34114	110.9	307.73	5082	84.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Every Watt Matters	Every Watt Matters	HS-14-20-MED-CA10-850-YX-354	High-Bay Luminaires for Commercial and Industrial Buildings	22253	117.6	189.26	4929	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Excellence Opto, Inc.	e-lite star	ESU-DA012M012425-700	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	4619.4	100.2	46.1	4206	74	5			Not Yet Verified	Tier II
Excellence Opto, Inc.	e-lite star	ESU-DA015M016425-700	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	2984.5	101	29.55	4332	73	5			Not Yet Verified	Tier II
Excellence Opto, Inc.	e-lite star	ESU-DA015M016425-700	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	3876.8	102	37.86	4216	74	5			Not Yet Verified	Tier II
Excellence Opto, Inc.	e-lite star	ESU-DA015M016425-525	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	3045.6	108	28.17	4191	74	5			Not Yet Verified	Tier II
Excellence Opto, Inc.	e-lite star	ESU-BA025M040555-525	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	7229	105	68.94	5088	72.5	5			Not Yet Verified	Tier II
Excellence Opto, Inc.	e-lite star	ESU-DA012M02442M-700	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	5836.5	105	55.6	4359	74	5			Not Yet Verified	Tier II
Fine Technix Co., Ltd	VEGALUX	HU150L2-L850(BA-A1R)	High-Bay Luminaires for Commercial and Industrial Buildings	21043	135.9	154.8	5081	83.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Foxconn Technology Pte. Ltd.	FOXCONN	101-U180B-X	High-Bay Luminaires for Commercial and Industrial Buildings	21580.01	117.24	185.73	5004	75	5			Not Yet Verified	Tier II
Foxconn Technology Pte. Ltd.	FOXCONN	101-U200A-X	High-Bay Luminaires for Commercial and Industrial Buildings	23472.25	111.25	210.99	5026	75.2	5			Not Yet Verified	Tier II
Foxconn Technology Pte. Ltd.	FOXCONN	101-U200B-X	High-Bay Luminaires for Commercial and Industrial Buildings	22905.85	114.91	200.96	5044	75.5	5			Not Yet Verified	Tier II
Foxconn Technology Pte. Ltd.	FOXCONN	101-U120A-X	High-Bay Luminaires for Commercial and Industrial Buildings	14982.41	117.85	127.38	4992	75.2	5			Not Yet Verified	Tier II
Foxconn Technology Pte. Ltd.	FOXCONN	101-U120B-X	High-Bay Luminaires for Commercial and Industrial Buildings	14560.06	116.76	124.74	5010	74.9	5			Not Yet Verified	Tier II
Foxconn Technology Pte. Ltd.	FOXCONN	101-U150A-X	High-Bay Luminaires for Commercial and Industrial Buildings	18595.46	118.48	156.84	4981	75.3	5			Not Yet Verified	Tier II
Foxconn Technology Pte. Ltd.	FOXCONN	101-U150B-X	High-Bay Luminaires for Commercial and Industrial Buildings	18647.36	116.9	160.09	4967	75.1	5			Not Yet Verified	Tier II
Foxconn Technology Pte. Ltd.	FOXCONN	101-U180A-X	High-Bay Luminaires for Commercial and Industrial Buildings	21834.13	118.19	184.94	5040	75.5	5			Not Yet Verified	Tier II
Foxconn Technology Pte. Ltd.	FOXCONN	908-U140B-X	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	16043	112.17	143.13	5226	71.4	5			Not Yet Verified	Tier II
Foxconn Technology Pte. Ltd.	FOXCONN	908-U140A-X	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	15807.74	110.07	143.24	5160	71.2	5			Not Yet Verified	Tier II
Foxconn Technology Pte. Ltd.	FOXCONN	908-U235B-X	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	26664.83	110.56	241.52	5266	71.3	5			Not Yet Verified	Tier II
Foxconn Technology Pte. Ltd.	FOXCONN	908-U280A-X	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	31555.63	110.62	285.21	5206	71.1	5			Not Yet Verified	Tier II
Foxconn Technology Pte. Ltd.	FOXCONN	908-U280B-X	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	32438.32	113.97	285.41	5232	70.9	5			Not Yet Verified	Tier II
FSC Lighting	FSC Lighting	L85(24, 48, 96)-1-12WT/2'-30K-94%-OSD (Excludes HCRI-S Option)	Stairwell and Passageway Luminaires	1551.82	104	14.92	3079	85	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
FSC Lighting	FSC Lighting	L85(24, 48, 96)-1-25WT/4'-30K-94%-OSD (Excludes HCRI-S Option)	Stairwell and Passageway Luminaires	2970.09	105	28.2	3062	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
FUDAKINLED LIGHTING LTD.	FUDAKINLED	FDK-DLG-27-04-08-XXK-D	Downlight Recessed	600	76.2	8.2	2700K	87				Continuous Dimming	Tier I (or Tier II with networked controls)
FUDAKINLED LIGHTING LTD.	FUDAKINLED	FDK-DLB-12-04-12-30K-D	Downlight Solid State Retrofit	850	79.3	12	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
FUDAKINLED LIGHTING LTD.	FUDAKINLED	FDK-DLB-12-04-12-40K-D	Downlight Solid State Retrofit	850	79.3	12	4000/4100K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
FUDAKINLED LIGHTING LTD.	FUDAKINLED	FDK-DLB-12-06-19-30K-D	Downlight Solid State Retrofit	1200	79.9	19	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
FUDAKINLED LIGHTING LTD.	FUDAKINLED	FDK-DLB-12-06-19-40K-D	Downlight Solid State Retrofit	1200	79.9	19	4000/4100K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
FUDAKINLED LIGHTING LTD.	FUDAKINLED	FDK-DLG-27-06-12-27K-D	Downlight Solid State Retrofit	1100	89.1	13	2700K	87				Continuous Dimming	Tier I (or Tier II with networked controls)
FUDAKINLED LIGHTING LTD.	FUDAKINLED	FDK-DLG-27-06-12-30K-D	Downlight Solid State Retrofit	1100	89.1	13	3000K	87				Continuous Dimming	Tier I (or Tier II with networked controls)
FUDAKINLED LIGHTING LTD.	FUDAKINLED	FDK-DLG-27-06-12-35K-D	Downlight Solid State Retrofit	1100	89.1	13	3500K	87				Continuous Dimming	Tier I (or Tier II with networked controls)
FUDAKINLED LIGHTING LTD.	FUDAKINLED	FDK-DLG-27-06-12-40K-D	Downlight Solid State Retrofit	1100	89.1	13	4000/4100K	87				Continuous Dimming	Tier I (or Tier II with networked controls)
FUDAKINLED LIGHTING LTD.	FUDAKINLED	FDK-DLG-27-06-12-50K-D	Downlight Solid State Retrofit	1100	89.1	13	5000K	87				Continuous Dimming	Tier I (or Tier II with networked controls)
Fujian Juan Kuang Yaming Electric Ltd	JK Lighting, Resilient	FL12-60W-S540-D1-GLC-WM	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	7773	111.1	69.9	3930	69.2	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Fujian Juan Kuang Yaming Electric Ltd	JK Lighting, Resilient	FL23-240W-S540-D1-GLC-WM	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	27875	110.2	253	4112	70.1	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Fujian Juan Kuang Yaming Electric Ltd	JK Lighting, Resilient	FL23-300W-S540-D1-GLC-WM	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	34805	111.9	311.1	3923	68.9	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Fujian Juan Kuang Yaming Electric Ltd	JK Lighting, Resilient	FL23-180W-S540-D1-GLC-WM	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	22231	117.2	189.7	4103	70.1	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II

Manufacturer	Brand	Model Number	LED Type	Light Output (Lumens)	Efficacy (lumens per Watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016-17 Tier Level (LEDA)
Fujian Juan Kuang Yaming Electric Ltd	JK Lighting, Resilient	FL23-300W-C540-D1-GLC-WM	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	36000	114.3	315.1	4153	76.9	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Fujian Juan Kuang Yaming Electric Ltd	JK Lighting, Resilient	FL12-100W-C540-D1-GLC-WM	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	12291	116.5	105.5	4052	76	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Fujian Juan Kuang Yaming Electric Ltd	JK Lighting, Resilient	FL12-100W-C550-D1-GLC-WM	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	12432	113.8	109.2	4964	74	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Fujian Juan Kuang Yaming Electric Ltd	JK Lighting, Resilient	FL13-150W-C540-D1-GLC-WM	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	17582	113.2	155.4	4126	76.8	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Fujian Juan Kuang Yaming Electric Ltd	JK Lighting, Resilient	FL12-80W-S540-D1-GLC-WM	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	10422	114.3	91.1	3954	69.2	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Fujian Juan Kuang Yaming Electric Ltd	JK Lighting, Resilient	FL13-120W-S540-D1-GLC-WM	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	14056	112.1	125.4	4112	70.3	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Fujian Juan Kuang Yaming Electric Ltd	JK Lighting, Resilient	FL12-60W-S540-D1-GLC-[SFV, SSF, SFL]	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	7773	111.1	69.9	3930	69.2	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Fujian Juan Kuang Yaming Electric Ltd	JK Lighting	FL12-100W-S540-D1-GLC-[All Mounting Options, qualified point straight down only]	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	12318	116.6	105.7	3890	69	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Fujian Juan Kuang Yaming Electric Ltd	JK Lighting	FL13-150W-S540-D1-GLC-[All Mounting Options, qualified point straight down only]	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	17990	115	156.4	4052	70	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Fujian Juan Kuang Yaming Electric Ltd	JK Lighting, Resilient	FL23-240W-S540-D1-GLC-[SFV, SSF]	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	27875	110.2	253	4112	70.1	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Fujian Juan Kuang Yaming Electric Ltd	JK Lighting, Resilient	FL23-300W-S540-D1-GLC-[SFV, SSF]	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	34805	111.9	311.1	3923	68.9	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Fujian Juan Kuang Yaming Electric Ltd	JK Lighting, Resilient	FL23-180W-S540-D1-GLC-[SFV, SSF]	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	22231	117.2	189.7	4103	70.1	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Fujian Juan Kuang Yaming Electric Ltd	JK Lighting, Resilient	FL23-300W-C540-D1-GLC-[SFV, SSF]	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	36000	114.3	315.1	4153	76.9	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Fujian Juan Kuang Yaming Electric Ltd	JK Lighting, Resilient	FL12-100W-C540-D1-GLC-[SFV, SSF, SFL]	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	12291	116.5	105.5	4052	76	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Fujian Juan Kuang Yaming Electric Ltd	JK Lighting, Resilient	FL12-100W-C550-D1-GLC-[SFV, SSF, SFL]	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	12432	113.8	109.2	4964	74	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Fujian Juan Kuang Yaming Electric Ltd	JK Lighting, Resilient	FL13-150W-C540-D1-GLC-[SFV, SSF, SFL]	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	17582	113.2	155.4	4126	76.8	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Fujian Juan Kuang Yaming Electric Ltd	JK Lighting, Resilient	FL12-80W-S540-D1-GLC-[SFV, SSF, SFL]	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	10422	114.3	91.1	3954	69.2	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Fujian Juan Kuang Yaming Electric Ltd	JK Lighting, Resilient	FL13-120W-S540-D1-GLC-[SFV, SSF, SFL]	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	14056	112.1	125.4	4112	70.3	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
FY Lighting Co., Ltd	Fen Yong	FY-HB-060W-LS0K182B	Direct Linear Ambient Luminaires	7418.39	123.564	60.037	4894	84.3	5			Not Yet Verified	Tier II
FY Lighting Co., Ltd	Fen Yong	FY-T8-1200EC (H30K120C)	2-lamp External driver Lamp-style retrofit kits (UL Type C)	2182	123.21	17.71	3053	83	5			Not Yet Verified	Tier I
FY Lighting Co., Ltd	Fen Yong	FY-T8-1200EF (H30K120C)	2-lamp External driver Lamp-style retrofit kits (UL Type C)	1968	110.44	17.82	3033	84	5			Not Yet Verified	Tier I
G&G LED, LLC	WPX Series	WPX8-80L-50K	Low-Bay Luminaires for Commercial and Industrial Buildings	7915	112	70.52	5071	83.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
GE Lighting	GE Lighting	96836	Downlight Solid State Retrofit	700	75	10	2700K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
GE Lighting	GE Lighting	LED10RS4/827E26P	Downlight Solid State Retrofit	700	75	10	2700K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
GE Lighting	GE Lighting	LED10RS4/827GUP	Downlight Solid State Retrofit	700	75	10	2700K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
GE Lighting	GE Lighting	LED10RS4/830E26P	Downlight Solid State Retrofit	700	75	10	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
GE Lighting	GE Lighting	LED10RS4/830GUP	Downlight Solid State Retrofit	700	75	10	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
GE Lighting	GE Lighting	LED10RS4/E26PB	Downlight Solid State Retrofit	700	75	10	2700K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
GE Lighting	GE Lighting	LED13RS6/827E26P	Downlight Solid State Retrofit	1000	83.8	13	2700K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
GE Lighting	GE Lighting	LED13RS6/830E26P	Downlight Solid State Retrofit	1000	83.8	13	3000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
GE Lighting	GE Lighting	RX815xxxMV	Downlight Solid State Retrofit	1000	78.7	14	3000K	82				Non-Dimmable	Tier I
GE Lighting	GE Lighting	RX815xxxMV	Downlight Solid State Retrofit	1500	83.9	19.5	3000K	83				Non-Dimmable	Tier I
GE Lighting	GE Lighting	RX830xxxMV	Downlight Solid State Retrofit	3000	94.8	36	3000K	83				Non-Dimmable	Tier I
GE Lighting Solutions	GE Lumination	WS-4W-0-A3-S-V-WHITE	Direct Linear Ambient Luminaires	8070.3	112.9	71.5	4046	82.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
GE Lighting Solutions	GE Lumination	WS-4N-0-A3-S-V-WHITE	Direct Linear Ambient Luminaires	5676.4	112.4	50.5	4065	83.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
GE Lighting Solutions	GE Luminations	IS-[1, C, S]4-0-A2-M-[V, D]-SLVR	Direct Linear Ambient Luminaires	3904.5	117	33.4	3419	83.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
GE Lighting Solutions	GE Luminations	IS-[1, C, S]4-0-B2-M-[V, D]-XXXX	Direct Linear Ambient Luminaires	4808.4	111.5	43.1	3438	83.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
GE Lighting Solutions	GE Lighting	IS180A3M[D,V]SLVR-EL	Direct Linear Ambient Luminaires	8374	110.2	76	3970	85	5			Not Yet Verified	Tier II
GE Lighting Solutions	Albeo	ALR1D1V4718xxxxxxxxxxx	High-Bay Luminaires for Commercial and Industrial Buildings	7114.7	122.5	58.1	3951	73.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
GE Lighting Solutions	Albeo	ALR1D1H4718xxxxxxxxxxx	High-Bay Luminaires for Commercial and Industrial Buildings	10181.2	131.5	77.4	3947	73.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
GE Lighting Solutions	GE Luminations	IS-[1, C, S]4-0-B2-M-[V, D]-XXXX	Low-Bay Luminaires for Commercial and Industrial Buildings	4808.4	111.5	43.1	3438	83.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
GE Lighting Solutions	Albeo	ALR1D1H4714xxxxxxxxxxx	Low-Bay Luminaires for Commercial and Industrial Buildings	5312.1	126.5	42	3939	72.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
GE Lighting Solutions	GE Lighting Evolve	ERL1-1-02-A1-30-[A,D,E]-XXXX-XXX	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	1795.9	116.5	15.4	3035	71.7	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
GE Lighting Solutions	GE Lighting Evolve	ERL1-[0,1,2,3,4]-06-A1-30-[A,D,E]-XXXX-XXX	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	5429.4	105.2	51.2	3047	71.2	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
GE Lighting Solutions	Evolve	E2SA-0-A1-A5-1-40-X-X-X-XXX	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	4072	108.3	37.6	3993	73	5			Not Yet Verified	Tier II
GE Lighting Solutions	GE Lighting Evolve	ERS-1-[S,D,H]-10-A1-X-40-[A,D]-XXXX-XXX	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	9870.5	110.1	89.7	4045	72.2	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
GE Lighting Solutions	GE Lighting Evolve	EAL-S-01-[0,1,2,3,4,5,D,H]-DSSM-7-30-X-X-XX-XXXX-XXXXXX	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	9733.2	119.9	81.2	3075	71.8	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
GE Lighting Solutions	Evolve	E2SA-0-B1-A3-1-40-X-X-X-XXX	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	6051	112.3	53.9	4007	73	5			Not Yet Verified	Tier II
Generation Brands	Sea Gull Lighting	146035-1STRVGLP6W27120WHS2BX	Downlight Solid State Retrofit	841	76.2	11	2700K	84				Continuous Dimming	Tier I (or Tier II with networked controls)

Manufacturer	Brand	Model Number	LED Type	Light Output (lumens)	Efficacy (lumens per Watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016-17 Tier Level (LEDA)
Giese Lighting Company	Giese Lighting	HLB-2-L-40-W-ED-U	High-Bay Luminaires for Commercial and Industrial Buildings	12171	135.7	89.69	4138	84.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Giese Lighting Company	Giese Lighting	HLB-2-H-40-W-ED-U	High-Bay Luminaires for Commercial and Industrial Buildings	22805	123.1	185.3	4137	85.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Giese Lighting Company	Giese Lighting	HLB-2-H-50-W-ED-U	High-Bay Luminaires for Commercial and Industrial Buildings	24226.5	132.356	183.04	5345	84.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Global Energy & Lighting	Blaze LED	GEL-HB-100W-5K-50-D	High-Bay Luminaires for Commercial and Industrial Buildings	11810.16	114.064	103.54	5064	73.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Global Energy & Lighting	Blaze LED	GEL-HB-100W-3K-50-D	High-Bay Luminaires for Commercial and Industrial Buildings	11480.45	112.136	102.38	3047	73	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Global Energy & Lighting	Blaze LED	GEL-HB-120W-3K-50-D	High-Bay Luminaires for Commercial and Industrial Buildings	13613.418	110.391	123.32	3051	73	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Global Energy Efficiency Holdings	G-Lite	LU-1G-484345.XX [120V]	Direct Linear Ambient Luminaires	4585	110	41.7	4726	83	5			Not Yet Verified	Tier II
Global Energy Efficiency Holdings	G-Lite	LU-1G-483345.XX [120V]	Direct Linear Ambient Luminaires	3491	111.5	31.3	4639	82.5	5			Not Yet Verified	Tier II
Global Energy Efficiency Holdings	G-Lite	TR-1G-489945.3X	High-Bay Luminaires for Commercial and Industrial Buildings	10632	114	93.3	4478	82	5			Not Yet Verified	Tier II
Global Energy Efficiency Holdings	G-Lite	PA-1G-486645.2X[120V]	Low-Bay Luminaires for Commercial and Industrial Buildings	7153	120	59.58	4647	83.8	5			Not Yet Verified	Tier II
GoldenGadgets	ProjectLED	PRJ-DL56-14W-3K LED-1850-W 13W	Downlight Solid State Retrofit	900	77.6	14.1	3000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Grandlite International Corp	Grandlite		Outdoor Full-Cutoff Wall-Mounted Area Luminaires	1398	102.57	13.63	5058	75	5			Not Yet Verified	Tier II
Green Apple International, Ltd	Green Apple International Ltd	GAI-06-LED-T5-4-15W(2700K)	Direct Linear Ambient Luminaires	1739.9	114.17	15.24	2753	82.7	5			Not Yet Verified	Tier II
Green Creative	Green Creative	8TRSG4DIM/830/NF30/B/H	Accent Light Line-voltage	625	82.2	8.8	3000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Green Creative	Green Creative	8TRSG4DIM/827/NF30/B/H	Accent Light Line-voltage	600	91.1	8.8	2700K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Green Creative	Green Creative	8TRSG4DIM/827/NF30/B/I	Accent Light Line-voltage	600	91.1	8.8	2700K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Green Creative	Green Creative	8TRSG4DIM/827/NF30/B/L	Accent Light Line-voltage	600	91.1	8.8	2700K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Green Creative	Green Creative	8TRSG4DIM/827/NF30/W/H	Accent Light Line-voltage	600	91.1	8.8	2700K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Green Creative	Green Creative	8TRSG4DIM/827/NF30/W/I	Accent Light Line-voltage	600	91.1	8.8	2700K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Green Creative	Green Creative	8TRSG4DIM/827/NF30/W/L	Accent Light Line-voltage	600	91.1	8.8	2700K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Green Creative	Green Creative	8TRSG4DIM/830/NF30/B/I	Accent Light Line-voltage	625	82.2	8.8	3000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Green Creative	Green Creative	8TRSG4DIM/830/NF30/B/L	Accent Light Line-voltage	625	82.2	8.8	3000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Green Creative	Green Creative	8TRSG4DIM/830/NF30/W/H	Accent Light Line-voltage	625	82.2	8.8	3000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Green Creative	Green Creative	8TRSG4DIM/830/NF30/W/I	Accent Light Line-voltage	625	82.2	8.8	3000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Green Creative	Green Creative	8TRSG4DIM/830/NF30/W/L	Accent Light Line-voltage	625	82.2	8.8	3000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Green Creative	Green Creative	8TRSG4DIM/840/NF30/B/H	Accent Light Line-voltage	600	91.1	8.8	4000/4100K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Green Creative	Green Creative	22CDL6G4DIM/827/277V	Downlight Solid State Retrofit	1600	80.5	22	2700K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Green Creative	Green Creative	22CDL6G4DIM/830/277V	Downlight Solid State Retrofit	1600	80.5	22	3000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Green Creative	Green Creative	22CDL6G4DIM/835/277V	Downlight Solid State Retrofit	1600	80.5	22	3500K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Green Creative	Green Creative	22CDL6G4DIM/840/277V	Downlight Solid State Retrofit	1600	80.5	22	4000/4100K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Green Creative	Green Creative	32CDL8G4DIM/840/277V	Downlight Solid State Retrofit	2150	76.9	32	4000/4100K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Green Creative	Green Creative	32CDL8G4DIM/827/277V	Downlight Solid State Retrofit	2150	76.9	32	2700K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Green Creative	Green Creative	32CDL8G4DIM/830/277V	Downlight Solid State Retrofit	2150	76.9	32	3000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Green Creative	Green Creative	32CDL8G4DIM/835/277V	Downlight Solid State Retrofit	2150	76.9	32	3500K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Green Creative	Green Creative	48CDL9.5G4DIM/827/277V	Downlight Solid State Retrofit	3200	78.3	48	2700K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Green Creative	Green Creative	48CDL9.5G4DIM/830/277V	Downlight Solid State Retrofit	3200	78.3	48	3000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Green Creative	Green Creative	48CDL9.5G4DIM/835/277V	Downlight Solid State Retrofit	3200	78.3	48	3500K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Green Creative	Green Creative	48CDL9.5G4DIM/840/277V	Downlight Solid State Retrofit	3200	78.3	48	4000/4100K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Green Creative	Green Creative	105MDL4G4DIM/927	Downlight Surface Mount	600	78	10	2700K	92				Continuous Dimming	Tier I (or Tier II with networked controls)
Green Creative	Green Creative	14.55MDL6G4DIM/840	Downlight Surface Mount	1150	88.8	14.5	4000/4100K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Green Creative	Green Creative	14.55MDL6G4DIM/930	Downlight Surface Mount	950	79.2	14.5	3000K	92				Continuous Dimming	Tier I (or Tier II with networked controls)
Green Ignite	Green Ignite	GI-RKD-D175-DLC	Retrofit Kits for Outdoor Full-Cutoff Wall-Mounted Area Luminaires	4468.9	108.07	41.35	4089	67	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Green Ignite	Green Ignite	GI-RKD-D250-480DLC	Retrofit Kits for Outdoor Full-Cutoff Wall-Mounted Area Luminaires	7050.3	106.48	66.21	4161	67.2	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Greenlite Lighting Corporation	Greenlite	23W/LED/RC-6/D/277V/40K	Downlight Recessed	1700	80.5	23	4000/4100K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Greenlite Lighting Corporation	Greenlite	33W/LED/RC-8/D/277V/40K	Downlight Recessed	2400	76.9	33	4000/4100K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Guangzhou Ledia Lighting Technology Company Limited	LEDIA	LD-PD-D040-30Y	Direct Linear Ambient Luminaires	4163.44	111.25	37.42	2976	83.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Guangzhou Ledia Lighting Technology Company Limited	LEDIA	LD-PD-D040-30C	Direct Linear Ambient Luminaires	4727.77	126.12	37.49	2980	83	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Guangzhou Ledia Lighting Technology Company Limited	LEDIA	LD-PD-D036-30C	Direct Linear Ambient Luminaires	4214.26	123.9	34.01	2984	82.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
H.E. Williams, Inc.	H.E. Williams, Inc.	75-8-LED-PH67-840-96HSG-EDD-PH-BD-UNV	Direct Linear Ambient Luminaires	5942	122.9	48.363	4098	83.74	5			Continuous (Can dim down to ≤ 10% (W))	Tier II

Manufacturer	Brand	Model Number	LED Type	Light Output (lumens)	Efficacy (lumens per Watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016-17 Tier Level (LEDA)
H.E. Williams, Inc.	H.E. Williams, Inc.	75-8-LED-PH60-840-96HSG-EDD-PH-BD-UNV	Direct Linear Ambient Luminaires	5344	125.4	42.601	4096	83.75	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
H.E. Williams, Inc.	H.E. Williams, Inc.	75-4-LED-PH34-840-48HSG-EDD-PH-BD-UNV	Direct Linear Ambient Luminaires	2895	112.7	25.686	4073	83.85	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
H.E. Williams, Inc.	Williams Linear	76-4-L53-840-DRV-UNV	Direct Linear Ambient Luminaires	5288	110	48.087	3975	83.36	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
H.E. Williams, Inc.	Williams Linear	82-4-L107-840-DRV-UNV	Direct Linear Ambient Luminaires	10730	123.3	87.017	3956	82.31	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
H.E. Williams, Inc.	Williams Linear	80-4-L63-840-DRV-UNV	Direct Linear Ambient Luminaires	6278	121.5	51.662	4052	84.44	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
H.E. Williams, Inc.	Williams Linear	GLN-4-L105/840-DRV-UNV [All options, excluding WG]	Direct Linear Ambient Luminaires	10500	123	85.355	3974	82.29	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
H.E. Williams, Inc.	H.E. Williams	GL-4-L200/840-DIM-UNV	High-Bay Luminaires for Commercial and Industrial Buildings	20450	120.9	169.2	3994	82.65	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
H.E. Williams, Inc.	H.E. Williams	GL-4-L150/840-DIM-UNV	High-Bay Luminaires for Commercial and Industrial Buildings	15470	110.5	104.05	3954	83.78	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
H.E. Williams, Inc.	H.E. Williams	GL-4-L300/840-DIM-UNV	High-Bay Luminaires for Commercial and Industrial Buildings	30430	117.6	258.83	3975	83.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
H.E. Williams, Inc.	H.E. Williams	GL-4-L260/840-DIM-UNV	High-Bay Luminaires for Commercial and Industrial Buildings	27050	123.1	219.71	3984	82.68	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
H.E. Williams, Inc.	Voltaire	VWMH-LED17-840-XXX-XXX-EDD*IN-UNV [SDGL Option Not Qualified]	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	1731	108.4	15.964	3991	82.05	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Hangzhou Junction Imp. and Exp. Co., Ltd	THINKLUX LIGHTING	TKUDL0104-7.5W-827	Downlight Solid State Retrofit	550	77	7.5	2700K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Hangzhou Junction Imp. and Exp. Co., Ltd	THINKLUX LIGHTING	TKUDL0104-7.5W-840	Downlight Solid State Retrofit	550	77	7.5	4000/4100K	85				Continuous Dimming	Tier I (or Tier II with networked controls)
Hangzhou Junction Imp. and Exp. Co., Ltd	THINKLUX LIGHTING	TKUDL0106-11.5W-827	Downlight Solid State Retrofit	750	81	11.5	2700K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Hangzhou Junction Imp. and Exp. Co., Ltd	THINKLUX LIGHTING	TKUDL0106-11.5W-840	Downlight Solid State Retrofit	750	81	11.5	4000/4100K	85				Continuous Dimming	Tier I (or Tier II with networked controls)
Hangzhou Junction Imp. and Exp. Co., Ltd	THINKLUX LIGHTING	TKUDL0106-18W-827	Downlight Solid State Retrofit	1200	77	18	2700K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Hangzhou Junction Imp. and Exp. Co., Ltd	THINKLUX LIGHTING	TKUDL0106-18W-840	Downlight Solid State Retrofit	1200	77	18	4000/4100K	85				Continuous Dimming	Tier I (or Tier II with networked controls)
Hangzhou ZGSM Technology Co., Ltd.	ZGSM	ZGSM-GCD40HB57-60-ND	Architectural Flood and Spot Luminaires	4134.4	104.2	39.66	5633	72	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Helius Illumination	HI(Pattern)	XL6	High-Bay Luminaires for Commercial and Industrial Buildings	28820	113.6	253.69	4951.7	71.7	5			Not Yet Verified	Tier II
Helius Illumination	helius illumination	XL6S	High-Bay Luminaires for Commercial and Industrial Buildings	31171.3	114.92	271.2	5193	72.6	5			Not Yet Verified	Tier II
Helius Illumination	helius illumination	XL6Z5	High-Bay Luminaires for Commercial and Industrial Buildings	32050.6	124.92	256.6	5057	72.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Helius Illumination	Helius illumination	PL1	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	5827.42	112.62	51.74	4967	73	5			Not Yet Verified	Tier II
Hengdian Group Tospo Lighting Co., Ltd.	Tospo	TP120-RT4-DIM-E1-G3-VE	Downlight Solid State Retrofit	550	78.4	8	2700K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Hengdian Group Tospo Lighting Co., Ltd.	Tospo	TP120-RT4-DIM-E1-G3-VE-3000K	Downlight Solid State Retrofit	550	78.4	8	3000K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Hengdian Group Tospo Lighting Co., Ltd.	Tospo	TP120-RT4-DIM-E1-G3-VE-4000K	Downlight Solid State Retrofit	550	78.4	8	4000/4100K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Hengdian Group Tospo Lighting Co., Ltd.	Tospo	TP120-RT4-DIM-E2-G3-2700K	Downlight Solid State Retrofit	850	75.9	12	2700K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Hengdian Group Tospo Lighting Co., Ltd.	Tospo	TP120-RT4-DIM-G2-VE	Downlight Solid State Retrofit	650	80.1	9.4	2700K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Hengdian Group Tospo Lighting Co., Ltd.	Tospo	TP120-RT4-DIM-G2-VE-3000K	Downlight Solid State Retrofit	650	80.1	9.4	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Hengdian Group Tospo Lighting Co., Ltd.	Tospo	TP120-RT4-DIM-G2-VE-4000K	Downlight Solid State Retrofit	650	80.1	9.4	4000/4100K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Hengdian Group Tospo Lighting Co., Ltd.	Tospo	TP120-RT5/6-DIM-E1-G3-2700K	Downlight Solid State Retrofit	850	75.9	12	2700K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Hengdian Group Tospo Lighting Co., Ltd.	Tospo	TP120-RT5/6-DIM-E1-G3-2700K	Downlight Solid State Retrofit	850	75.9	12	2700K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Hengdian Group Tospo Lighting Co., Ltd.	Tospo	TP120-RT5/6-DIM-E1-G3-VE	Downlight Solid State Retrofit	650	75.2	10	2700K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Hengdian Group Tospo Lighting Co., Ltd.	Tospo	TP120-RT5/6-DIM-E1-G3-VE-3000K	Downlight Solid State Retrofit	650	75.2	10	3000K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Hengdian Group Tospo Lighting Co., Ltd.	Tospo	TP120-RT5/6-DIM-E1-G3-VE-4000K	Downlight Solid State Retrofit	650	75.2	10	4000/4100K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Hengdian Group Tospo Lighting Co., Ltd.	Tospo	TP120-RT5/6-DIM-E3-G3-VE	Downlight Solid State Retrofit	1200	80.9	15	2700K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Hengdian Group Tospo Lighting Co., Ltd.	Tospo	TP120-RT5/6-DIM-E3-G3-VE-3000K	Downlight Solid State Retrofit	1200	80.9	15	3000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Hengdian Group Tospo Lighting Co., Ltd.	Tospo	TP120-RT5/6-DIM-E3-G3-VE-4000K	Downlight Solid State Retrofit	1200	80.9	15	4000/4100K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Hengdian Group Tospo Lighting Co., Ltd.	Tospo	TP120-RT6-DK-DIM-G3-VE	Downlight Solid State Retrofit	750	75.5	11	2700K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Hengdian Group Tospo Lighting Co., Ltd.	Tospo	TP120-RT6-DK-DIM-G3-VE-3000K	Downlight Solid State Retrofit	750	75.5	11	3000K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Hengdian Group Tospo Lighting Co., Ltd.	Tospo	TP120-RT6-DK-DIM-G3-VE-4000K	Downlight Solid State Retrofit	750	75.5	11	4000/4100K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
High Energy Group/LEDGREEN	LEDGREEN LED	LEDG-RTSN-120D(4000K)	Retrofit Kits for High-Bay Luminaires for Commercial and Industrial Buildings	16250	124.9	130.1	3996	83.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
High Energy Group/LEDGREEN	LEDGREEN LED	LEDG-RTSN-200D(4000K)	Retrofit Kits for High-Bay Luminaires for Commercial and Industrial Buildings	27078	129.15	210.2	3990	83.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
High Energy Group/LEDGREEN	LEDGREEN LED	LEDG-RTSN-100D(4000K)	Retrofit Kits for Outdoor Full-Cutoff Wall-Mounted Area Luminaires	11695	113.96	102.6	3979	83.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
High Energy Group/LEDGREEN	LEDGREEN LED	LEDG-RTSN-80V(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	9402.5	112.59	83.69	3992	83.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
High Energy Group/LEDGREEN	LEDGREEN LED	LEDG-RTSN-120D(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	15057	115.82	130	3998	83.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
High Energy Group/LEDGREEN	LEDGREEN LED	LEDG-RTSN-150D(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	18709	123.25	151.8	4007	83.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
High Energy Group/LEDGREEN	LEDGREEN LED	LEDG-RTSN-200D(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	27078	129.15	210.2	3990	83.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
High Energy Group/LEDGREEN	LEDGREEN LED	LEDG-RTSN-300D(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	35288	116.35	303.8	3995	83.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II

Manufacturer	Brand	Model Number	LED Type	Light Output (Lumens)	Efficacy (lumens per Watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016-17 Tier Level (LEDA)
High Energy Group/LEDGREEN	LEDGREEN LED	LEDG-RTSN-300D-HV(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	34952	117.21	298.2	3996	83.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
High Energy Group/LEDGREEN	LEDGREEN LED	LEDG-RTSN-400D(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	47542	113.38	420.5	3996	83.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
High Energy Group/LEDGREEN	LEDGREEN LED	LEDG-RTSN-480D(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	53085	112.97	470.5	4010	83.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Homelite Technology Co. Ltd	Homelite	HT6RD14/50K	Downlight Recessed	950	75.6	14	5000K	85				Continuous Dimming	Tier I (or Tier II with networked controls)
Homelite Technology Co. Ltd	Homelite	HT6RD14	Downlight Recessed	950	75.6	14	3000K	85				Continuous Dimming	Tier I (or Tier II with networked controls)
Homelite Technology Co. Ltd	Homelite	HT6RD14/50K	Downlight Recessed	950	75.6	14	5000K	85				Continuous Dimming	Tier I (or Tier II with networked controls)
Homelite Technology Co. Ltd	Homelite	HT4RD08/27K	Downlight Solid State Retrofit	650	79.1	8.6	2700K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Homelite Technology Co. Ltd	Homelite	HT4RD08/30K	Downlight Solid State Retrofit	650	81.9	9.1	3000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Homelite Technology Co. Ltd	Homelite	HT56RD14/30K	Downlight Solid State Retrofit	1000	77.6	14.1	3000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Homelite Technology Co. Ltd	Homelite	HT5RD14/30K	Downlight Solid State Retrofit	1000	79.4	14.1	3000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Homelite Technology Co. Ltd	Homelite	HT6RD14/30K	Downlight Solid State Retrofit	1000	82	14.3	3000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Horizon Lighting Company	Horizon Lighting	LED-FL30/4000-MV	Architectural Flood and Spot Luminaires	3106.9	103.63	30.07	4038	70.8	5			Not Yet Verified	Tier II
Horner Lighting Group	Horner Lighting Group	ETG-WLL-4320	High-Bay Luminaires for Commercial and Industrial Buildings	36382.96	114.78	316.97	5197	84.12	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Howard Lighting	Howard Lighting	HLED08W4KDMV	Low-Bay Luminaires for Commercial and Industrial Buildings	8389	110.7	75.8	3998	85	5			Not Yet Verified	Tier II
Howard Lighting	Howard Lighting	VSL4F19203140U_G	Parking Garage Luminaires	3878	104.5	37.1	4027	84.4	5			Not Yet Verified	Tier II
HTM Lighting	HTM Lighting	HTM-RKPUS-LED-80WV2 (4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	9402.5	112.59	83.69	3992	83.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
HTM Lighting	HTM Lighting	HTM-RKPUS-LED-120WD2 (4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	15057	115.82	130	3998	83.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
HTM Lighting	HTM Lighting	HTM-RKPUS-LED-150WD2 (4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	18709	123.25	151.8	4007	83.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
HTM Lighting	HTM Lighting	HTM-RKPUS-LED-300WD2 (4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	35288	116.35	303.8	3995	83.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Hubbell Killark	Hubbell Killark	KFL12530-DLC	Architectural Flood and Spot Luminaires	15340	118.38	129.58	4896	74.22	5			Not Yet Verified	Tier II
Hubbell Lighting	Columbia Lighting	LCS4-35LW-EU	Direct Linear Ambient Luminaires	2869	117.1	24.5	3659	84.1	5			Not Yet Verified	Tier II
Hubbell Lighting	Hubbell Industrial Lighting	FPH-4K-P95-[U, 1, 2, 3, 4]-CD	High-Bay Luminaires for Commercial and Industrial Buildings	24110	110.8	217.8	3952	82	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Hubbell Lighting	Beacon Products	TRV-X-24NB-27-5K-T3-UNV-XXX-XXX-XXX	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	3268	116.63	28.02	4851	66.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Hubbell Lighting	Beacon Products	CRZ-24NB-27-5K-T3-UNV-XXX-XXX-XXX	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	3268	116.63	28.02	4851	66.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Hubbell Lighting	Kim Lighting	SET3P35/40LSK-VVV-C [120V to 240V][Excludes Wall Mount]	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	4783	105.6	45.3	4854	66.54	5			Not Yet Verified	Tier II
Hubbell Lighting	Beacon Products	EDR/24NB-30/5K/TSR/UNV	Parking Garage Luminaires	3196.56	111.6	28.64	4562	67.75	5			Not Yet Verified	Tier II
Hubbell Lighting	Columbia Lighting	LBIL4-40K-LW-ESDU-051	Stairwell and Passageway Luminaires	3168	102.62	30.88	3790	84	5			Not Yet Verified	Tier II
HuBei Botanica Lighting Co;Ltd	botanica	BLT-HBR-200H-27	High-Bay Luminaires for Commercial and Industrial Buildings	24919	115.31	216.1	2772	82.6	5			Not Yet Verified	Tier II
HuBei Botanica Lighting Co;Ltd	botanica	BLT-HBR-150H-27	High-Bay Luminaires for Commercial and Industrial Buildings	19449	119.03	163.4	2763	82.7	5			Not Yet Verified	Tier II
HYD LIGHTING LTD.	HYD	MS036-WT40K-WA	Direct Linear Ambient Luminaires	3326.351	110.144	30.2	4000	83.3	5			Stepped	Tier II
HYD LIGHTING LTD.	HYD	MS048-WT40K-WA	Direct Linear Ambient Luminaires	4604.371	112.028	41.1	3952	81.8	5			Stepped	Tier II
HYD LIGHTING LTD.	HYD	MS024-WT40K-WA	Stairwell and Passageway Luminaires	2738.6	106.56	25.7	3996	83	5			Stepped	Tier II
HYD LIGHTING LTD.	HYD	MS036-WT40K-WA	Stairwell and Passageway Luminaires	3326.351	110.14	30.2	4000	83.3	5			Stepped	Tier II
HYD LIGHTING LTD.	HYD	MS048-WT40K-WA	Stairwell and Passageway Luminaires	4604.37	112.03	41.1	3952	81.8	5			Stepped	Tier II
Icon International, Inc.	ICON	Rs-12	Track or Mono-Point Directional Luminaires	1662	78.5	21.17	3040	83.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier I (or Tier II with networked controls)
Illumadyne, Inc.	Coolbay	4CB-UNV-44-N-5000	High-Bay Luminaires for Commercial and Industrial Buildings	17830	129.7	137.48	5269	84.11	7			Continuous (Can dim down to ≤ 10% (W))	Tier II
Illumadyne, Inc.	Coolbay	4CB-UNV-46-M-5000	High-Bay Luminaires for Commercial and Industrial Buildings	22230	135.6	163.88	5288	84.57	7			Continuous (Can dim down to ≤ 10% (W))	Tier II
Ilsung Moolsan Company Ltd.	Ilsung	DLED-146-23W-RM-50	Downlight Recessed	1578	75.6	23	5000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Ilsung Moolsan Company Ltd.	Ilsung	DLED-146R-23W-RM-50	Downlight Recessed	1578	75.6	23	5000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Ilsung Moolsan Company Ltd.	Ilsung	DLED-166-23W-RM-30	Downlight Recessed	1415	75.1	23	3000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Ilsung Moolsan Company Ltd.	Ilsung	DLED-166R-23W-RM-50	Downlight Recessed	1570	75.1	23	5000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Ilsung Moolsan Company Ltd.	Ilsung	DLED-186-30W-RM-30	Downlight Recessed	2100	79.2	31.1	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Ilsung Moolsan Company Ltd.	Ilsung	DLED-186-30W-RM-35	Downlight Recessed	2200	79.2	31.1	3500K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Ilsung Moolsan Company Ltd.	Ilsung	DLED-186-30W-RM-40	Downlight Recessed	2300	79.2	31.1	4000/4100K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Ilsung Moolsan Company Ltd.	Ilsung	DLED-186R-23W-RM-50	Downlight Recessed	1855	88.7	23	5000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Ilsung Moolsan Company Ltd.	Ilsung	DLED-186R-30W-RM-30	Downlight Recessed	2100	79.2	31.1	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Ilsung Moolsan Company Ltd.	Ilsung	DLED-186R-30W-RM-35	Downlight Recessed	2200	79.2	31.1	3500K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Ilsung Moolsan Company Ltd.	Ilsung	DLED-186R-30W-RM-40	Downlight Recessed	2300	79.2	31.1	4000/4100K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Ilsung Moolsan Company Ltd.	Ilsung	DLED-196-23W-RM-30	Downlight Recessed	1712	90.4	23	3000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Ilsung Moolsan Company Ltd.	Ilsung	DLED-196-23W-RM-50	Downlight Recessed	1892	90.4	23	5000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Ilsung Moolsan Company Ltd.	Ilsung	DLED-196-30W-RM-30	Downlight Recessed	2168	81.8	31.1	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Ilsung Moolsan Company Ltd.	Ilsung	DLED-196-30W-RM-35	Downlight Recessed	2270	81.8	31.1	3500K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Ilsung Moolsan Company Ltd.	Ilsung	DLED-196-30W-RM-40	Downlight Recessed	2390	81.8	31.1	4000/4100K	81				Continuous Dimming	Tier I (or Tier II with networked controls)

Manufacturer	Brand	Model Number	LED Type	Light Output (lumens)	Efficacy (lumens per Watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016-17 Tier Level (LEDA)
Ilsung Moolsan Company Ltd.	Ilsung	DLED-196R-23W-RM-50	Downlight Recessed	1892	90.4	23 5000K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Ilsung Moolsan Company Ltd.	Ilsung	DLED-196R-30W-RM-30	Downlight Recessed	2168	81.8	31.1 3000K		81				Continuous Dimming	Tier I (or Tier II with networked controls)
Ilsung Moolsan Company Ltd.	Ilsung	DLED-196R-30W-RM-35	Downlight Recessed	2270	81.8	31.1 3500K		81				Continuous Dimming	Tier I (or Tier II with networked controls)
Ilsung Moolsan Company Ltd.	Ilsung	DLED-196R-30W-RM-40	Downlight Recessed	2390	81.8	31.1 4000/4100K		81				Continuous Dimming	Tier I (or Tier II with networked controls)
Ilsung Moolsan Company Ltd.	Ilsung	DLED-466-23W-RM-50	Downlight Recessed	1578	75.6	23 5000K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Ilsung Moolsan Company Ltd.	Ilsung	DLED-666-23W-RM-30	Downlight Recessed	1415	75.1	23 3000K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Ilsung Moolsan Company Ltd.	Ilsung	DLED-966-23W-RM-50	Downlight Recessed	1892	90.4	23 5000K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Ilsung Moolsan Company Ltd.	Ilsung	DLED-966-30W-RM-30	Downlight Recessed	2168	81.8	31.1 3000K		81				Continuous Dimming	Tier I (or Tier II with networked controls)
Ilsung Moolsan Company Ltd.	Ilsung	DLED-966-30W-RM-35	Downlight Recessed	2270	81.8	31.1 3500K		81				Continuous Dimming	Tier I (or Tier II with networked controls)
Ilsung Moolsan Company Ltd.	Ilsung	DLED-966-30W-RM-40	Downlight Recessed	2390	81.8	31.1 4000/4100K		81				Continuous Dimming	Tier I (or Tier II with networked controls)
Ilsung Moolsan Company Ltd.	Ilsung	DLED-666-23W-RM-50	Downlight Recessed	1570	75.1	23 5000K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Ilsung Moolsan Company Ltd.	Ilsung	DLED-866-23W-RM-30	Downlight Recessed	1660	88.7	23 3000K		81				Continuous Dimming	Tier I (or Tier II with networked controls)
Ilsung Moolsan Company Ltd.	Ilsung	DLED-866-30W-RM-30	Downlight Recessed	2100	79.2	31.1 3000K		81				Continuous Dimming	Tier I (or Tier II with networked controls)
Ilsung Moolsan Company Ltd.	Ilsung	DLED-866-30W-RM-35	Downlight Recessed	2200	79.2	31.1 3500K		81				Continuous Dimming	Tier I (or Tier II with networked controls)
Ilsung Moolsan Company Ltd.	Ilsung	DLED-866-30W-RM-40	Downlight Recessed	2300	79.2	31.1 4000/4100K		81				Continuous Dimming	Tier I (or Tier II with networked controls)
Ilsung Moolsan Company Ltd.	Ilsung	FRK4-23W-RM-CR-50	Downlight Solid State Retrofit	1631	76.2	23 2700K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Ilsung Moolsan Company Ltd.	Ilsung	FRK6-23W-RM-CR-50	Downlight Solid State Retrofit	1631	76.2	23 2700K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Ilsung Moolsan Company Ltd.	Ilsung	FRK9-23W-RM-CR-27	Downlight Solid State Retrofit	1631	76.2	23 2700K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Ilsung Moolsan Company Ltd.	Ilsung	FRK9-23W-RM-CR-50	Downlight Solid State Retrofit	1631	76.2	23 5000K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Ilsung Moolsan Company Ltd.	Ilsung	DLED-186-23W-RM-50	Downlight Surface Mount	1855	88.7	23 5000K		81				Continuous Dimming	Tier I (or Tier II with networked controls)
Ilsung Moolsan Company Ltd.	Ilsung	DLED-186-30W-RM-50	Downlight Surface Mount	2354	79.2	31.1 5000K		83				Continuous Dimming	Tier I (or Tier II with networked controls)
Ilsung Moolsan Company Ltd.	Ilsung	DLED-186R-30W-RM-50	Downlight Surface Mount	2354	79.2	31.1 5000K		83				Continuous Dimming	Tier I (or Tier II with networked controls)
Ilsung Moolsan Company Ltd.	Ilsung	DLED-196-30W-RM-50	Downlight Surface Mount	2432	81.8	31.1 5000K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Ilsung Moolsan Company Ltd.	Ilsung	DLED-196R-30W-RM-50	Downlight Surface Mount	2432	81.8	31.1 5000K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Ilsung Moolsan Company Ltd.	Ilsung	DLED-966-30W-RM-50	Downlight Surface Mount	2432	81.8	31.1 5000K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Ilsung Moolsan Company Ltd.	Ilsung	DLED-866-30W-RM-50	Downlight Surface Mount	2354	79.2	31.1 5000K		83				Continuous Dimming	Tier I (or Tier II with networked controls)
Impulse Lighting	Impulse Lighting	DLR6-LED-14.8-2700K	Downlight Recessed	1000	76.5	14.8 2700K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Impulse Lighting	Impulse Lighting	DLR6-LED-14.8-3000K	Downlight Recessed	1100	76.5	14.8 3000K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Impulse Lighting	Impulse Lighting	DLR6-LED-14.8-4000K	Downlight Recessed	1200	76.5	14.8 4000/4100K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Impulse Lighting	Impulse Lighting	DLR6-LED-14.8-5000K	Downlight Recessed	1300	76.5	14.8 5000K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Impulse Lighting Inc.	Impulse Lighting Inc.	HB01-LED-90W-50K-D	High-Bay Luminaires for Commercial and Industrial Buildings	11607	128.47	90.35 5606	5606	70.9	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Impulse Lighting Inc.	Impulse Lighting Inc.	HB01-LED-130W-50K-D	High-Bay Luminaires for Commercial and Industrial Buildings	17169	130.86	131.2 5590	5590	70.9	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Impulse Lighting Inc.	Impulse Lighting Inc.	HB02-LED-180W-50K-D	High-Bay Luminaires for Commercial and Industrial Buildings	25626	143.78	178.2 5615	5615	71.1	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Impulse Lighting Inc.	Impulse Lighting Inc.	HB01-LED-110W-50K-D	High-Bay Luminaires for Commercial and Industrial Buildings	14081	128.48	109.6 5642	5642	70.9	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Impulse Lighting Inc.	Impulse Lighting Inc.	HB02-LED-160W-50K-D	High-Bay Luminaires for Commercial and Industrial Buildings	22472	138.63	162.1 5612	5612	71.1	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Impulse Lighting Inc.	Impulse Lighting Inc.	HB02-LED-200W-50K-D	High-Bay Luminaires for Commercial and Industrial Buildings	26253	131.59	199.5 5629	5629	71.2	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Impulse Lighting Inc.	Impulse Lighting Inc.	HB02-LED-240W-50K-D	High-Bay Luminaires for Commercial and Industrial Buildings	31441	131.17	239.7 5617	5617	71.1	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Indak Manufacturing	Indak Lighting	8J504R	Retrofit Kits for Outdoor Full-Cutoff Wall-Mounted Area Luminaires	4022	108	37.28 5261	5261	88.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Indak Manufacturing	Indak Lighting	AS05R (700mA)	Retrofit Kits for Outdoor Full-Cutoff Wall-Mounted Area Luminaires	2273	110	20.65 5482	5482	87.8	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Independence LED	IndependenceLED	HB2-45450K-70-C	High-Bay Luminaires for Commercial and Industrial Buildings	12230	112	109.4 4937	4937	73.4	10			Continuous (Can dim down to ≤ 10% (W))	Tier II
Industrial Lighting Products	Industrial Lighting Product	FWS-55WLED-UNIV-30-XXXX [Excluding SD480]	Direct Linear Ambient Luminaires	5943	112	53.25 3028	3028	80.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Industrial Lighting Products	Industrial Lighting Products	F28F-118WLED-UNIV-30-FRAL-XXXX [Any Width Between 4.3"-12", ALL OPTIONS EXCEPT SD480, WC]	Direct Linear Ambient Luminaires	13440	114	117.6 3112	3112	83.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Industrial Lighting Products	Industrial Lighting Products	FZ4C-36WLED-UNIV-30-FRAL-XXXX [Any Width Between 4.3"-12", ALL OPTIONS EXCEPT SD480, WC]	Direct Linear Ambient Luminaires	4672	126	36.97 3080	3080	83.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Industrial Lighting Products	Industrial Lighting Products	FZ4C-59WLED-UNIV-50-FRAL-XXXX [Any Width Between 4.3"-12", ALL OPTIONS EXCEPT SD480, WC]	Direct Linear Ambient Luminaires	7188	124	58.04 5308	5308	85.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Industrial Lighting Products	Industrial Lighting Products	HB-400WLED-UNIV-XXXX	High-Bay Luminaires for Commercial and Industrial Buildings	48707	110.3	442.9 5453	5453	86.8	5			Not Yet Verified	Tier II
Industrial Lighting Products	Industrial Lighting Products	HB-100WLED-UNIV-5000K-[All options except -FRL, -N, -N-FRL]	High-Bay Luminaires for Commercial and Industrial Buildings	12420	115	107.7 5158	5158	86	5			Not Yet Verified	Tier II

Manufacturer	Brand	Model Number	LED Type	Light Output (lumens)	Efficacy (lumens per Watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016-17 Tier Level (LEDA)
Industrial Lighting Products	Industrial Lighting Products	BLEXT-100WLED-UNIV-4000K-N-FRAL-XXXX	High-Bay Luminaires for Commercial and Industrial Buildings	12020	110	109.3	4106	85.1	5			Not Yet Verified	Tier II
		FZ8F-90WLED-UNIV-30-FRAL-XXXXX [Any Width Between 4.3"-12", ALL OPTIONS EXCEPT SD480, WC]	High-Bay Luminaires for Commercial and Industrial Buildings									Continuous (Can dim down to ≤ 10% (W))	Tier II
Industrial Lighting Products	Industrial Lighting Products			11120	124.5	89.34	3058	82.7	5				
Industrial Lighting Products	Industrial Lighting Product	FWS-55WLED-UNIV-30-XXXXX [Excluding SD480] FZ4C-36WLED-UNIV-30-FRAL-XXXXX [Any Width Between 4.3"-12", ALL OPTIONS EXCEPT SD480, WC]	Low-Bay Luminaires for Commercial and Industrial Buildings	5943	112	53.25	3028	80.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Industrial Lighting Products	Industrial Lighting Products			4672	126	36.97	3080	83.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Industrial Lighting Products	Industrial Lighting Products	R24C-36WLED-UNIV-30-FRAL-[All options except SD480 and WC]	Retrofit Kits for Direct Linear Ambient Luminaires	4672	126	36.97	3080	83.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Industrial Lighting Products	Industrial Lighting Products	RZ8F-118WLED-UNIV-30-FRAL-[All options except SD480 and WC]	Retrofit Kits for Direct Linear Ambient Luminaires	13440	114	117.6	3112	83.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Industrial Lighting Products	Industrial Lighting Products	R24C-59WLED-UNIV-50-FRAL-[All options except SD480 and WC]	Retrofit Kits for Direct Linear Ambient Luminaires	7188	124	58.04	5308	85.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Industrial Lighting Products	ILP	DLR6-15WLED-1-DIM	Downlight Recessed	1100	75.2	15 2700K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Industrial Lighting Products	ILP	DLR6-10WLED-1-DIM	Downlight Solid State Retrofit	760	82.8	9.6 5000K		84				Continuous Dimming	Tier I (or Tier II with networked controls)
Industrial Lighting Products	ILP	DLR6-10WLED-1-DIM	Downlight Solid State Retrofit	760	82.8	9.6 2700K		84				Continuous Dimming	Tier I (or Tier II with networked controls)
Industrial Lighting Products	ILP	DLR6-10WLED-1-DIM	Downlight Solid State Retrofit	760	82.8	9.6 3000K		84				Continuous Dimming	Tier I (or Tier II with networked controls)
Industrial Lighting Products	ILP	DLR6-10WLED-1-DIM	Downlight Solid State Retrofit	760	82.8	9.6 4000/4100K		84				Continuous Dimming	Tier I (or Tier II with networked controls)
Infinilux Corporation	Infinilux RHS Series	RHSPXX80-08 (4000K)-CL [120-277V]	High-Bay Luminaires for Commercial and Industrial Buildings	18706.32	117	160.33	3894	83.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Infinilux Corporation	Infinilux RHS Series	RHSPXX100-08 (4000K)-CL [120-277V]	High-Bay Luminaires for Commercial and Industrial Buildings	23311.57	114	204.7	3971	87	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Infinilux Corporation	Infinilux RHS Series	RHSPXX60-08 (4000K)-CL [120-277V]	High-Bay Luminaires for Commercial and Industrial Buildings	14274.47	117	121.68	3938	86	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Infinilux Corporation	Infinilux HBSP Series	HBSPXX96-03 (4000K)	High-Bay Luminaires for Commercial and Industrial Buildings	12227.84	110	100.98	4098	75	5			Not Yet Verified	Tier II
Infinilux Corporation	Infinilux CLSG Series	CLSGXX36 - 02 (5000K)	Parking Garage Luminaires	4576	111.46	41.05	4837	74	5			Not Yet Verified	Tier II
Infinilux Corporation	Infinilux CLSG Series	CXSGXX24-01 (5000K)	Parking Garage Luminaires	2817	101.37	27.79	4599	73	5			Not Yet Verified	Tier II
Infinilux Corporation	Infinilux CLSG Series	CLSGXX36-01 (5000K)	Parking Garage Luminaires	4119	100.88	40.83	4697	73	5			Not Yet Verified	Tier II
Infinilux Corporation	Infinilux CLSG Series	CLSGXX36 - 02 (4000K)	Parking Garage Luminaires	4286	105.48	40.64	3948	78	5			Not Yet Verified	Tier II
Infinilux Corporation	Infinilux CFGS Series	CFGSGXX20-02 (4000K)	Parking Garage Luminaires	2318.82	101	22.95	4119	77	5			Not Yet Verified	Tier II
Infinilux Corporation	Infinilux CLSG Series	CLSGXX24-01 (5000K)	Parking Garage Luminaires	2817	101.37	27.79	4599	73	5			Not Yet Verified	Tier II
		CLSGXX20-02 (4000K)	Parking Garage Luminaires									Continuous (Can dim down to ≤ 10% (W))	Tier II
Infinilux Corporation	Infinilux CLSG Series	CFGSGXX20-02 (4000K) C01	Parking Garage Luminaires	2380.96	104	22.96	4082	74	5			Not Yet Verified	Tier II
Infinilux Corporation	Infinilux CLSG Series	CLSGXX48 - 02 (5000K)	Parking Garage Luminaires	2318.85	100	22.95	4027	77	5			Not Yet Verified	Tier II
Infinilux Corporation	Infinilux CFGS Series	CFGSGXX64-02 (4000K)	Parking Garage Luminaires	6142	113.57	54.08	4943	74	5			Not Yet Verified	Tier II
				7393.42	105	70.68	4132	77	5			Not Yet Verified	Tier II
InLine Electrical Resources	IER	IERRKD100(4000K)	Retrofit Kits for Outdoor Full-Cutoff Wall-Mounted Area Luminaires	11695	113.96	102.6	3979	83.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
InLine Electrical Resources	IER	IERRKLED80(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	9402.5	112.59	83.69	3992	83.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
InLine Electrical Resources	IER	IERRKD120(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	15057	115.82	130	3998	83.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
InLine Electrical Resources	IER	IERRKLED120(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	14082	113.34	124.2	3990	83.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
InLine Electrical Resources	IER	IERRKD150(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	18709	123.25	151.8	4007	83.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
InLine Electrical Resources	IER	IERRKLED150(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	18376	119.91	153.2	4003	83.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
InLine Electrical Resources	IER	IERRKD200(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	27078	129.15	210.2	3990	83.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
InLine Electrical Resources	IER	IERRKD240(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	28013	118.15	237.8	4001	83.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
InLine Electrical Resources	IER	IERRKD300(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	35288	116.35	303.8	3995	83.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
InLine Electrical Resources	IER	IERRKD400(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	47542	113.38	420.5	3996	83.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
InLine Electrical Resources	IER	IERRKD480(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	53085	112.97	470.5	4010	83.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
inSync Lighting Innovations, LLC	inSync Lighting Innovations, LLC	INTE 20 80 LED V5	High-Bay Luminaires for Commercial and Industrial Buildings	11344.02	128	88.76	5034	72	10			Continuous (Can dim down to ≤ 10% (W))	Tier II
			Direct Linear Ambient Luminaires									Continuous (Can dim down to ≤ 10% (W))	Tier II
Intell Lighting Incorporated	FUF	FUF4-20-3K-U-FR-X-X-X [120 ONLY]	Direct Linear Ambient Luminaires	2422	118.1	20.51	3039	84.57	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Intell Lighting Incorporated	FUF	FUF4-30-3K-U-FR-X-X-X-X	Direct Linear Ambient Luminaires	3300	110.8	29.79	3121	84.36	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Intell Lighting Incorporated	FUF	FUF4-60-3K-U-FR-X-X-X-X	Direct Linear Ambient Luminaires	6216	110.5	56.23	3101	83.12	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Intense Lighting	Intense Lighting	DD	Accent Light Line-voltage	3390	84.9	39.9 3000K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Intense Lighting	Intense Lighting	DD	Accent Light Line-voltage	3085	96.1	32.1 3000K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Intense Lighting	Intense Lighting	DD	Accent Light Line-voltage	2171	97.5	22.3 3000K		83				Continuous Dimming	Tier I (or Tier II with networked controls)
Intense Lighting	Intense Lighting	IHOL-6DRL430-20	Downlight Recessed	6008	80.2	74.9 3000K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Intense Lighting	Intense Lighting	IHOL-6DRL530-20	Downlight Recessed	6949	77	90.3 3000K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Intense Lighting	Intense Lighting	IHOL-8DRL130-20	Downlight Recessed	2832	81.7	34.7 3000K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Intense Lighting	Intense Lighting	IHOL-8DRL330-20	Downlight Recessed	6784	76.9	88.2 3000K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Intense Lighting	Intense Lighting	IHOL-8DRL430-20	Downlight Recessed	5806	76	76.4 3000K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Intense Lighting	Intense Lighting	IHOL-8DRL530-20	Downlight Recessed	6973	75.3	92.6 3000K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Intense Lighting	Intense Lighting	IHOL-6DRL330-20	Downlight Solid State Retrofit	6072	80.7	75.3 3000K		82				Continuous Dimming	Tier I (or Tier II with networked controls)

Manufacturer	Brand	Model Number	LED Type	Light Output (Lumens)	Efficacy (lumens per Watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016-17 Tier Level (LEDA)
J2 Light Inc.	PLATA-LED	PL5ACC	Parking Garage Luminaires	4486	104.2	43.06	5058	82.86	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
James Industry Group (China) Co., Ltd	JAMES	ZY-H2-110W XDZ 4000K	High-Bay Luminaires for Commercial and Industrial Buildings	12282	115.2	106.6	4092	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
James Industry Group (China) Co., Ltd	JAMES	ZY-H5-160W XDZ 4000K	High-Bay Luminaires for Commercial and Industrial Buildings	18520	116.7	158.7	4121	84.25	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
James Industry Group (China) Co., Ltd	JAMES	ZY-H3-220W XDZ 4000K	High-Bay Luminaires for Commercial and Industrial Buildings	25161	117.1	214.9	4197	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
James Industry Group (China) Co., Ltd	JAMES	ZY-H6-320W XDZ 4000K	High-Bay Luminaires for Commercial and Industrial Buildings	37301	116.8	319.2	4189	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
JDI Sales USA Inc dba Triangle Bulbs	Triangle Bulbs	T80211	Downlight Recessed	1000	76.5	14.8	2700K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
JDI Sales USA Inc dba Triangle Bulbs	Triangle Bulbs	T80213	Downlight Recessed	1300	76.5	14.8	5000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Jeco Power Developments Inc.	JP LED LIGHTING	JP-D-4-9w	Downlight Solid State Retrofit	641	75.1	9	3000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Jeco Power Developments Inc.	JP LED LIGHTING	JP-D-6-15w	Downlight Solid State Retrofit	1200	79.9	15	3000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
JIANGSU SHENGHUI OPTOELECTRONIC CO.,LTD	SUNWEA	SH-HB04DLU-90D840	High-Bay Luminaires for Commercial and Industrial Buildings	11931.7	133.9	89.1	3874	84.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
JIANGSU SHENGHUI OPTOELECTRONIC CO.,LTD	SUNWEA	SH-HB06DLU-140D840	High-Bay Luminaires for Commercial and Industrial Buildings	18645.1	131.3	141.99	3866	83.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
JIANGSU SHENGHUI OPTOELECTRONIC CO.,LTD	SUNWEA	SH-HB08DLU-180D840	High-Bay Luminaires for Commercial and Industrial Buildings	24727.4	134.7	183.6	3865	83.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Jiawei Technology (USA), Ltd	Duracell	10DL-827-WFL-D-BX	Downlight Recessed	700	75.4	10	2700K	87				Continuous Dimming	Tier I (or Tier II with networked controls)
Jiawei Technology (USA), Ltd	Maximus	10DL-827-WFL-D-BX	Downlight Recessed	700	75.4	10	2700K	87				Continuous Dimming	Tier I (or Tier II with networked controls)
Jiawei Technology (USA), Ltd	Duracell	13DSL-830-WFL-D	Downlight Solid State Retrofit	900	80	13	3000K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Jiawei Technology (USA), Ltd	Duracell	16DL-830-WFL-D	Downlight Solid State Retrofit	1100	79.4	16	3000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Jiawei Technology (USA), Ltd	Duracell	DLS15-06A27D1E-WH-F1	Downlight Solid State Retrofit	700	80.6	10	2700K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Jiawei Technology (USA), Ltd	Duracell	DLS15-06B27D1E-WH-F1	Downlight Solid State Retrofit	700	79.7	10	2700K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Jiawei Technology (USA), Ltd	Maximus	13DSL-830-WFL-D	Downlight Solid State Retrofit	900	80	13	3000K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Jiawei Technology (USA), Ltd	Maximus	16DL-830-WFL-D	Downlight Solid State Retrofit	1100	79.4	16	3000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Jiawei Technology (USA), Ltd	Maximus	DLS15-06A27D1E-WH-F1	Downlight Solid State Retrofit	700	80.6	10	2700K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Jiawei Technology (USA), Ltd	Maximus	DLS15-06B27D1E-WH-F1	Downlight Solid State Retrofit	700	79.7	10	2700K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Jiawei Technology (USA), Ltd	Maximus	DLS22-06B30D1E-WH-1	Downlight Solid State Retrofit	650	88.7	10	3000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Jiawei Technology (USA), Ltd	UTILITECH Pro	DLS15-06A27D1E-WH-F1	Downlight Solid State Retrofit	700	80.6	10	2700K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
JK Lighting Systems	JK Lighting Systems	JKVN50I-G-41-U-5K-W	Parking Garage Luminaires	4576	111.46	41.05	4837	74	5			Not Yet Verified	Tier II
		JKVN50I-G-55-U-5K-W	Parking Garage Luminaires	6142	113.57	54.08	4943	74	5			Not Yet Verified	Tier II
Juno Lighting, LLC	Acculite	LF-809-4K-[UN,E1,E2]-[SF,TR]-W-[Can include PC]-D	Architectural Flood and Spot Luminaires	11314	110.43	102.45	4030	73.68	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
		[T272, TEK272, SP272][MLL,L]4KN[All Housing Colors]	Track or Mono-Point Directional Luminaires	1542	104.6	14.74	3984	83.32	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier I (or Tier II with networked controls)
Juno Lighting, LLC	Juno	[T275, TEK275, HTEK275, SP275][MLL, L]-4K-N-[WH, SL, BL, STN]	Track or Mono-Point Directional Luminaires	2204	84.6	26.1	3828	84.73	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier I (or Tier II with networked controls)
Juno Lighting, LLC	Juno	[T, TEK, HTEK]209LG2-27HCF[BL, SL, WH]	Track or Mono-Point Directional Luminaires	1479	76.8	19.26	2745	91.67	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier I (or Tier II with networked controls)
Juno Lighting, LLC	Juno	[T, TEK, HTEK]209LG2-4F[BL, SL, WH]	Track or Mono-Point Directional Luminaires	1992	103.9	19.18	4018	82.74	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier I (or Tier II with networked controls)
Juno Lighting, LLC	Juno	[T283, TEK283, HTEK283, SP283][ML, L]-4KN[All Housing Colors]	Track or Mono-Point Directional Luminaires	2552	96.96	26.32	4097	83.58	5			Continuous (Can dim down to ≤ 10% (W))	Tier I (or Tier II with networked controls)
Juno Lighting, LLC	Juno	[T285, TEK285, HTEK285, SP285][ML, L]-4KN[All Housing Colors]	Track or Mono-Point Directional Luminaires	3068	89.84	34.15	4110	83.31	5			Continuous (Can dim down to ≤ 10% (W))	Tier I (or Tier II with networked controls)
Juno Lighting, LLC	Juno	[T254L, TEK254L, SP254MLL]-4K-S-[BL, SL, WH, STN]	Track or Mono-Point Directional Luminaires	1370	76.2	18	3975	84.17	5			Continuous (Can dim down to ≤ 10% (W))	Tier I (or Tier II with networked controls)
K-B Lighting Mfg. Co., Inc	K-B Lighting	UH84-4-4x4000LM-50K	High-Bay Luminaires for Commercial and Industrial Buildings	13990	112.6	124.2	5241	84.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Kenall Lighting	Kenall Lighting	EPLB-22-E-XX-CA-XX-192L-50K7-DCC-DV	High-Bay Luminaires for Commercial and Industrial Buildings	25602.1	121.33	211.02	5026	77.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Kenall Lighting	Kenall Lighting	TD17HO-rr-55-TP-uu-47L-30K8-DCC-DV-zz	Parking Garage Luminaires	6106.45	113.63	53.74	3000	84.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Kinglumi Co., Ltd.	CAMETA	TR-003-25	Accent Light Line-voltage	2070	79.6	25	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Kinglumi Co., Ltd.	CAMETA	TR-003-36	Accent Light Line-voltage	2870	78.7	35	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Kinglumi Co., Ltd.	CAMETA	TR-011-8(1304)	Accent Light Line-voltage	600	76	8	3000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Kinglumi Co., Ltd.	CAMETA	TR-011-8(1304)	Accent Light Line-voltage	600	76	8	3500K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Kinglumi Co., Ltd.	CAMETA	TR-011-8(1304)	Accent Light Line-voltage	630	76	8	4000/4100K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Kinglumi Co., Ltd.	CAMETA	TR-011-8(1304)	Accent Light Line-voltage	650	76	8	5000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Kinglumi Co., Ltd.	CAMETA	TR-011-8(1507)	Accent Light Line-voltage	680	81.3	8.4	3000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Kinglumi Co., Ltd.	CAMETA	TR-011-8(1507)	Accent Light Line-voltage	700	81.3	8.4	3500K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Kinglumi Co., Ltd.	CAMETA	TR-011-8(1507)	Accent Light Line-voltage	740	81.3	8.4	4000/4100K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Kinglumi Co., Ltd.	CAMETA	TR-011-8(1507)	Accent Light Line-voltage	760	81.3	8.4	5000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Kinglumi Co.,Ltd	Kinglumi	TR-010-45	Track or Mono-Point Directional Luminaires	4001.37	94.39	42.39	2990	82.5	5			Not Dimmable	Tier I
KMW Inc.	GIGATERA	SEH500-H30070ZN	High-Bay Luminaires for Commercial and Industrial Buildings	63249.89	119.53	529.16	3031	82.6	5			Stepped	Tier II

Manufacturer	Brand	Model Number	LED Type	Light Output (Lumens)	Efficacy (lumens per Watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016-17 Tier Level (LEDA)
KMW Inc.	GIGATERA	SEH400-H30070ZN	High-Bay Luminaires for Commercial and Industrial Buildings	47761.77	112.08	426.31	3078	83.1	5			Stepped	Tier II
KMW Inc.	GigaTera	SE080-A3013##5%	High-Bay Luminaires for Commercial and Industrial Buildings	9408	111.46	84.41	3135	83	5			Not Yet Verified	Tier II
KMW Inc.	GigaTera	SE080-A5013##5%	High-Bay Luminaires for Commercial and Industrial Buildings	10920	127.87	85.4	5100	84	5			Not Yet Verified	Tier II
KMW Inc.	GigaTera	SE100-A3013##5%	High-Bay Luminaires for Commercial and Industrial Buildings	11810	113.27	104.26	3156	82	5			Not Yet Verified	Tier II
KMW Inc.	GigaTera	SE130-A3008##5%	High-Bay Luminaires for Commercial and Industrial Buildings	15580	116.73	133.47	3174	83	5			Not Yet Verified	Tier II
KMW Inc.	GigaTera	SE130-A5008##5%	High-Bay Luminaires for Commercial and Industrial Buildings	17699	130.97	135.13	5154	83	5			Not Yet Verified	Tier II
KMW Inc.	GigaTera	SE160-A3008##5%	High-Bay Luminaires for Commercial and Industrial Buildings	18520	113.15	163.68	3166	83	5			Not Yet Verified	Tier II
KMW Inc.	GigaTera	SE160-A5008##5%	High-Bay Luminaires for Commercial and Industrial Buildings	20978	127.25	164.85	5172	84	5			Not Yet Verified	Tier II
KMW Inc.	GigaTera	SE160-C3008##5%	High-Bay Luminaires for Commercial and Industrial Buildings	18530	116.44	159.14	3154	83	5			Not Yet Verified	Tier II
KMW Inc.	GigaTera	SE160-C5008##5%	High-Bay Luminaires for Commercial and Industrial Buildings	20340	126.87	160.32	5188	84	5			Not Yet Verified	Tier II
KMW Inc.	GigaTera	SE130-C5008##5%	High-Bay Luminaires for Commercial and Industrial Buildings	16439	125.38	131.12	5149	83	5			Not Yet Verified	Tier II
KMW Inc.	GigaTera	SE130-C3013##5%	High-Bay Luminaires for Commercial and Industrial Buildings	15390	118.36	130.03	3160	83	5			Not Yet Verified	Tier II
KMW Inc.	GigaTera	EFL100-A50080TN	High-Bay Luminaires for Commercial and Industrial Buildings	11938.27	116.05	102.87	5165	83.23	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
KMW Inc.	GigaTera	EF1070-A50080TN	Low-Bay Luminaires for Commercial and Industrial Buildings	8634	114.77	75.23	5124	84.27	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
KMW Inc.	GigaTera	WP050-A35 ##5%#! (Excludes Pole-Mount Options)	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	5688	113.75	50.01	3674	83	5			Not Yet Verified	Tier II
KMW Inc.	GigaTera	WP050-A50 ##5%#! (Excludes Pole-Mount Options)	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	5979	114.78	52.09	5157	84	5			Not Yet Verified	Tier II
KMW Inc.	GigaTera	WP075-A35 ##5%#! (Excludes Pole-Mount Options)	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	8345	105.46	79.13	3659	86	5			Not Yet Verified	Tier II
KMW Inc.	GigaTera	WP075-A50 ##5%#! (Excludes Pole-Mount Options)	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	8744	115.36	75.8	5171	84	5			Not Yet Verified	Tier II
KMW Inc.	GigaTera	WP100-A50 ##5%#! (Excludes Pole-Mount Options)	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	12732	113.78	111.9	5215	83	5			Not Yet Verified	Tier II
KMW Inc.	GigaTera	MT100-A3530	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	11630	112.04	103.8	3157	83	5			Not Yet Verified	Tier II
KMW Inc.	GigaTera	MT130-A3530	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	15150	111.36	136.05	3136	83	5			Not Yet Verified	Tier II
KMW Inc.	GigaTera	MT150-A3530	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	17200	112.6	152.75	3131	83				Not Yet Verified	Tier II
KMW Inc.	GigaTera	MT100-A3550	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	13354	128.16	104.19	4921	83	5			Not Yet Verified	Tier II
KMW Inc.	GigaTera	MT130-A3550	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	17574	129.6	135.6	5155	85	5			Not Yet Verified	Tier II
KMW Inc.	GigaTera	MT150-A3550	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	19857	131.05	151.53	4895	84	5			Not Yet Verified	Tier II
KMW Inc.	GigaTera	MA300-A355%#!	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	35170	112.16	313.58	3646	85	5			Not Yet Verified	Tier II
KMW Inc.	GigaTera	MA300-A505%#!	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	40700	130.04	312.98	5268	84	5			Not Yet Verified	Tier II
KMW Inc.	GigaTera	MA200-A355%#!	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	22498	113.58	198.08	3630	85.3	5			Not Yet Verified	Tier II
KMW Inc.	GigaTera	MA200-A505%#!	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	25732	132.5	194.21	5243	84	5			Not Yet Verified	Tier II
KMW Inc.	GigaTera	MA200-C355%#!	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	22709	117.26	193.67	3643	85	5			Not Yet Verified	Tier II
KMW Inc.	GigaTera	MA200-C505%#!	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	25870	135.19	191.36	5227	84	5			Not Yet Verified	Tier II
KMW Inc.	GigaTera	MA400-A505%#!	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	49430	126.86	389.65	5200	84	5			Not Yet Verified	Tier II
KMW Inc.	GigaTera	MA400-C50N%#!	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	51459	134.21	383.06	5233	83	5			Not Yet Verified	Tier II
KMW Inc.	GigaTera	MA300-C50N%#!	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	39873	132.48	300.97	5084	83	5			Not Yet Verified	Tier II
KMW Inc.	GigaTera	MA400-A35N%#!	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	45947	117.55	390.88	3654	84	5			Not Yet Verified	Tier II
Krut Systems LLC	Krut LED	KL13DL5K6I	Downlight Recessed	1200	94.6	13 5000K		81				Continuous Dimming	Tier I (or Tier II with networked controls)
Krut Systems LLC	Krut LED	KL09DL5K4I	Downlight Solid State Retrofit	850	94.6	9 5000K		80				Continuous Dimming	Tier I (or Tier II with networked controls)
KRYPTON LIGHTING., LLC	Krypton Lighting	KL-SA-4-EXT-H-240-5K-CLP	High-Bay Luminaires for Commercial and Industrial Buildings	31180	127.2	245.1	5008	83.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Lamar Lighting	LAMAR LIGHTING	DLL96L30	Direct Linear Ambient Luminaires	3624	121.24	11.11	3090	84.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Lamar Lighting	LAMAR LIGHTING	DLL48H50	Direct Linear Ambient Luminaires	6621	126.71	52.25	5224	84.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Lamar Lighting	LAMAR LIGHTING	VOL48AF30-AS	Stairwell and Passageway Luminaires	2478	101.8	24.35	3078	80	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Lamar Lighting	LAMAR LIGHTING	DLL96L30-XXAS	Stairwell and Passageway Luminaires	3624	121.24	29.89	3090	84.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Lamar Lighting	LAMAR LIGHTING	DLL24M50-XXAS	Stairwell and Passageway Luminaires	1739	101.87	17.07	5297	83.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Lamar Lighting	LAMAR LIGHTING	DLL48H50-XXAS	Stairwell and Passageway Luminaires	6232	119.7	52.06	5332	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Larson Electronics LLC	Larson Electronics LLC	LEDWP-250E-DLC-4000K	Architectural Flood and Spot Luminaires	2073.849	101.809	20.37	4026	74.5	5			Not Yet Verified	Tier II
LDPI, Inc.	LDPI	LE300-P8-V1-*"-W-(C**"-D-P*)	Low-Bay Luminaires for Commercial and Industrial Buildings	9063	112	81.06	4978	73.6	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
LED Energy Revolution LLC	LED Energy Revolution	L-HB10-SW-UNV-120-XX-DIF-DIM	High-Bay Luminaires for Commercial and Industrial Buildings	10862.95	116.61	94.89	3875	73.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
LED Energy Revolution LLC	LED Energy Revolution	L-HB08-SW-UNV-120-XX-DIF-DIM	High-Bay Luminaires for Commercial and Industrial Buildings	9364.16	125.22	75.46	3867	72.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II

Manufacturer	Brand	Model Number	LED Type	Light Output (lumens)	Efficacy (lumens per Watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016-17 Tier Level (LEDA)
LED Energy Revolution LLC	LED ENERGY REVOLUTION	L-503-SW-UNV-2-XX-P	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	3298.01	104.2	31.72	4007	72.4	5			Not Yet Verified	Tier II
LED Living Technology	LED Living Technology	G3DRA-45-4-35K-DF-XX-WD-XX-XX-XX-XX	Parking Garage Luminaires	4836	105	46.26	3590	85.5	10			Continuous (Can dim down to ≤ 10% (W))	Tier II
LED Living Technology	LED Living Technology	G3DRA-24-4-35K-DF-XX-WD-XX-XX-XX-XX	Parking Garage Luminaires	2780	112	24.84	3569	85.4	10			Continuous (Can dim down to ≤ 10% (W))	Tier II
LED One Distribution, Inc	INC	RE6-10W-5FEE	Downlight Solid State Retrofit	870	90.2	10 5000K		84				Continuous Dimming	Tier I (or Tier II with networked controls)
LED One Distribution, Inc	INC	RE6-10W-5FHE	Downlight Solid State Retrofit	870	90.2	10 5000K		84				Continuous Dimming	Tier I (or Tier II with networked controls)
LED One Distribution, Inc	INC	RO6-10W-5FEX	Downlight Solid State Retrofit	900	95.6	10 5000K		84				Continuous Dimming	Tier I (or Tier II with networked controls)
LED One Distribution, Inc	INC	RO6-10W-5FEX	Downlight Solid State Retrofit	900	95.6	10 5000K		84				Continuous Dimming	Tier I (or Tier II with networked controls)
LED One Distribution, Inc	LED ONE	DLRC0830HU30K10D	Downlight Solid State Retrofit	2300	81.6	31 3000K		83				Continuous Dimming	Tier I (or Tier II with networked controls)
LED One Distribution, Inc	LED ONE	DLRC0840HU30K10D	Downlight Solid State Retrofit	3300	78.2	44 3000K		83				Continuous Dimming	Tier I (or Tier II with networked controls)
LED One Distribution, Inc	LED ONE DISTRIBUTION	RE6-10W-5FEE	Downlight Solid State Retrofit	870	90.2	10 5000K		84				Continuous Dimming	Tier I (or Tier II with networked controls)
LED One Distribution, Inc	LED ONE DISTRIBUTION	RE6-10W-5FHE	Downlight Solid State Retrofit	870	90.2	10 5000K		84				Continuous Dimming	Tier I (or Tier II with networked controls)
LED One Distribution, Inc	LED ONE DISTRIBUTION	RO6-10W-5FEX	Downlight Solid State Retrofit	900	95.6	10 5000K		84				Continuous Dimming	Tier I (or Tier II with networked controls)
LED One Distribution, Inc	LED ONE DISTRIBUTION	RO6-10W-5FEX	Downlight Solid State Retrofit	900	95.6	10 5000K		84				Continuous Dimming	Tier I (or Tier II with networked controls)
LED Roadway Lighting	NXT Series	NXT-245-0-X-2E5-350-XX-3-X-XX-XX-X [Only 120V]	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	2813	100.8	27.9	3948	74	10			Not Yet Verified	Tier II
LED Roadway Lighting	NXT-Lite Series	L 0165 5 X 2E5 7 5 XX 40 XX XX	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	4325	113.5	38.1	3778	74	10			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
LED Roadway Lighting	NXT Series	NXT-48M-0-X-4AH-350-XX-3-X-XX-XX-X 44025 [L or LC] 5700K-T5-10-XX-M	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	5742	106.9	53.7	3927	72	10			Not Yet Verified	Tier II
LED Trail	LED Trail	44025 [L or LC] 5700K-T5-10-XX-M	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	2909.2	115.03	25.29	5320	69.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
LED Trail	LED Trail	44040 [L or LC]-5700K-T3-10-X-M	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	5028.7	122.09	41.19	5381	70.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
LED Trail	LED Trail	44040 [L or LC]-4000K-T3-10-X-M	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	4706.3	114.01	41.28	3710	77.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
LED Trail	LED Trail	PH49120D (4000K)	Retrofit Kits for High-Bay Luminaires for Commercial and Industrial Buildings	16250	124.9	130.1	3996	83.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
LED Trail	LED Trail	PH49200D (4000K)	Retrofit Kits for High-Bay Luminaires for Commercial and Industrial Buildings	27078	129.15	210.2	3990	83.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
LED Trail	LED Trail	PH49100D (4000K)	Retrofit Kits for Outdoor Full-Cutoff Wall-Mounted Area Luminaires	11695	113.96	102.6	3979	83.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
LED Trail	LED Trail	PH49060HV (4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	6851.2	116.39	58.91	3978	83.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
LED Trail	LED Trail	PH49080 (4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	9402.5	112.59	83.69	3992	83.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
LED Trail	LED Trail	PH49120D (4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	15057	115.82	130	3998	83.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
LED Trail	LED Trail	PH49120 (4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	14082	113.34	124.2	3990	83.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
LED Trail	LED Trail	PH49150D (4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	18709	123.25	151.8	4007	83.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
LED Trail	LED Trail	PH49150 (4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	18376	119.91	153.2	4003	83.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
LED Trail	LED Trail	PH49200D (4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	27078	129.15	210.2	3990	83.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
LED Trail	LED Trail	PH49240D (4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	28013	118.15	237.8	4001	83.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
LED Trail	LED Trail	PH49300D (4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	35288	116.35	303.8	3995	83.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
LED Trail	LED Trail	PH49300HVD (4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	34952	117.21	298.2	3996	83.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
LED Trail	LED Trail	PH49400D (4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	47542	113.38	420.5	3996	83.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
LED Trail	LED Trail	PH49480D (4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	53085	112.97	470.5	4010	83.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
LED Waves, Inc.	Owl Pack	LW30-OU070-W5000K[120V]	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	6896	121	57.11	4989	74.2	5			Not Yet Verified	Tier II
LED Waves, Inc.	Owl Pack	LW30-OU100-W5000K	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	9617	107	90.23	5094	74.4	5			Not Yet Verified	Tier II
LEDseed Inc.	LEDseed Inc.	DL6-12-40D-2-0	Downlight Solid State Retrofit	800	75.8	13 4000/4100K		91				Continuous Dimming	Tier I (or Tier II with networked controls)
LEDseed Inc.	LEDseed Inc.	DL4-9-27D-2-0	Downlight Solid State Retrofit	600	84.8	9 2700K		93				Continuous Dimming	Tier I (or Tier II with networked controls)
LEDseed Inc.	LEDseed Inc.	DL4-9-30D-2-0	Downlight Solid State Retrofit	600	83.8	9 3000K		91				Continuous Dimming	Tier I (or Tier II with networked controls)
LEDseed Inc.	LEDseed Inc.	DL4-9-40D-2-0	Downlight Solid State Retrofit	600	87.9	9 4000/4100K		94				Continuous Dimming	Tier I (or Tier II with networked controls)
LEDseed Inc.	LEDseed Inc.	DL4-9-50D-2-0	Downlight Solid State Retrofit	600	90.4	9 5000K		93				Continuous Dimming	Tier I (or Tier II with networked controls)
LEDseed Inc.	LEDseed Inc.	DL6-12-50D-2-0	Downlight Solid State Retrofit	800	77.7	13 5000K		94				Continuous Dimming	Tier I (or Tier II with networked controls)
Ledsion Lighting Technology Co.,Ltd	LEDISION	LS-RKPUS-100WD2(4000K)	Retrofit Kits for Outdoor Full-Cutoff Wall-Mounted Area Luminaires	11695	113.96	102.6	3979	83.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Ledsion Lighting Technology Co.,Ltd	LEDISION	LS-RKPUS-60WV2-HV(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	6851.2	116.39	58.91	3978	83.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Ledsion Lighting Technology Co.,Ltd	LEDISION	LS-RKPUS-80WV2(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	9402.5	112.59	83.69	3992	83.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Ledsion Lighting Technology Co.,Ltd	LEDISION	LS-RKPUS-120WV2(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	14082	113.34	124.2	3990	83.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Ledsion Lighting Technology Co.,Ltd	LEDISION	LS-RKPUS-150WV2(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	18376	119.91	153.2	4003	83.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Ledsion Lighting Technology Co.,Ltd	LEDISION	LS-RKPUS-150WD2(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	18709	123.25	151.8	4007	83.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II

Manufacturer	Brand	Model Number	LED Type	Light Output (lumens)	Efficacy (lumens per Watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016-17 Tier Level (LEDA)
Ledson Lighting Technology Co.,Ltd	LEDsION	LS-RKPUS-240WD2(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	28013	118.15	237.8	4001	83.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Ledson Lighting Technology Co.,Ltd	LEDsION	LS-RKPUS-300WD2(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	35288	116.35	303.8	3995	83.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Ledson Lighting Technology Co.,Ltd	LEDsION	LS-RKPUS-300WD2-HV(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	34952	117.21	298.2	3996	83.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Ledson Lighting Technology Co.,Ltd	LEDsION	LS-RKPUS-400WD2(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	47542	113.38	420.5	3996	83.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Ledson Lighting Technology Co.,Ltd	LEDsION	LS-RKPUS-480WD2(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	53085	112.97	470.5	4010	83.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Ledson Lighting Technology Co.,Ltd	LEDsION	LS-RKPUS-120WD2(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	15057	115.82	130	3998	83.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Ledson Lighting Technology Co.,Ltd	LEDsION	LS-RKPUS-200WD2(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	27078	129.15	210.2	3990	83.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
LEDtronics, Inc.	LEDtronics	HLB004-120W-XWW-101WD	High-Bay Luminaires for Commercial and Industrial Buildings	13667.09	117.11	116.7	3963	83.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
LEDtronics, Inc.	LEDtronics	HLB004-150W-XWW-101WD	High-Bay Luminaires for Commercial and Industrial Buildings	17732.12	117.67	150.7	3959	83.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
LEDtronics, Inc.	LEDtronics	HLB004-150W-XWW-101MD	High-Bay Luminaires for Commercial and Industrial Buildings	16505.67	110.33	149.6	3957	84.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
LEDtronics, Inc.	LEDtronics	HLB004-200W-XWW-101WD	High-Bay Luminaires for Commercial and Industrial Buildings	23863.5	118.78	200.9	3976	83.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
LEDtronics, Inc.	LEDtronics	HLB004-200W-XWW-101MD	High-Bay Luminaires for Commercial and Industrial Buildings	22719.26	113.31	200.5	3967	84.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
LEDtronics, Inc.	LEDtronics	HLB004-060W-XWW-101WD	Low-Bay Luminaires for Commercial and Industrial Buildings	7851.68	120.8	65	3943	83.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
LEDtronics, Inc.	LEDtronics	HLB004-060W-XWW-101MD	Low-Bay Luminaires for Commercial and Industrial Buildings	7696.68	118.23	65.1	3962	84.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
LEDtronics, Inc.	LEDtronics	RDL32-4-12W-XPW-101WD	Downlight Solid State Retrofit	1050	92	12 5000K		81				Continuous Dimming	Tier I (or Tier II with networked controls)
LEDtronics, Inc.	LEDtronics	RDL32-4-12W-XWW-101WD	Downlight Solid State Retrofit	990	84	12 4000/4100K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
LEDtronics, Inc.	LEDtronics	RDL32-6-11W-XPW-101WD	Downlight Solid State Retrofit	920	86	11 5000K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
LEDtronics, Inc.	LEDtronics	RDL32-6-11W-XWW-101WD [PAR18 or AR18]-10M-MV-NW-3-XX-350	Downlight Solid State Retrofit	910	87	11 4000/4100K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Leotek Electronics USA, LLC	Leotek Electronics Corp.	[PAR18 or AR18]-10M-MV-NW-2-YY-350	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	4451	101.9	43.7	3774	76	5			Not Yet Verified	Tier II
Leotek Electronics USA, LLC	Leotek Electronics Corp.	[PAR18 or AR18]-10M-MV-NW-3-YY-350	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	4212	104	40.6	3774	76.1	5			Not Yet Verified	Tier II
Leotek Electronics USA, LLC	Leotek Electronics Corp.	[PEC1 or EC1]-6M-MV-NW-5-GY-350	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	3351.6	112	30.03	3828	73	10			Not Yet Verified	Tier II
Leotek Electronics USA, LLC	Leotek Electronics Corp.	[PAR18 or AR18]-6M-MV-NW-4-XX-350 [120V ONLY]	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	2970	109.5	27.1	3770	73	5			Not Yet Verified	Tier II
Leotek Electronics USA, LLC	Leotek Electronics USA Corp.	[PAR13 or AR13]-4M-MV-NW-3-DB-350 [120V ONLY]	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	2077	103.6	20	3770	73	10			Not Yet Verified	Tier II
Leotek Electronics USA, LLC	Leotek Electronics Corp.	GC1-20F-MV-NW-2-YY-350	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	2487	104	23.86	3838	73.1	10			Not Yet Verified	Tier II
Leotek Electronics USA, LLC	Leotek Electronics Corp.	[PEC3 or EC3]-10M-MV-NW-5-GY-350	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	4906.4	117	42.05	3754	72.8	5			Not Yet Verified	Tier II
Leotek Electronics USA, LLC	Leotek Electronics Corp.	GCJ1-20G-MV-NW-3-GY-350	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	2357.5	101	23.46	3947	72.7	10			Not Yet Verified	Tier II
Leotek Electronics USA, LLC	Leotek Electronics Corp.	[PAR13 or AR13]-10M-MV-NW-3-DB-350	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	4873.2	114.34	42.62	3955	75	10			Not Yet Verified	Tier II
Leotek Electronics USA, LLC	Leotek Electronics Corp.	[PEC4 or EC4]-14M-MV-NW-2-YY-350 [PAR13 or AR13]-20M-MV-NW-3-DB-350 [120V ONLY]	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	6824	106	64.5	3975	76	5			Not Yet Verified	Tier II
Leotek Electronics USA, LLC	Leotek Electronics USA Corp.	[PAR13 or AR13]-20M-MV-NW-3-DB-350 [120V ONLY]	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	9805.5	118	82.9	3864	75	10			Not Yet Verified	Tier II
Leotek Electronics USA, LLC	Leotek Electronics USA Corp	[PEC4 or EC4]-14M-HV-NW-3-GY-350	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	7087.5	113	62.51	3792	74	10			Not Yet Verified	Tier II
Leotek Electronics USA, LLC	Leotek Electronics USA Corp	[PEC7 or EC7]-24M-HV-NW-3-GY-700	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	7087.5	113	62.51	3792	74	10			Not Yet Verified	Tier II
Leotek Electronics USA, LLC	Leotek Electronics Corp.	GC1-80F-MV-NW-2-YY-350	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	9819.4	115	85.09	3747	74	5			Not Yet Verified	Tier II
Leotek Electronics USA, LLC	Leotek Electronics Corp.	[PAR13 or AR13]-15M-MV-NW-3-DB-350	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	7980	114	70	3750	72	10			Not Yet Verified	Tier II
LG Electronics Inc.	LG	H2440P50N0A	High-Bay Luminaires for Commercial and Industrial Buildings	24999	110.7	227.4	4118	86.1	5			Not Yet Verified	Tier II
LG Electronics Inc.	LG	H1857P9015B	High-Bay Luminaires for Commercial and Industrial Buildings	22601	126.8	178.3	5739	84.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
LG Electronics Inc.	LG	H1257P9015D	High-Bay Luminaires for Commercial and Industrial Buildings	14272	127.3	112.1	5772	85.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
LG Electronics Inc.	LG	T1840GE502D	2-lamp External driver Lamp-style retrofit kits (UL Type C)	2086.91	113.48	18.39	3908.2	85.6	5			Not Yet Verified	Tier I
Lighting & Supplies, Inc. dba Sunshine Lighting Co.	SUNLITE	97056-SU(3000K)	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	4713.8	107.744	43.75	3042	83.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Lighting & Supplies, Inc. dba Sunshine Lighting Co.	SUNLITE	97058-SU(3000K)	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	8777.4	108.95	80.56	3060	84.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Lighting Etc. Inc.	Lighting Etc. Inc.	NML-RS-15L-U-F	High-Bay Luminaires for Commercial and Industrial Buildings	13870	112.5	123.33	3903	82.25	5			Not Yet Verified	Tier II
Lighting Etc. Inc.	Lighting Etc. Inc.	Downlight Solid State Retrofit	Downlight Solid State Retrofit										
Lighting Science Group, Corp	Glimpse	LS GLP6 W27 120 WH S2 BX	Downlight Solid State Retrofit	841	76.2	11 2700K		84				Continuous Dimming	Tier I (or Tier II with networked controls)
Lighting Solutions Group LLC D.B.A.SpecGradeLED	SpecGrade	HBF-200-5000K-150-120-277v-BL	High-Bay Luminaires for Commercial and Industrial Buildings	29674.71	143	207.68	5108	75	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Lighting Solutions Group LLC D.B.A.SpecGradeLED	SpecGrade	HBF-150-5000K-150-120-277v-BL	High-Bay Luminaires for Commercial and Industrial Buildings	23612.47	146	162.15	5062	74	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Lightolier	LyteSpan	LT08RNF835	Accent Light Line-voltage	674	78	8 3500K		80				Continuous Dimming	Tier I (or Tier II with networked controls)
Lightolier	LyteSpan	LT08RF827	Accent Light Line-voltage	649	76	8 2700K		80				Continuous Dimming	Tier I (or Tier II with networked controls)
Lightolier	LyteSpan	LT08RF835	Accent Light Line-voltage	686	80	8 3500K		80				Continuous Dimming	Tier I (or Tier II with networked controls)
Lightolier	LyteSpan	LT08RF840	Accent Light Line-voltage	761	84	9 4000/4100K		80				Continuous Dimming	Tier I (or Tier II with networked controls)
Lightolier	LyteSpan	LT08RNF840	Accent Light Line-voltage	738	81	9 4000/4100K		80				Continuous Dimming	Tier I (or Tier II with networked controls)

Manufacturer	Brand	Model Number	LED Type	Light Output (lumens)	Efficacy (lumens per Watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016-17 Tier Level (LEDA)
Lightolier	LyteSpan	LT08RWF827	Accent Light Line-voltage	726	84	8	2700K	80				Continuous Dimming	Tier I (or Tier II with networked controls)
Lightolier	LyteSpan	LT08RWF830	Accent Light Line-voltage	717	81	8	3000K	80				Continuous Dimming	Tier I (or Tier II with networked controls)
Lightolier	LyteSpan	LT08RWF835	Accent Light Line-voltage	773	90	8	3500K	80				Continuous Dimming	Tier I (or Tier II with networked controls)
Lightolier	LyteSpan	LT08RWF840	Accent Light Line-voltage	840	92	9	4000/4100K	80				Continuous Dimming	Tier I (or Tier II with networked controls)
Lightolier	Alcyon	LLAH11830WTE	Accent Light Line-voltage	1171	78.2	15	3000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Lightolier	Alcyon	LLAH11835WTE	Accent Light Line-voltage	1211	83.7	14.5	3500K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Lightolier	Alcyon	LLAH11840WTE	Accent Light Line-voltage	1255	86	14.6	4000/4100K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Lightolier	Alcyon	LLAV0127	Accent Light Line-voltage	748	75	10	2700K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Lightolier	Alcyon	LLAV0130	Accent Light Line-voltage	748	75	10	3000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Lightolier	Alcyon	LLAV0140	Accent Light Line-voltage	748	75	10	4000/4100K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Lightolier	Alcyon	LLAV1127	Accent Light Line-voltage	1210	82	14	2700K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Lightolier	Alcyon	LLAV1130	Accent Light Line-voltage	1210	82	14	3000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Lightolier	Alcyon	LLAV1140	Accent Light Line-voltage	1210	82	14	4000/4100K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Lightolier	LyteSpan	LLAB030-3000K-RF	Accent Light Line-voltage	1010	77.1	13.1	3000K	80				Continuous Dimming	Tier I (or Tier II with networked controls)
Lightolier	LyteSpan	LLAB030-3000K-RNF	Accent Light Line-voltage	985	75.2	13.1	3000K	80				Continuous Dimming	Tier I (or Tier II with networked controls)
Lightolier	LyteSpan	LLAB030-3000K-RS	Accent Light Line-voltage	1018	77.7	13.1	3000K	80				Continuous Dimming	Tier I (or Tier II with networked controls)
Lightolier	LyteSpan	LLAB030-3000K-RSRNF	Accent Light Line-voltage	1018	77.7	13.1	3000K	80				Continuous Dimming	Tier I (or Tier II with networked controls)
Lightolier	Philips Lightolier	CP430K6	Downlight Recessed	649	80	8	3000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Lightolier	Philips Lightolier	CP630K10	Downlight Recessed	1093	86	12	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Lightolier	Philips Lightolier	CP630K6	Downlight Recessed	649	80	8	3000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Lightolier	LyteSpan	LLF230-3000K	Downlight Surface Mount	2527	79	31	3000K	87				Non-Dimmable	Tier I
Lightolier	LyteSpan	LLF230-3000K-277V	Downlight Surface Mount	2533	79	31	3000K	87				Non-Dimmable	Tier I
Lightolier	LyteSpan	LLF240-4000K	Downlight Surface Mount	2624	82	32	4000/4100K	87				Non-Dimmable	Tier I
Lightolier	LyteSpan	LLF240-4000K-277V	Downlight Surface Mount	2620	82	31	4000/4100K	87				Non-Dimmable	Tier I
			Downlight Solid State Retrofit										
ULEDs, LLC	ULEDs	ULEDsDL561440FA	Downlight Solid State Retrofit	970	77.8	13.4	4000/4100K	80				Continuous Dimming	Tier I (or Tier II with networked controls)
ULEDs, LLC	ULEDs	ULEDsDL561450FA	Downlight Solid State Retrofit	970	77.2	13.5	5000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Linmore LED Labs	Linmore LED	LL-URS-8NA-2-35K-36W	Direct Linear Ambient Luminaires	5318.2	145	36.63	3365	81	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Linmore LED Labs	Linmore LED	LL-URS-8NA-2-35K-44W	Direct Linear Ambient Luminaires	6341.57	144	44.08	3365	81	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Linmore LED Labs	Linmore LED	LL-URS-4NA-1-35K-22W	Direct Linear Ambient Luminaires	3291.85	147	22.41	3405	82	10			Continuous (Can dim down to ≤ 10% (W))	Tier II
Linmore LED Labs	Linmore LED	LL-URS-4NA-1-35K-36W	Direct Linear Ambient Luminaires	4874.73	143	34.06	3426	82	10			Continuous (Can dim down to ≤ 10% (W))	Tier II
Linmore LED Labs	Linmore LED	LL-URS-4NA-1-35K-26W	Direct Linear Ambient Luminaires	3476.36	150	23.23	3415	82	10			Continuous (Can dim down to ≤ 10% (W))	Tier II
Linmore LED Labs	Linmore LED	LL-URS-4NA-2-35K-60W	Direct Linear Ambient Luminaires	8993.93	142	63.39	3426	82	10			Continuous (Can dim down to ≤ 10% (W))	Tier II
Linmore LED Labs	Linmore LED	LL-URS-4NA-2-35K-36W	Direct Linear Ambient Luminaires	5570.99	152	36.65	3418	82	10			Continuous (Can dim down to ≤ 10% (W))	Tier II
Linmore LED Labs	Linmore LED	LL-UPH-50K-4-N-144-X-[OS or EM]	High-Bay Luminaires for Commercial and Industrial Buildings	20846.28	133.54	156.1	4989	82	10			Continuous (Can dim down to ≤ 10% (W))	Tier II
Linmore LED Labs	Linmore LED	LL-UPH-50K-2-N-72-X-[OS or EM]	High-Bay Luminaires for Commercial and Industrial Buildings	9600.58	137.23	69.96	5002	82	10			Continuous (Can dim down to ≤ 10% (W))	Tier II
Utileline Corporation	A-LINE	ATF7425-3038-WH	Accent Light Line-voltage	2135	79.6	25	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Utileline Corporation	A-LINE	X-ATF7509-YY38-UU	Accent Light Line-voltage	680	81.3	9	3000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Utileline Corporation	A-LINE	X-ATF7509-YY38-UU	Accent Light Line-voltage	700	81.3	9	3500K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Utileline Corporation	A-LINE	X-ATF7509-YY38-UU	Accent Light Line-voltage	740	81.3	9	4000/4100K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Utileline Corporation	A-LINE	X-ATF7509-YY38-UU	Accent Light Line-voltage	760	81.3	9	5000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
LITELINE CORPORATION	A-LINE	X-AFT7545-3038-YY	Track or Mono-Point Directional Luminaires	4001.37	94.39	42.39	2990	82.5	5			Not Dimmable	Tier I
LMHKOREA CO.,LTD	LMH Korea	LHL100-DC00FHV	High-Bay Luminaires for Commercial and Industrial Buildings	11532.72	121.07	95.26	5451	84.8	5			Stepped	Tier II
LMHKOREA CO.,LTD	LMH Korea	LHL 120-DC00FHV	High-Bay Luminaires for Commercial and Industrial Buildings	14037.45	117.03	119.95	5455	84.3	5			Stepped	Tier II
LOONYUNG LED LIGHTING CO.,LTD	LOONYUNG	LY-TSDL1200-15W(Z700K)	Direct Linear Ambient Luminaires	1739.9	114.17	15.24	2753	82.7	5			Not Yet Verified	Tier II
			Direct Linear Ambient Luminaires										
Louvers International Inc	LouversLED	RZR24-XXXXL-40K-XHD-X-X [120-277V ONLY]	Direct Linear Ambient Luminaires	2088	111.7	18.7	4040	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Louvers International Inc	LouversLED	RZR48-XXXXL-40K-XHD-X-X [120-277V ONLY]	Direct Linear Ambient Luminaires	6486	111.8	58	4060	84	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Louvers International Inc	LouversLED	RZR36-XXXXL-40K-XHD-X-X [120-277V ONLY]	Direct Linear Ambient Luminaires	4210	112.3	37.5	4050	84	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Louvers International Inc	Louvers LED	PHX22-230-4K	High-Bay Luminaires for Commercial and Industrial Buildings	28333.15	122.17	231.92	4149	85	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Louvers International Inc	Louvers LED	PHX22-145-4K	High-Bay Luminaires for Commercial and Industrial Buildings	17848.6	123.69	144.3	4143	84.4	7			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Louvers International Inc	LouversLED	RZR24-XXXXL-40K-XHC-N-X [120-277V ONLY]	Parking Garage Luminaires	2107.4	112.9	18.66	4040	84	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II

Manufacturer	Brand	Model Number	LED Type	Light Output (Lumens)	Efficacy (lumens per Watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016-17 Tier Level (LEDA)
Louvers International Inc	LouversLED	RZR36-XXXXL-40K-XHC-N-X [120-277V ONLY]	Parking Garage Luminaires	4125	111.22	37.09	3990	84	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Louvers International Inc	LouversLED	RZR48-XXXXL-40K-XHC-X-X [120-277V ONLY]	Parking Garage Luminaires	6538.3	112.34	58.2	4040	84	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Lowe's Home Improvement	UTILITECH Pro	MXL2006-LED2Ā—24K840	Downlight Pendant	3800	81.2	48	4000/4100K	84				Non-Dimmable	Tier I
Lowe's Home Improvement	Utilitech	19276-XXX	Downlight Recessed	700	78.4	10	3500K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Lowe's Home Improvement	PROJECT SOURCE	DLS22-06B30D1E-WH-1	Downlight Solid State Retrofit	650	88.7	10	3000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Lowe's Home Improvement	Utilitech	19277-XXX	Downlight Solid State Retrofit	850	78.9	11.5	3000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Lowe's Home Improvement	Utilitech	19277-XXX	Downlight Solid State Retrofit	850	78.9	11.5	3500K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Lowe's Home Improvement	Utilitech	19277-XXX	Downlight Solid State Retrofit	850	78.9	11.5	4000/4100K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Lowe's Home Improvement	Utilitech	19308-XXX	Downlight Solid State Retrofit	720	75.2	10	3000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Lowe's Home Improvement	Utilitech	19308-XXX	Downlight Solid State Retrofit	720	75.2	10	3500K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Lowe's Home Improvement	Utilitech	19308-XXX	Downlight Solid State Retrofit	720	75.2	10	4000/4100K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Lowe's Home Improvement	UTILITECH Pro	MQTL1016-LED8.5K827	Downlight Solid State Retrofit	600	80.7	8.5	2700K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Lowe's Home Improvement	UTILITECH Pro	MQTL1016-LED8.5K827	Downlight Solid State Retrofit	600	80.7	8.5	2700K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Lowe's Home Improvement	UTILITECH Pro	MQTL1016-LED8.5K827	Downlight Solid State Retrofit	600	80.1	8.5	2700K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Lowe's Home Improvement	UTILITECH Pro	MQTL1016-LED8.5K827	Downlight Solid State Retrofit	600	80.1	8.5	2700K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Lowe's Home Improvement	UTILITECH Pro	MQTL1016-LED8.5K850	Downlight Solid State Retrofit	600	79.3	8.5	5000K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Lowe's Home Improvement	UTILITECH Pro	MQTL1016-LED8.5K850	Downlight Solid State Retrofit	600	79.3	8.5	5000K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Lowe's Home Improvement	UTILITECH Pro	MQTL1016-LED8.5K850	Downlight Solid State Retrofit	600	87.3	8.5	5000K	85				Continuous Dimming	Tier I (or Tier II with networked controls)
Lowe's Home Improvement	UTILITECH Pro	MQTL1016-LED8.5K850	Downlight Solid State Retrofit	600	87.3	8.5	5000K	85				Continuous Dimming	Tier I (or Tier II with networked controls)
Lowe's Home Improvement	UTILITECH Pro	MQTL1017-LED11.5K827	Downlight Solid State Retrofit	700	88.7	11.5	2700K	80				Continuous Dimming	Tier I (or Tier II with networked controls)
Lowe's Home Improvement	UTILITECH Pro	MQTL1017-LED11.5K827	Downlight Solid State Retrofit	700	88.7	11.5	2700K	80				Continuous Dimming	Tier I (or Tier II with networked controls)
Lowe's Home Improvement	UTILITECH Pro	MQTL1017-LED11.5K827	Downlight Solid State Retrofit	700	80.1	11.5	2700K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Lowe's Home Improvement	UTILITECH Pro	MQTL1017-LED11.5K827	Downlight Solid State Retrofit	700	80.1	11.5	2700K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Lowe's Home Improvement	UTILITECH Pro	MQTL1017-LED11.5K850	Downlight Solid State Retrofit	700	81.7	11.5	5000K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Lowe's Home Improvement	UTILITECH Pro	MQTL1017-LED11.5K850	Downlight Solid State Retrofit	700	81.7	11.5	5000K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Lowe's Home Improvement	UTILITECH Pro	MQTL1017-LED11.5K850	Downlight Solid State Retrofit	700	87.3	11.5	5000K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Lowe's Home Improvement	UTILITECH Pro	MQTL1017-LED11.5K850	Downlight Solid State Retrofit	700	87.3	11.5	5000K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Lowe's Home Improvement	UTILITECH Pro	MQTL1017-LED18K827G	Downlight Solid State Retrofit	1250	84.3	18	2700K	80				Continuous Dimming	Tier I (or Tier II with networked controls)
Lowe's Home Improvement	UTILITECH Pro	MQTL1017-LED18K827G	Downlight Solid State Retrofit	1250	84.3	18	2700K	80				Continuous Dimming	Tier I (or Tier II with networked controls)
Lowe's Home Improvement	UTILITECH Pro	MQTL1017-LED18K827G	Downlight Solid State Retrofit	1250	78.1	18	2700K	80				Continuous Dimming	Tier I (or Tier II with networked controls)
Lowe's Home Improvement	UTILITECH Pro	MQTL1017-LED18K827G	Downlight Solid State Retrofit	1250	78.1	18	2700K	80				Continuous Dimming	Tier I (or Tier II with networked controls)
Lowe's Home Improvement	UTILITECH Pro	MQTL1017-LED18K850G	Downlight Solid State Retrofit	1250	82.9	18	5000K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Lowe's Home Improvement	UTILITECH Pro	MQTL1017-LED18K850G	Downlight Solid State Retrofit	1250	82.9	18	5000K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Lowe's Home Improvement	UTILITECH Pro	MQTL1017-LED18K850G	Downlight Solid State Retrofit	1250	90.9	18	5000K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Lowe's Home Improvement	UTILITECH Pro	MQTL1017-LED18K850G	Downlight Solid State Retrofit	1250	90.9	18	5000K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Lowe's Home Improvement	UTILITECH Pro	MQTL1024-LED10.5K827	Downlight Solid State Retrofit	600	75.6	8.5	2700K	86				Continuous Dimming	Tier I (or Tier II with networked controls)
Lowe's Home Improvement	UTILITECH Pro	MQTL1024-LED10.5K850	Downlight Solid State Retrofit	600	77.3	8.5	5000K	87				Continuous Dimming	Tier I (or Tier II with networked controls)
Lowe's Home Improvement	UTILITECH Pro	MQTL1025-LED10.5K827	Downlight Solid State Retrofit	700	81.2	10.5	2700K	87				Continuous Dimming	Tier I (or Tier II with networked controls)
Lowe's Home Improvement	PORTFOLIO	MXL2007-LED2Ā—34K840	Downlight Surface Mount	5000	80.6	68	4000/4100K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Lowe's Home Improvement	PORTFOLIO	MXL2007-LED2Ā—34K840	Downlight Surface Mount	5000	99.6	68	4000/4100K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Lowe's Home Improvement	UTILITECH Pro	MXL2005-LED1Ā—10K840	Downlight Surface Mount	900	98.8	10	4000/4100K	82				Non-Dimmable	Tier I
Lowe's Home Improvement	UTILITECH Pro	MXL2005-LED1Ā—20K840	Downlight Surface Mount	1800	104.3	20	4000/4100K	82				Non-Dimmable	Tier I
Lowe's Home Improvement	UTILITECH Pro	MXL2005-LED2Ā—10K840	Downlight Surface Mount	1800	98.4	20	4000/4100K	82				Non-Dimmable	Tier I
Lowe's Home Improvement	UTILITECH Pro	MXL2005-LED2Ā—20K840	Downlight Surface Mount	3600	98.4	40	4000/4100K	82				Non-Dimmable	Tier I
Lowe's Home Improvement	UTILITECH Pro	MXL4003-LED24K840	Downlight Surface Mount	1600	77.2	24	4000/4100K	85				Non-Dimmable	Tier I
LSI Industries	INTERIOR	AULS LED HO CW8 XX ACS22	High-Bay Luminaires for Commercial and Industrial Buildings	23527	122	192.9	5358	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
LSI Industries	INTERIOR	XLHB2 6 SDFL LED SS 50 XX	High-Bay Luminaires for Commercial and Industrial Buildings	23509	113	207.2	4937	73	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
LTG Lighting LTD	LTG LIGHTING LTD	74044	Downlight Surface Mount	900	79.4	12	4000/4100K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
LTG Lighting LTD	LTG LIGHTING LTD	74045	Downlight Surface Mount	1100	76.5	15	4000/4100K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
LTG Lighting LTD	LTG LIGHTING LTD	74046	Downlight Surface Mount	1800	82.8	23.5	4000/4100K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
LTG Lighting LTD	LTG LIGHTING LTD	74049	Downlight Surface Mount	2400	77.7	32	4000/4100K	84				Continuous Dimming	Tier I (or Tier II with networked controls)

Manufacturer	Brand	Model Number	LED Type	Light Output (lumens)	Efficacy (lumens per Watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016-17 Tier Level (LEDA)
LTG Lighting LTD	LTG LIGHTING LTD	74050	Downlight Surface Mount	900	79.4	12	4000/4100K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
LTG Lighting LTD	LTG LIGHTING LTD	74051	Downlight Surface Mount	1800	82.8	23.5	4000/4100K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
LTG Lighting LTD	LTG LIGHTING LTD	LTG-JB-11-13	Downlight Surface Mount	900	79.4	12	4000/4100K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
LTG Lighting LTD	LTG LIGHTING LTD	LTG-JB-13-16	Downlight Surface Mount	1100	76.5	15	4000/4100K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
LTG Lighting LTD	LTG LIGHTING LTD	LTG-JB-15-24	Downlight Surface Mount	1800	82.8	23.5	4000/4100K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
LTG Lighting LTD	LTG LIGHTING LTD	LTG-JB-19-32	Downlight Surface Mount	2400	77.7	32	4000/4100K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Lumax Lighting	Lumax Lighting	CHLED19L4K48-9 [DM1, MNL2]	Direct Linear Ambient Luminaires	1863	118.8	15.68	4058	83.77	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Lumax Lighting	Lumax Lighting	HBRLED189L5K24-9C1	High-Bay Luminaires for Commercial and Industrial Buildings	17520	125	140.7	5105	83.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Lumax Lighting	Lumax Lighting	HBRLED126L35K24-9FA	High-Bay Luminaires for Commercial and Industrial Buildings	11510	125	92.31	3586	82.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Lumax Lighting	Lumax Lighting	EHLED177L4K48-9	High-Bay Luminaires for Commercial and Industrial Buildings	17710	126	140.2	4071	83.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Lumax Lighting	Lumax Lighting	EHLED252L5K48-9	High-Bay Luminaires for Commercial and Industrial Buildings	25620	116.9	219.2	5133	83.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Lumax Lighting	Lumax Lighting	EHLED168L4K48-9	High-Bay Luminaires for Commercial and Industrial Buildings	16800	112.5	149.77	4102	84.38	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Lumax Lighting	Lumax Lighting	VWBTLED92L4K48-9FAR CLDLED16L5K24-95Q-(8)	Low-Bay Luminaires for Commercial and Industrial Buildings Stairwell and Passageway Luminaires	8978	114	78.69	4125	84.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Lumax Lighting	Lumax Lighting	LWP-QM-25-DB-1-NW-X-X-X-X-X	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	1739	101.87	17.07	5297	83.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Lumecon LLC	Lumecon	LAL-SB-60-DB-T5-1-NW-[ES6,ER6,ES0,ER0,ES12,ER12]-X-X-X-X-X-X	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	2471	107.3	23.02	4051	80.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Lumecon LLC	Lumecon	LAL-SB-120-DB-T5-1-NW-[ES6,ER6,ES0,ER0,ES12,ER12]-X-X-X-X-X-X	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	7061	113.7	62.11	4097	80.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Lumecon LLC	Lumecon	LAL-SB-120-DB-T5-1-NW-[ES6,ER6,ES0,ER0,ES12,ER12]-X-X-X-X-X-X	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	13324	123.4	108	4128	80.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Lumetra, LLC	Lumetra	LU-DL45-5&6-12W-D(2700K)	Downlight Recessed	907	78.2	12	2700K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Lumetra, LLC	Lumetra	LU-DL45-5&6-12W-D(3000K)	Downlight Recessed	918	81.5	12	3000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Lumetra, LLC	Lumetra	LU-DL45-5&6-12W-D(4000K)	Downlight Recessed	990	85.9	12	4000/4100K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Lumetra, LLC	Lumetra	LU-DL45-5&6-12W-D(5000K)	Downlight Recessed	1052	89.5	12	5000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Lumetra, LLC	Lumetra	LU-DL36-20W(2700K)	Downlight Solid State Retrofit	1470	75.7	20	2700K	85				Continuous Dimming	Tier I (or Tier II with networked controls)
Lumetra, LLC	Lumetra	LU-DL36-20W(3000K)	Downlight Solid State Retrofit	1500	76.2	20	3000K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Lumetra, LLC	Lumetra	LU-DL36-20W(4000K)	Downlight Solid State Retrofit	1540	79.9	20	4000/4100K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Lumetra, LLC	Lumetra	LU-DL36-20W(5000K)	Downlight Solid State Retrofit	1660	84.8	20	5000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Lumetra, LLC	Lumetra	LU-DL36-25W(4000K)	Downlight Solid State Retrofit	1827	78.9	25	4000/4100K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Lumetra, LLC	Lumetra	LU-DL36-25W(5000K)	Downlight Solid State Retrofit	1964	80.6	25	5000K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Lumetra, LLC	Lumetra	LU-DL36-30W(2700K)	Downlight Solid State Retrofit	2513	85.1	30	2700K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Lumetra, LLC	Lumetra	LU-DL36-30W(3000K)	Downlight Solid State Retrofit	2537	85.3	30	3000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Lumetra, LLC	Lumetra	LU-DL36-30W(4000K)	Downlight Solid State Retrofit	2568	86.3	30	4000/4100K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Lumetra, LLC	Lumetra	LU-DL36-30W(5000K)	Downlight Solid State Retrofit	2583	86.5	30	5000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Lumetra, LLC	Lumetra	LU-DL36-35W(2700K)	Downlight Solid State Retrofit	2752	81.7	35	2700K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Lumetra, LLC	Lumetra	LU-DL36-35W(3000K)	Downlight Solid State Retrofit	2786	83	35	3000K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Lumetra, LLC	Lumetra	LU-DL36-35W(4000K)	Downlight Solid State Retrofit	2815	84.7	35	4000/4100K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Lumetra, LLC	Lumetra	LU-DL36-35W(5000K)	Downlight Solid State Retrofit	2853	86.6	35	5000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Lumetra, LLC	Lumetra	LU-DL36-42W(2700K)	Downlight Solid State Retrofit	3100	77.6	40	2700K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Lumetra, LLC	Lumetra	LU-DL36-42W(3000K)	Downlight Solid State Retrofit	3186	78.2	40	3000K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Lumetra, LLC	Lumetra	LU-DL36-42W(4000K)	Downlight Solid State Retrofit	3253	79.4	40	4000/4100K	85				Continuous Dimming	Tier I (or Tier II with networked controls)
Lumetra, LLC	Lumetra	LU-DL36-42W(5000K)	Downlight Solid State Retrofit	3304	80	40	5000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Lumetra, LLC	Lumetra	LU-DL36-50W(2700K)	Downlight Solid State Retrofit	3698	75.1	50	2700K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Lumetra, LLC	Lumetra	LU-DL36-50W(3000K)	Downlight Solid State Retrofit	3753	76.4	50	3000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Lumetra, LLC	Lumetra	LU-DL36-50W(4000K)	Downlight Solid State Retrofit	3801	77.4	50	4000/4100K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Lumetra, LLC	Lumetra	LU-DL36-50W(5000K)	Downlight Solid State Retrofit	3862	78	50	5000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Lumetra, LLC	Lumetra	LU-DL40-4-9W-D(2700K)	Downlight Solid State Retrofit	706	78.9	9	2700K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Lumetra, LLC	Lumetra	LU-DL40-4-9W-D(3000K)	Downlight Solid State Retrofit	740	83.4	9	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Lumetra, LLC	Lumetra	LU-DL40-4-9W-D(4000K)	Downlight Solid State Retrofit	802	89.3	9	4000/4100K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Lumetra, LLC	Lumetra	LU-DL40-4-9W-D(5000K)	Downlight Solid State Retrofit	830	93.2	9	5000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Lumetra, LLC	Lumetra	LU-DL40-5&6-12W-D(2700K)	Downlight Solid State Retrofit	945	79.1	12.2	2700K	81				Continuous Dimming	Tier I (or Tier II with networked controls)

Manufacturer	Brand	Model Number	LED Type	Light Output (lumens)	Efficacy (lumens per Watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016-17 Tier Level (LEDA)
Lumectra, LLC	Lumectra	LU-DL40-5&6-12W-D(3000K)	Downlight Solid State Retrofit	978	82.3	12.2	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Lumectra, LLC	Lumectra	LU-DL40-5&6-12W-D(4000K)	Downlight Solid State Retrofit	1012	84.6	12.2	4000/4100K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Lumectra, LLC	Lumectra	LU-DL40-5&6-12W-D(5000K)	Downlight Solid State Retrofit	1055	88.5	12.2	5000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Lumectra, LLC	Lumectra	LU-DL40-6-14W-D(2700K)	Downlight Solid State Retrofit	1209	86.7	14.5	2700K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Lumectra, LLC	Lumectra	LU-DL40-6-14W-D(3000K)	Downlight Solid State Retrofit	1236	89.4	14.5	3000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Lumectra, LLC	Lumectra	LU-DL40-6-14W-D(4000K)	Downlight Solid State Retrofit	1295	94.2	14.5	4000/4100K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Lumectra, LLC	Lumectra	LU-DL40-6-14W-D(5000K)	Downlight Solid State Retrofit	1352	99.4	14.5	5000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Lumectra, LLC.	Lumectra	LU-HB01-100/T-3000K-50	High-Bay Luminaires for Commercial and Industrial Buildings	11480.45	112.136	102.38	3047	73	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Lumectra, LLC.	Lumectra	LU-HB01-100/T-5000K-50	High-Bay Luminaires for Commercial and Industrial Buildings	11810.16	114.064	103.54	5064	73.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Lumectra, LLC.	Lumectra	LU-HB01-120/T-3000K-50	High-Bay Luminaires for Commercial and Industrial Buildings	13613.418	110.391	123.32	3051	73	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Lumenor Energy Services, LLC	Lumenor Energy Services	LES-T8-94.5W-10645 -120-240V VIA4[RF, PD, PDI, RVF, S, WDI, WDJ]-HLO-LED-80-	High-Bay Luminaires for Commercial and Industrial Buildings	10645	112.6	94.5	5300	75	5			Not Yet Verified	Tier II
Lumenwerx ULC	Lumenwerx	500-40-4FT-UNV-D	Direct Linear Ambient Luminaires	2297	117.43	19.56	4131	86	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Lumerica Corporation	Lumerica	LM630-600	High-Bay Luminaires for Commercial and Industrial Buildings	20700	115.47	64.2	5183	74.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Lumerica Corporation	Lumerica	LM 630-400	High-Bay Luminaires for Commercial and Industrial Buildings	15790	115.28	136.97	5292	72.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Lumerica Corporation	Lumerica	LM 630-750	High-Bay Luminaires for Commercial and Industrial Buildings	26520	116.68	227.28	5316	76.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Lumerica Corporation	Lumerica	LM 603-150	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	4397	112.28	39.16	5041	71.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Lumerica Corporation	Lumerica	LM 608-250	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	6430	109.16	58.9	5092	73.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Lumerica Corporation	Lumerica	LM 644-250	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	8309	110.67	75.08	5418	75.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Lumia Energy Solutions LLC	LUMIA	LLF4L0023S[120V Only]	Direct Linear Ambient Luminaires	2503	110.3	22.69	3127	81	5			Not Yet Verified	Tier II
Lumight LLC	Lumight	L-NC200X	Architectural Flood and Spot Luminaires	2180.631	111.34	19.59	4071	72.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Lumight LLC	Lumight	L-NC40DX5	Architectural Flood and Spot Luminaires	4396.5	112.98	38.91	4954	73	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Luminance	Sunset Lighting	F9906-27	Downlight Solid State Retrofit	1168	75.7	16	2700K	87				Continuous Dimming	Tier I (or Tier II with networked controls)
Luminance	Sunset Lighting	F9907-27	Downlight Solid State Retrofit	1062	89.1	12.7	2700K	87				Continuous Dimming	Tier I (or Tier II with networked controls)
Luminance	Sunset Lighting	F9907-30	Downlight Solid State Retrofit	1062	89.1	12.7	3000K	87				Continuous Dimming	Tier I (or Tier II with networked controls)
Luminance	Sunset Lighting	F9907-35	Downlight Solid State Retrofit	1062	89.1	12.7	3500K	87				Continuous Dimming	Tier I (or Tier II with networked controls)
Luminance	Sunset Lighting	F9907-40	Downlight Solid State Retrofit	1062	89.1	12.7	4000/4100K	87				Continuous Dimming	Tier I (or Tier II with networked controls)
Luminance	Sunset Lighting	F9907-50	Downlight Solid State Retrofit	1062	89.1	12.7	5000K	87				Continuous Dimming	Tier I (or Tier II with networked controls)
Luminiz Inc.	Luminiz	4" Integrated LED Downlight	Downlight Recessed	750	87.1	9	3000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Luminiz Inc.	Luminiz	5"/6" Integrated LED Downlight	Downlight Recessed	1000	83.9	12	3000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Lutron Electronics Co Inc	Lutron	FXSWLX4L	Stairwell and Passageway Luminaires	2358	114	20.66	4032	82.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Lutron Electronics Co Inc	Lutron	FXSWLX4H	Stairwell and Passageway Luminaires	4234	106	40.12	4051	82.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Lutron Electronics Co Inc	Lutron	FXSWLX2L	Stairwell and Passageway Luminaires	1602	108	14.86	4045	82.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
LUX Technology Group	LUX Technology Group	LDWRWCR4D 12-50K	Downlight Solid State Retrofit	850	79.3	12	5000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
LUX Technology Group	LUX Technology Group	LDWTWCR4D 12-27K	Downlight Solid State Retrofit	850	79.3	12	2700K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
LUX Technology Group	LUX Technology Group	LDWTWCR4D12-30K	Downlight Solid State Retrofit	850	79.3	12	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
LUX Technology Group	LUX Technology Group	LDWTWCR4D 12-40K	Downlight Solid State Retrofit	900	79.3	12	4000/4100K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
LUX Technology Group	LUX Technology Group	LDWTWCR6D 12-27K	Downlight Solid State Retrofit	750	78.4	12	2700K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
LUX Technology Group	LUX Technology Group	LDWTWCR6D 12-30K	Downlight Solid State Retrofit	750	78.4	12	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
LUX Technology Group	LUX Technology Group	LDWTWCR6D 13-27K	Downlight Solid State Retrofit	900	86.7	13	2700K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
LUX Technology Group	LUX Technology Group	LDWTWCR6D 13-30K	Downlight Solid State Retrofit	900	86.7	13	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
LUX Technology Group	LUX Technology Group	LDWTWCR6D 13-40K	Downlight Solid State Retrofit	950	86.7	13	4000/4100K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
LUX Technology Group	LUX Technology Group	LDWTWCR6D 13-50K	Downlight Solid State Retrofit	950	86.7	13	5000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
LUX Technology Group	LUX Technology Group	LDWTWCR6D 19-27K	Downlight Solid State Retrofit	1200	79.9	19	2700K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
LUX Technology Group	LUX Technology Group	LDWTWCR6D 19-30K	Downlight Solid State Retrofit	1200	79.9	19	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
LUX Technology Group	LUX Technology Group	LDWTWCR6D 19-40K	Downlight Solid State Retrofit	1250	79.9	19	4000/4100K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
LUX Technology Group	LUX Technology Group	LDWTWCR6D 19-50K	Downlight Solid State Retrofit	1250	79.9	19	5000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Marketing Power Inc dba - EnviroTech	Enviro Tech	ENV-LED-RCR-408-G4-30	Downlight Solid State Retrofit	550	78.4	8	3000K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Marketing Power Inc dba - EnviroTech	Enviro Tech	ENV-LED-RCR-408-G4-41	Downlight Solid State Retrofit	550	78.4	8	4000/4100K	84				Continuous Dimming	Tier I (or Tier II with networked controls)

Manufacturer	Brand	Model Number	LED Type	Light Output (Lumens)	Efficacy (lumens per Watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016-17 Tier Level (LEDA)
Maxgreen LED Ltd.	MAXGREEN LED	MG-XDL-2-600-12L	High-Bay Luminares for Commercial and Industrial Buildings	12533.93	132.19	94.82	4992	75.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Maxgreen LED Ltd.	MAXGREEN LED	MG-XVL-1200-6L	Low-Bay Luminares for Commercial and Industrial Buildings	6012.82	127.55	47.14	5414	85.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Maxlite	MaxLite	RR84530W	Downlight Recessed	3400	77.9	45	3000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Maxlite	MaxLite	RR84540W	Downlight Recessed	3400	77.9	45	4000/4100K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Maxlite	MaxLED	RR61227W-L4	Downlight Solid State Retrofit	800	78.4	12	2700K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Maxlite	MaxLED	RR61230W-L4	Downlight Solid State Retrofit	800	78.4	12	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Maxlite	MaxLED	RR61827W-L4	Downlight Solid State Retrofit	1200	79.3	18	2700K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Maxlite	MaxLED	RR61830W-L4	Downlight Solid State Retrofit	1200	79.3	18	3000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Maxlite	MaxLite	RR61230W	Downlight Solid State Retrofit	1414	76.8	12	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Maxlite	Maxlite MaxLED	RRA61050W	Downlight Solid State Retrofit	900	95.6	10	5000K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
MaxLite, Inc	MAXLITE	LSU4806SU30DV40XX	Direct Linear Ambient Luminares	3583	116.09	30.86	4162	82.7	5			Not Yet Verified	Tier II
MaxLite, Inc	MAXLITE	LSV4806SU30DV40XX	Direct Linear Ambient Luminares	3937	126.87	31.03	4091	82.4	5			Not Yet Verified	Tier II
MaxLite, Inc	MAXLITE	LSU4806SU20DV40XX	Direct Linear Ambient Luminares	2193	110.24	19.89	3838	82.9	5			Not Yet Verified	Tier II
MaxLite, Inc	MAXLED	MLLHP100USD12/N	High-Bay Luminares for Commercial and Industrial Buildings	11660	117.14	99.54	5056	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
MaxLite, Inc	MAXLED	MLPKG40LED50XXXXXX	Parking Garage Luminares									Continuous (Can dim down to ≤ 10% (W))	Tier II
MaxLite, Inc	MAXLITE	LSP4805XX44DV35PKG	Parking Garage Luminares	4105.5	110.1	36.46	5223	78.6	5			Not Yet Verified	Tier II
MaxLite, Inc	MAXLED	LSP4805HU44DV35PKG	Parking Garage Luminares	4153	105.9	39.2	3548	85.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
MaxLite, Inc	MAXLED		Parking Garage Luminares	4153	105.14	39.5	3548	85.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
MaxLite, Inc	MAXLED	LSP9605HU55DV35PKG	Parking Garage Luminares	7095	121.9	58.2	3558	85	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
MaxLite, Inc	MAXLED	LSP4805XX44DV50PKG	Parking Garage Luminares	5063	129.5	39.1	5295	83.7	5			Not Yet Verified	Tier II
MaxLite, Inc	MAXLITE	LSV4806SU30DV40MS	Stairwell and Passageway Luminares	3937	126.87	31.03	4091	82.4	5			Not Yet Verified	Tier II
MaxLite, Inc	MAXLITE	LSU4806SU20DV40MS	Stairwell and Passageway Luminares	2193	110.24	19.89	3838	82.9	5			Not Yet Verified	Tier II
MaxLite, Inc	MAXLITE	LSU4806SU30DV40MS	Stairwell and Passageway Luminares	3583	116.09	30.86	4162	82.7	5			Not Yet Verified	Tier II
MaxLite, Inc	MAXLITE	LSV4806SU40DV40MS	Stairwell and Passageway Luminares	4423	107.81	41.03	3848	83.4	5			Not Yet Verified	Tier II
MaxLite, Inc	MAXLITE	LSV4806SU50DV40MS	Stairwell and Passageway Luminares	4988	105.52	47.37	3848	83.4	5			Not Yet Verified	Tier II
MaxLite, Inc	MAXLITE	LSU4806SU40DV40MS	Stairwell and Passageway Luminares	4251	103.32	41.14	3887	83.3	5			Not Yet Verified	Tier II
MaxLite, Inc	MAXLITE	LSV2406SU20DV40MS	Stairwell and Passageway Luminares	2203	104.91	21	3811	83.3	5			Not Yet Verified	Tier II
Maxxima	MAXXIMA	MRL-41200NW	Downlight Solid State Retrofit	850	79.3	12	4000/4100K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Maxxima	MAXXIMA	MRL-61900NW	Downlight Solid State Retrofit	1200	79.9	19	4000/4100K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Medinah Power	Medinah	MED-FL360-20-XX	Architctural Flood and Spot Luminares	2180.631	111.34	19.59	4071	72.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Medinah Power	Medinah	MED-FL1370-40-XX-5	Architctural Flood and Spot Luminares	4396.5	112.98	38.91	4954	73	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Mercury Lighting Products Co. Inc.	Mercury Lighting	LW4-8-8000-30K-HTA-U80-UNI-XXXX	Direct Linear Ambient Luminares	8541	113	75.29	3108	83.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Mercury Lighting Products Co. Inc.	LSV	LSV-4-4000-35K-HTP-SA50-UNI	Direct Linear Ambient Luminares	4148	115	36.082	3521	84.16	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Mester LED Limited	MESTER	HBL22D105W27V40KH[BLANK, M]MD[BLANK, B]	High-Bay Luminares for Commercial and Industrial Buildings	13328.07	134.37	99.19	3974	82.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Mester LED Limited	MESTER	HBL22D160W27V40KH[BLANK, M]MD[BLANK, B]	High-Bay Luminares for Commercial and Industrial Buildings	22007.54	132.6	165.97	3973	83.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Mester LED Limited	MESTER	HBL22D080W27V40KH[BLANK, M]MD[BLANK, B]	High-Bay Luminares for Commercial and Industrial Buildings	11006.7	140.89	78.12	3943	82.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Mester LED Limited	MESTER	HBL24D200W27V40KH[BLANK, M]MD[BLANK, B]	High-Bay Luminares for Commercial and Industrial Buildings	24507.38	121.12	202.34	4007	82.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Mester LED Limited	MESTER	HBL24D320W27V40KH[BLANK, M]MD[BLANK, B]	High-Bay Luminares for Commercial and Industrial Buildings	42406.6	131.15	323.34	4029	83.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Mester LED Limited	MESTER	HBL22D105W27V40KYYPD	High-Bay Luminares for Commercial and Industrial Buildings	13028.27	126.26	103.19	4034	82.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Mester LED Limited	MESTER	HBL22D080W27V40KH[Blank,M]AL	High-Bay Luminares for Commercial and Industrial Buildings	10554.08	134.95	78.21	3943	83.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Mester LED Limited	MESTER	HBL22D105W27V40KH[Blank,M]	High-Bay Luminares for Commercial and Industrial Buildings	13027.97	122.93	105.98	3973	83.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Mester LED Limited	MESTER	HBL22D160W27V40KH[Blank,M]AL	High-Bay Luminares for Commercial and Industrial Buildings	21935.21	136.15	161.11	3977	83.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Mester LED Limited	MESTER	HBL24D200W27V40KH[Blank,M]AL	High-Bay Luminares for Commercial and Industrial Buildings	24414	120.68	202	3884	83.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Mester LED Limited	MESTER	HBL24D320W27V40KH[Blank,M]AL	High-Bay Luminares for Commercial and Industrial Buildings	42420.77	130.48	325.1	3930	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Mester LED Limited	Mester	CDW32DR8XXKAZ	Downlight Recessed	2350	76.9	32	2700K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Mester LED Limited	Mester	CDW32DR8XXKAZ	Downlight Recessed	2350	76.9	32	3000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Mester LED Limited	Mester	CDW32DR8XXKAZ	Downlight Recessed	2350	76.9	32	3500K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Mester LED Limited	Mester	CDW32DR8XXKAZ	Downlight Recessed	2350	76.9	32	4000/4100K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Mester LED Limited	Mester	CDW32DR8XXKAZ	Downlight Recessed	2350	76.9	32	5000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Mester LED Limited	Mester	CDW45DR8XXKAZ	Downlight Recessed	3400	77.9	45	2700K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Mester LED Limited	Mester	CDW45DR8XXKAZ	Downlight Recessed	3400	77.9	45	3000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Mester LED Limited	Mester	CDW45DR8XXKAZ	Downlight Recessed	3400	77.9	45	3500K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Mester LED Limited	Mester	CDW45DR8XXKAZ	Downlight Recessed	3400	77.9	45	4000/4100K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Mester LED Limited	Mester	CDW45DR8XXKAZ	Downlight Recessed	3400	77.9	45	5000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Mester LED Limited	Mester	CDW48DR10XXKAZ	Downlight Recessed	3500	78.3	48	2700K	83				Continuous Dimming	Tier I (or Tier II with networked controls)

Manufacturer	Brand	Model Number	LED Type	Light Output (lumens)	Efficacy (lumens per Watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016-17 Tier Level (LEDA)
Mester LED Limited	Mester	CDW48DR10XXKAZ	Downlight Recessed	3500	78.3	48	3000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Mester LED Limited	Mester	CDW48DR10XXKAZ	Downlight Recessed	3500	78.3	48	3500K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Mester LED Limited	Mester	CDW48DR10XXKAZ	Downlight Recessed	3500	78.3	48	4000/4100K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Mester LED Limited	Mester	CDW48DR10XXKAZ	Downlight Recessed	3500	78.3	48	5000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Mester LED Limited	Mester	CDW22DR6XXKAZ	Downlight Recessed	1500	80.5	22	2700K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Mester LED Limited	Mester	CDW22DR6XXKAZ	Downlight Recessed	1500	80.5	22	3000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Mester LED Limited	Mester	CDW22DR6XXKAZ	Downlight Recessed	1500	80.5	22	3500K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Mester LED Limited	Mester	CDW22DR6XXKAZ	Downlight Recessed	1500	80.5	22	4000/4100K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Mester LED Limited	Mester	CDW22DR6XXKAZ	Downlight Recessed	1500	80.5	22	5000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Mester LED Limited	Mester	DW13DR5640K-H	Downlight Solid State Retrofit	791	77.8	12	4000/4100K	96				Continuous Dimming	Tier I (or Tier II with networked controls)
Meteor Lighting - ILOS Corporation	Meteor Lighting	CS-115-CW	High-Bay Luminaires for Commercial and Industrial Buildings	12531.33	117.22	106.9	5589	71.1	5			Not Yet Verified	Tier II
Metro LED	Metro LED	ML-RKIT-100WDM(4000K)	Retrofit Kits for Outdoor Full-Cutoff Wall-Mounted Area Luminaires	11695	113.96	102.6	3979	83.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Metro LED	Metro LED	ML-RKIT-60WND-HV(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	6851.2	116.39	58.91	3978	83.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Metro LED	Metro LED	ML-RKIT-80WND(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	9402.5	112.59	83.69	3992	83.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Metro LED	Metro LED	ML-RKIT-120WND(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	14082	113.34	124.2	3990	83.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Metro LED	Metro LED	ML-RKIT-150WND(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	18376	119.91	153.2	4003	83.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Metro LED	Metro LED	ML-RKIT-120WDM(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	15057	115.82	130	3998	83.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Metro LED	Metro LED	ML-RKIT-150WDM(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	18709	123.25	151.8	4007	83.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Metro LED	Metro LED	ML-RKIT-200WDM(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	27078	129.15	210.2	3990	83.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Metro LED	Metro LED	ML-RKIT-240WDM(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	28013	118.15	237.8	4001	83.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Metro LED	Metro LED	ML-RKIT-300WDM(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	35288	116.35	303.8	3995	83.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Metro LED	Metro LED	ML-RKIT-300WDM-HV(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	34952	117.21	298.2	3996	83.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Metro LED	Metro LED	ML-RKIT-400WDM(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	47542	113.38	420.5	3996	83.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Metro LED	Metro LED	ML-RKIT-480WDM(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	53085	112.97	470.5	4010	83.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Metro LED Sign & Light	Metro LED	ML-DL-10W	Downlight Solid State Retrofit	760	78.2	9.6	5000K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Metrosphere Light Corp.	METROSPHERE LIGHT CORP.	MET-D406-80 2700K	Downlight Solid State Retrofit	650	75.8	10	2700K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Metrosphere Light Corp.	METROSPHERE LIGHT CORP.	MET-D406-80 3000K	Downlight Solid State Retrofit	700	75.8	10	3000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Metrosphere Light Corp.	METROSPHERE LIGHT CORP.	MET-D406-80 4000K	Downlight Solid State Retrofit	750	75.8	10	4000/4100K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Metrosphere Light Corp.	METROSPHERE LIGHT CORP.	MET-D406-80 5000K	Downlight Solid State Retrofit	800	75.8	10	5000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
MHT Lighting	MHT Lighting	MHTL-WF-15E-5K-[120V ONLY]	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	1413	100.4	14.07	4923	82	5			Not Yet Verified	Tier II
MHT Lighting	MHT Lighting	MHTL-CL-45E-4K-U-[All Mountings]-DB	Parking Garage Luminaires	4289	102.7	41.78	4092	71.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
MHT Lighting	MHT Lighting	MHTL-SGL-50E-4K-U-[All Mountings]-DB	Parking Garage Luminaires	4932	105.3	46.82	4036	70.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
MHT Lighting	MHT LIGHTING	MHTL-SGL-38E-4K-U-DB-XX	Parking Garage Luminaires	4065	114.1	35.62	4013	70.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
MHT Lighting	MHT LIGHTING	MHTL-RGL-50E-4K-U-DB	Parking Garage Luminaires	4921	102.6	48.12	4058	70.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
MHT Lighting	MHT Lighting	MHTL-SGL-72E-4K-U-[All Mountings]-DB	Parking Garage Luminaires	7914	115.2	64.67	4034	70.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
MHT Lighting	MHT Lighting	MHTL-SGL-72E-5K-U-[All Mountings]-DB	Parking Garage Luminaires	7743	109.5	70.71	5025	72.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
MHT Lighting	MHT Lighting	MHTL-SGL-48E-4K-U-[All Mountings]-DB	Parking Garage Luminaires	5517	120	45.97	4006	70.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Modern Lighting Co	Modern Lighting Company	44-48LED28DMV30	Direct Linear Ambient Luminaires	3332	124.8	26.7	3100	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Modern Lighting Co	Modern Lighting	FHBC48-LEDH118DMV50	High-Bay Luminaires for Commercial and Industrial Buildings	13507	114	118.47	5136	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Morstar Inc	morstar	V-MMQ801	Downlight Recessed	640	77.5	9	2700K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Morstar Inc	morstar	V-MMQ801	Downlight Recessed	640	77.5	9	2700K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Morstar Inc	morstar	V-MMQ801	Downlight Recessed	640	77.5	9	2700K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Morstar Inc	morstar	V-MMQ801	Downlight Recessed	640	77.5	9	2700K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Mule Lighting, Inc.	LEDalux	LXSM301-40-DT	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	3729	101.2	36.85	5282	86	5			Not Yet Verified	Tier II
MW LED Inc.	MW LED	LED-4NRF-SMD	Downlight Solid State Retrofit	700	75.4	10	2700K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
NANJING JISHAN LIGHTING TECHNOLOGY CO., LTD	JISHAN	JS(I)-(BGK250W-A)	High-Bay Luminaires for Commercial and Industrial Buildings	27549	110.35	249.64	5798	71	5			Not Yet Verified	Tier II
NANJING JISHAN LIGHTING TECHNOLOGY CO., LTD	Jishan	JS(I)-(LIN-1204-300W)(4000K)	High-Bay Luminaires for Commercial and Industrial Buildings	38885.3	122.1	318.7	4150	85	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
NANJING JISHAN LIGHTING TECHNOLOGY CO., LTD	Jishan	JS(I)-(BGK360W-A)(4000K)	High-Bay Luminaires for Commercial and Industrial Buildings	44987.4	115.7	388.69	4067	83.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II

Manufacturer	Brand	Model Number	LED Type	Light Output (lumens)	Efficacy (lumens per Watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016-17 Tier Level (LEDA)
NANJING JISHAN LIGHTING TECHNOLOGY CO., LTD	JISHAN	JS(I)-(MAR200W)(4000K)	High-Bay Luminaires for Commercial and Industrial Buildings	18629	116.6	159.74	4067	83.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Neptun Light, Inc.	Neptun Light	LED-19050-AL-UNV-850	Low-Bay Luminaires for Commercial and Industrial Buildings	6187.78	118.71	52.13	5034	83.3	5			Not Yet Verified	Tier II
Neptun Light, Inc.	Neptun Light	LED-49-040-14-UNV-750	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	4189.3	104.48	40.09	5206	70.8	5			Not Yet Verified	Tier II
Neptun Light, Inc.	Neptun Light	LED-81040-L1-UNV-850	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	4490.12	109.67	40.94	4811	80.5	10			Not Yet Verified	Tier II
Neptun Light, Inc.	Neptun Light, Inc.	LED-35150-UNV-850-XXX-XXX	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	18067.726	122.501	147.49	4864	81.6	10			Continuous (Can dim down to ≤ 10% (W))	Tier II
New Earth Lighting	LiteChoice	1F6WHWH-2C50	Downlight Solid State Retrofit	800	78	11	5000K	80				Continuous Dimming	Tier I (or Tier II with networked controls)
New Earth Lighting	LiteChoice	1G6SCWH-2940	Downlight Solid State Retrofit	1148	78.6	14.6	4000/4100K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
New Earth Lighting	LiteChoice	9Y4WHWH-2C35	Downlight Solid State Retrofit	886	77.7	11.4	5000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
New Earth Lighting	LiteChoice	9Y4WHWH-2C50	Downlight Solid State Retrofit	886	77.7	11.4	5000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
New Earth Lighting	LiteChoice	9Y6WHWH-2C40	Downlight Solid State Retrofit	982	78.6	12.5	4000/4100K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
New Earth Lighting	LiteChoice	9Y6WHWH-2C50	Downlight Solid State Retrofit	1081	84.5	12.8	5000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
New Earth Lighting	LiteChoice	9Y6WHWH-4C50	Downlight Solid State Retrofit	1070	75.3	16	5000K	80				Continuous Dimming	Tier I (or Tier II with networked controls)
Nicor Inc.	NICOR LED	VT1-105-UNV-50K-BK	Architectural Flood and Spot Luminaires	3723	106	35	5285	83.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Nicor Inc.	Nicor LED	LS1-105-UNV-40	Direct Linear Ambient Luminaires	2948	115	25.55	3932	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Nicor Inc.	Nicor LED	LS1-10H-UNV-40	Direct Linear Ambient Luminaires	5251	112.5	46.58	3997	86.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Nicor Inc.	NICOR LED	HBC-10-240W-UNV-40K-AL60	High-Bay Luminaires for Commercial and Industrial Buildings	29150	121	240.9	3998	82.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Nicor Inc.	NICOR LED	HBC-10-150W-UNV-40K-AL60	High-Bay Luminaires for Commercial and Industrial Buildings	19240	124.5	154.5	4037	82.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Nicor Inc.	NICOR LED	HBL-10-100W-UNV-40K	High-Bay Luminaires for Commercial and Industrial Buildings	12360	113.81	108.6	4168	84.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Nicor Inc.	NICOR LED	HBL-10-150W-UNV-40K	High-Bay Luminaires for Commercial and Industrial Buildings	18780	116.86	160.7	4187	84.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Nicor Inc.	NICOR LED	HBL-10-100W-UNV-50K	High-Bay Luminaires for Commercial and Industrial Buildings	13030	122.23	106.6	5337	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Nicor Inc.	NICOR	DLG4-10-120-#K-&&	Downlight Recessed	600	76.2	8.2	2700K	87				Continuous Dimming	Tier I (or Tier II with networked controls)
Nicor Inc.	NICOR	CDR6-18W-30K-##	Downlight Solid State Retrofit	1400	81.6	18	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Nicor Inc.	NICOR	CDR6-18W-35K-##	Downlight Solid State Retrofit	1400	81.6	18	3500K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Nicor Inc.	NICOR	CDR6-18W-40K-##	Downlight Solid State Retrofit	1400	83.8	18	4000/4100K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Nicor Inc.	NICOR	CDR6-18W-50K-##	Downlight Solid State Retrofit	1400	83.8	18	5000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Nicor Inc.	NICOR	CDR6-27W-30K-##	Downlight Solid State Retrofit	2200	80.8	27.5	3000K	80				Continuous Dimming	Tier I (or Tier II with networked controls)
Nicor Inc.	NICOR	CDR6-27W-35K-##	Downlight Solid State Retrofit	2200	80.8	27.5	3500K	80				Continuous Dimming	Tier I (or Tier II with networked controls)
Nicor Inc.	NICOR	CDR6-27W-40K-##	Downlight Solid State Retrofit	2300	83.3	28.1	4000/4100K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Nicor Inc.	NICOR	CDR6-27W-50K-##	Downlight Solid State Retrofit	2300	83.3	28.1	5000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Nicor Inc.	NICOR	CDR8-18W-30K-##	Downlight Solid State Retrofit	1400	80	18	3000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Nicor Inc.	NICOR	CDR8-18W-35K-##	Downlight Solid State Retrofit	1400	80	18	3500K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Nicor Inc.	NICOR	CDR8-18W-40K-##	Downlight Solid State Retrofit	1470	81.6	18	4000/4100K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Nicor Inc.	NICOR	CDR8-18W-50K-##	Downlight Solid State Retrofit	1470	81.6	18	5000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Nicor Inc.	NICOR	CDR8-27W-40K-##	Downlight Solid State Retrofit	2000	75.7	28.4	4000/4100K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Nicor Inc.	NICOR	CDR8-27W-50K-##	Downlight Solid State Retrofit	2100	75.7	28.4	5000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Nicor Inc.	NICOR	CDR8-40W-40K-##	Downlight Solid State Retrofit	3000	76.7	40.2	4000/4100K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Nicor Inc.	NICOR	CDR8-40W-50K-##	Downlight Solid State Retrofit	3000	76.7	40.2	5000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Nicor Inc.	NICOR	DEB56-XX-120-50K-&&	Downlight Solid State Retrofit	1000	86.2	13	5000K	87				Continuous Dimming	Tier I (or Tier II with networked controls)
Nicor Inc.	NICOR	DLG56-XX-120-50K-&&	Downlight Solid State Retrofit	1100	89.1	13	5000K	87				Continuous Dimming	Tier I (or Tier II with networked controls)
Ningbo Fortec Lighting Co., Ltd.	FORTEC	FD-U4A 3000K	Downlight Recessed	630	79.7	8	3000K	84				Non-Dimmable	Tier I
Ningbo Fortec Lighting Co., Ltd.	FORTEC	FD-U6A 3000K	Downlight Recessed	950	90.7	11	3000K	84				Non-Dimmable	Tier I
			Architectural Flood and Spot Luminaires									Continuous (Can dim down to ≤ 10% (W))	Tier II
NINGBO MORELUX LIGHTING MFG LTD	MORELUX	FL1400-103W-40K-W66-6-D-XX-X	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	12428	113.08	109.9	4014	73.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
NINGBO MORELUX LIGHTING MFG LTD	MORELUX	WPL130-040W-40K-8-D-XX-2	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	4105.4	100.83	40.72	4068	82.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
NINGBO MORELUX LIGHTING MFG LTD	MORELUX	WPL120-030W-40K-8-D-XX-2	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	3071.7	101.3	30.32	4035	82.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
NINGBO MORELUX LIGHTING MFG LTD	MORELUX	WPL110-020W-40K-8-D-XX-2	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	2147	103.14	20.82	4010	82.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
NINGBO MORELUX LIGHTING MFG LTD	MORELUX	WPL110-015W-40K-8-D-XX-2	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	1646.1	102.55	16.05	4041	82.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
NINGBO MORELUX LIGHTING MFG LTD	MORELUX	WPL280-052W-40K-6-D-XX	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	6227	114.17	54.54	3953	73.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
		FL-0242-A-4000K	Architectural Flood and Spot Luminaires									Not Yet Verified	Tier II
Ningbo Splendid Lighting Technology Co., Ltd	Splendid		Downlight Recessed	2073.849	101.809	20.37	4026	74.5	5			Continuous Dimming	Tier I (or Tier II with networked controls)
Nora Lighting	Nora Lighting	NLOP-R650927X	Downlight Recessed	800	79.6	12.5	2700K	94				Continuous Dimming	Tier I (or Tier II with networked controls)

Manufacturer	Brand	Model Number	LED Type	Light Output (lumens)	Efficacy (lumens per Watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016-17 Tier Level (LEDA)
Nora Lighting	Nora Lighting	NLOP-R650950X	Downlight Recessed	800	79.6	12.5	2700K	94				Continuous Dimming	Tier I (or Tier II with networked controls)
Nora Lighting	Nora Lighting	NC-63XX4027YY	Downlight Recessed	3333	77.7	42.9	2700K	93				Continuous Dimming	Tier I (or Tier II with networked controls)
Nora Lighting	Nora Lighting	NC-63XX4030YY	Downlight Recessed	3333	77.7	42.9	3000K	93				Continuous Dimming	Tier I (or Tier II with networked controls)
Nora Lighting	Nora Lighting	NC-63XX4035YY	Downlight Recessed	3333	77.7	42.9	3500K	93				Continuous Dimming	Tier I (or Tier II with networked controls)
Nora Lighting	Nora Lighting	NC-63XX4040YY	Downlight Recessed	3333	77.7	42.9	4000/4100K	93				Continuous Dimming	Tier I (or Tier II with networked controls)
Nora Lighting	Nora Lighting	NC-83XX4027YY	Downlight Recessed	3333	77.7	42.9	2700K	93				Continuous Dimming	Tier I (or Tier II with networked controls)
Nora Lighting	Nora Lighting	NC-83XX4030YY	Downlight Recessed	3333	77.7	42.9	3000K	93				Continuous Dimming	Tier I (or Tier II with networked controls)
Nora Lighting	Nora Lighting	NC-83XX4035YY	Downlight Recessed	3333	77.7	42.9	3500K	93				Continuous Dimming	Tier I (or Tier II with networked controls)
Nora Lighting	Nora Lighting	NC-83XX4040YY	Downlight Recessed	3333	77.7	42.9	4000/4100K	93				Continuous Dimming	Tier I (or Tier II with networked controls)
Noribachi	Noribachi	HEX-105-B-NW-MT-HBM-010v-80D-[optional upgrades]-[mounting]	High-Bay Luminaires for Commercial and Industrial Buildings	21590	116.5	185.3	3928	76.4	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Noribachi	Noribachi	HEX-210-B-NW-MT-HBM-010v-80D-[optional upgrades]-[mounting]	High-Bay Luminaires for Commercial and Industrial Buildings	42340	114.4	370.2	3969	76.3	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Nuwave LLC	ALSET	52050	High-Bay Luminaires for Commercial and Industrial Buildings	28333.15	122.17	231.92	4149	85	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Nuwave LLC	ALSET	52000	High-Bay Luminaires for Commercial and Industrial Buildings	17848.6	123.69	144.3	4143	84.4	7			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Nuwave LLC	Alset	SLA-27L-30K-UL-NPC-DM	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	25251	111.42	228.3	3014	74.1	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Ohyama Lights LLC	Ohyama Lights	OLLN4-30N-UNV	Direct Linear Ambient Luminaires	3223.128	118.979	27.09	3970	84.5	5			Stepped	Tier II
Ohyama Lights LLC	Ohyama Lights	OLLN4-30N-UNV-M	Stairwell and Passageway Luminaires	3255.471	118.136	27.557	3993	84.9	5			Stepped	Tier II
Ohyama Lights LLC	Ohyama Lights	OLLN4-30N-UNV-M-EB	Stairwell and Passageway Luminaires	3157.878	116.699	27.06	4016	84.7	5			Stepped	Tier II
Ohyama Lights LLC	OHYAMA LIGHTS	OLEDL6-13XR-UNV	Downlight Solid State Retrofit	1100	96.9	13	3000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Ohyama Lights LLC	OHYAMA LIGHTS	OLEDL8-13XR-UNV	Downlight Solid State Retrofit	1100	101.5	13	3000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Ohyama Lights LLC	OHYAMA LIGHTS	OLEDL8-13XS-UNV	Downlight Solid State Retrofit	1100	99.3	13	3000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Ohyama Lights LLC	OHYAMA LIGHTS	OLDK06R-15W	Downlight Solid State Retrofit	900	80	13	3000K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Ohyama Lights LLC	OHYAMA LIGHTS	OLEDL12-16XR-UNV	Downlight Solid State Retrofit	1370	101.9	16	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Ohyama Lights LLC	OHYAMA LIGHTS	OLEDL12-16XS-UNV	Downlight Solid State Retrofit	1370	104	16	3000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
On Time Lighting	On Time Lighting	IB3L-4-120-850-WD	High-Bay Luminaires for Commercial and Industrial Buildings	11990	122.4	96.74	5228	85.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
OptoLight	OptoLight	OP-DL6DWP-13W-50	Downlight Solid State Retrofit	900	86.7	13	5000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Orion Energy Systems, Inc	Orion	ALHB180LMUNVXXX840XXL	High-Bay Luminaires for Commercial and Industrial Buildings	16200	112	147	3993	82	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Orion Energy Systems, Inc	Orion	4PG40WLEXXXXX	Parking Garage Luminaires	4968	105	47.31	5134	82.9	5			Not Yet Verified	Tier II
Orion Energy Systems, Inc	Orion	SWHU1036LUNVONOFAP830	Stairwell and Passageway Luminaires	3601	115.4	32.28	3095	84	5			Stepped	Tier II
OSRAM SYLVANIA	Sylvania	73159	Downlight Recessed	700	92.9	10	5000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
OSRAM SYLVANIA	Sylvania [Osram]	73675	Downlight Recessed	900	77.5	13	3000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
OSRAM SYLVANIA	Sylvania [Osram]	73676	Downlight Recessed	900	77.5	13	3000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
OSRAM SYLVANIA	Sylvania [Osram]	73678	Downlight Recessed	1100	96.9	13	5000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
OSRAM SYLVANIA	Sylvania [Osram]	75094	Downlight Recessed	900	77.5	13	3000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
OSRAM SYLVANIA	Sylvania [Osram]	75137	Downlight Recessed	900	89.5	13	2700K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
OSRAM SYLVANIA	Sylvania [Osram]	75138	Downlight Recessed	900	92.6	13	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
OSRAM SYLVANIA	Sylvania [Osram]	75139	Downlight Recessed	900	95	13	4000/4100K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
OSRAM SYLVANIA	Sylvania [Osram]	75140	Downlight Recessed	900	90.9	13	3500K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
OSRAM SYLVANIA	OSRAM SYLVANIA	70387	Downlight Solid State Retrofit	600	77.5	9	2700K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
OSRAM SYLVANIA	OSRAM SYLVANIA	73466	Downlight Solid State Retrofit	900	75.1	13	2700K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
OSRAM SYLVANIA	OSRAM SYLVANIA	73498	Downlight Solid State Retrofit	1200	84	16	2700K	80				Continuous Dimming	Tier I (or Tier II with networked controls)
OSRAM SYLVANIA	Sylvania	71911	Downlight Solid State Retrofit	900	75.1	13	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
OSRAM SYLVANIA	Sylvania	72089	Downlight Solid State Retrofit	700	76.8	10	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
OSRAM SYLVANIA	Sylvania	72633	Downlight Solid State Retrofit	900	78.5	13	2700K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
OSRAM SYLVANIA	Sylvania	73424 - LED/1100/LD/850/RP	Downlight Solid State Retrofit	1100	89.1	13	5000K	85				Continuous Dimming	Tier I (or Tier II with networked controls)
OSRAM SYLVANIA	SYLVANIA and OSRAM	73677	Downlight Solid State Retrofit	700	77	10	3000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
OSRAM SYLVANIA	Sylvania [Osram]	73157	Downlight Solid State Retrofit	700	88.1	10	4000/4100K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
OSRAM SYLVANIA	Sylvania [Osram]	73159	Downlight Solid State Retrofit	700	88.3	10	5000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
OSRAM SYLVANIA	Sylvania [Osram]	73394	Downlight Solid State Retrofit	700	80.3	10	2700K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
OSRAM SYLVANIA	Sylvania [Osram]	73395	Downlight Solid State Retrofit	700	84.9	10	3000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
OSRAM SYLVANIA	Sylvania [Osram]	73396	Downlight Solid State Retrofit	900	83.1	13	2700K	83				Continuous Dimming	Tier I (or Tier II with networked controls)

Manufacturer	Brand	Model Number	LED Type	Light Output (lumens)	Efficacy (lumens per Watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016-17 Tier Level (LEDA)
OSRAM SYLVANIA	Sylvania [Osram]	73397	Downlight Solid State Retrofit	900	87.6	13	3000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
OSRAM SYLVANIA	Sylvania [Osram]	73422	Downlight Solid State Retrofit	900	87.6	13	3000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
OSRAM SYLVANIA	Sylvania [Osram]	73835	Downlight Solid State Retrofit	600	86.1	9	4000/4100K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
OSRAM SYLVANIA	Sylvania [Osram]	73836	Downlight Solid State Retrofit	600	86.1	9	5000K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
OSRAM SYLVANIA	Sylvania [Osram]	73998	Downlight Solid State Retrofit	700	80.3	10	2700K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
OSRAM SYLVANIA	SYLVANIA: OSRAM	72487	Downlight Solid State Retrofit	1500	82.6	21	3000K	85				Non-Dimmable	Tier I
OSRAM SYLVANIA	SYLVANIA: OSRAM	72503	Downlight Solid State Retrofit	2000	90.7	27	3000K	82				Non-Dimmable	Tier I
Osram Sylvania, Inc.	PermaLED Floodlight	FLS-L-035-740-WF-UNV-XX	Architectural Flood and Spot Luminaires	3943	111.4	35.38	4158	81.9	5			Not Yet Verified	Tier II
Osram Sylvania, Inc.	Osram Sylvania	HBR-L-110-740-C5-UNV-XX	High-Bay Luminaires for Commercial and Industrial Buildings	12227.84	110	100.98	4098	75	5			Not Yet Verified	Tier II
Osram Sylvania, Inc.	PermaLED Area Light	ALS-L-035-740-M3-UNV-[All Housing Colors]	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	4050	113.8	35.6	4121	81.5	5			Not Yet Verified	Tier II
Osram Sylvania, Inc.	PermaLED Area Light	ALS-L-035-750-M3-UNV-[All Housing Colors]	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	4063	116.4	34.9	4798	76.5	5			Not Yet Verified	Tier II
Osram Sylvania, Inc.	PermaLED Area Light	ALS-L-090-740-M5-UNV-[All Housing Colors]	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	9550	105.8	90.28	4206	81.7	5			Not Yet Verified	Tier II
Osram Sylvania, Inc.	PermaLED Area Light	ALS-L-090-750-M5-UNV-[All Housing Colors]	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	9850	114.4	88.4	4879	78	5			Not Yet Verified	Tier II
Osram Sylvania, Inc.	PermaLED Area Light	ALS-L-055-750-M5-UNV-[All Housing Colors]	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	5741	105.5	54.43	5084	74.3	5			Not Yet Verified	Tier II
Osram Sylvania, Inc.	PermaLED Area Light	ALM-L-090-750-M5-UNV-XX	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	10345	120.9	85.56	4818	74.1	5			Not Yet Verified	Tier II
Osram Sylvania, Inc.	PermaLED	LSC-L-40-750-T5-UNV-XX	Parking Garage Luminaires	4576	111.46	41.05	4837	74	5			Not Yet Verified	Tier II
Osram Sylvania, Inc.	PermaLED	LSC-L-40-740-T5-UNV-XX	Parking Garage Luminaires	4286	105.48	40.64	3948	78	5			Not Yet Verified	Tier II
Osram Sylvania, Inc.	Osram	LS2-L-25-740-T5-UNV-DX-OSP-XX	Parking Garage Luminaires	2318.85	100	22.95	4027	77	5			Not Yet Verified	Tier II
Osram Sylvania, Inc.	PermaLED	LSC-L-55-750-T5-UNV-XX	Parking Garage Luminaires	6142	113.57	54.08	4943	74	5			Not Yet Verified	Tier II
Osram Sylvania, Inc.	SYLVANIA ULTRA LED T8 HE	LED19T8/L48/F/1X2HE/830/UNV	2-lamp External driver Lamp-style retrofit kits (UL Type C)	2244.92	117.78	19.06	2997	81.7	5			Not Yet Verified	Tier I
Osram Sylvania, Inc.	Osram Sylvania	73121 LED19T8L48/F/1X2HE/830/347V	2-lamp External driver Lamp-style retrofit kits (UL Type C)	2042.82	116.07	17.6	3001	84.4	5			Not Yet Verified	Tier I
Outrace Technology Co.,Ltd.	OUTRACE	OU010-D4A	Downlight Solid State Retrofit	800	86.9	10	3000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Outrace Technology Co.,Ltd.	OUTRACE	OU013-D5A	Downlight Solid State Retrofit	1100	87.2	13	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
P.L. Light Systems Canada Inc.	AGRILED	AGRILED 11	Low-Bay Luminaires for Commercial and Industrial Buildings	9569	116.4	82.21	4109	84.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
P.L. Light Systems Canada Inc.	AGRILED	AGRILED 8	Low-Bay Luminaires for Commercial and Industrial Buildings	7674	126.8	60.51	4042	84.49	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
P.Q.L., Inc.	Superior Lamp	90905	Downlight Recessed	1200	79.9	15	3000K	83				Non-Dimmable	Tier I
P.Q.L., Inc.	Superior Life	90904	Downlight Recessed	625	75.1	9	3000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
P.Q.L., Inc.	Superior Life	90909	Downlight Solid State Retrofit	750	78.4	10	2700K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
P.Q.L., Inc.	Superior Life	90912	Downlight Solid State Retrofit	700	75.8	10	3000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
P.Q.L., Inc.	Superior Life	90913	Downlight Solid State Retrofit	1100	76.5	15	3000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
PACLIGHTS, LLC	PACLIGHTS	RK120LVD-NW	Retrofit Kits for High-Bay Luminaires for Commercial and Industrial Buildings	13362	110.16	121.3	4000	72.9	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
PACLIGHTS, LLC	PACLIGHTS	RK65HVD-NW	Retrofit Kits for Outdoor Full-Cutoff Wall-Mounted Area Luminaires	7050.3	106.48	66.21	4161	67.2	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
PA-CO Lighting	PA-CO Lighting	PENE-24-LED-150-40-MVOLT	High-Bay Luminaires for Commercial and Industrial Buildings	14568	110.9	131.39	4072	84.71	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Peerless Electric Company Ltd.	AP4-HB	AP4-HB-4-120-40K-ACF-xxx-xx-MV-D1	High-Bay Luminaires for Commercial and Industrial Buildings	12337	117.1	105.32	4045	84.32	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Peerless Electric Company Ltd.	AP4-HB	AP4-HB-4-240-40K-ACF-xxx-xx-MV-D1	High-Bay Luminaires for Commercial and Industrial Buildings	25074.28	116.3	215.6	4045	84.32	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Philips Day-Brite	Philips Day-Brite	HBX13L40-XXX(347,480)-W-XX-XXX	High-Bay Luminaires for Commercial and Industrial Buildings	11569.69	113.54	101.9	3833	83.22	5			Not Yet Verified	Tier II
Philips Day-Brite	Philips Day-Brite	HBX24L40-XXX(347,480)-W-XX-XXX	High-Bay Luminaires for Commercial and Industrial Buildings	22763.39	113.03	201.4	3840	83.22	5			Not Yet Verified	Tier II
Philips Day-Brite	Philips Day-Brite	HBX17L40-XXX(347,480)-W-XX-XXX	High-Bay Luminaires for Commercial and Industrial Buildings	17568.79	116.89	150.3	3825	83.19	5			Not Yet Verified	Tier II
Philips Day-Brite	Philips Day-Brite	FBX16L40-(UNV,120,208,240,277)-LCP-(HE)	High-Bay Luminaires for Commercial and Industrial Buildings	15942	127.74	124.8	4052	81.95	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Philips Day-Brite	VaporLume LED	DWAE51LH850-4-UNV-WHP-[MD360W]	Parking Garage Luminaires	5118.35	108.67	47.1	5013	81.01	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Philips Day-Brite	FluxStream Linear LED	LF4FR3935US2T-FH360	Stairwell and Passageway Luminaires	3290	100.9	41.71	3443	83.3	5			Not Yet Verified	Tier II
Philips Day-Brite	Philips Day-Brite	LF4FR6030US2T(FH360)	Stairwell and Passageway Luminaires	5822.1	110.69	52.6	3064	80.4	5			Stepped	Tier II
Philips Gardco	SoftView	SVPG-168L-600-CW-cc-5-eee-fff	Parking Garage Luminaires	2819	103.5	27.24	5825	73.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Philips Lighting North America Corporation	PHILIPS	59220/XX/YY	Downlight Solid State Retrofit	680	80	8.5	5000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Philips Lighting North America Corporation	PHILIPS	59223/XX/YY	Downlight Solid State Retrofit	800	80	10	5000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Philips Lumec	SoleCity Street and Area LED	ULS100-35W32LED4K-R-LE4[120V Only]	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	3638	101.5	35.84	3791	75	5			Not Yet Verified	Tier II
Philips Lumec	StreetView LED Cobra Head	SVS-25W16LED4K-T-LE3	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	2729	112.3	24.31	3911	75	5			Not Yet Verified	Tier II
Philips Lumec	RoadFocus LED	RFS-35W16LED4K-T-R3M [120V to 277V]	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	4015	107.1	37.48	4134	74	5			Not Yet Verified	Tier II
Philips Lumec	Philips Lumec	SVM-30W16LED4K-G2-LE2-XXX (120v- 277V)	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	3780	104.6	36.13	3951	72	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Philips Lumec	Philips Lumec	SVM-16W16LED4K-G2-LE2 -XXX (120v- 277V)	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	2156	112.8	19.12	3899	72	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Philips Lumec	Philips Lumec	SVM-32W32LED4K-G2-LE2-XXX(120v- 347V only)	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	4073	118.1	34.49	3899	72	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Philips Lumec	Philips Lumec	SVM-48W32LED4K-G2-LE2-XXX(120v- 480V)	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	6111	115.6	52.85	3898	72	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Philips Lumec	Philips Lumec	SVM-72W48LED4K-G2-LE2-XXX (120v- 480V)	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	8956	113.8	78.7	3898	72	5			Continuous (Can dim down to ≤ 10% (W))	Tier II

Manufacturer	Brand	Model Number	LED Type	Light Output (lumens)	Efficacy (lumens per Watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016-17 Tier Level (LEDA)
Philips Lumec	Philips Lumec	SVM-48W48LED4K-G2-LE2-XXX(120v- 480V)	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	6320	116.4	54.29	3898	72	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Philips Optimum	Philips Optimum	SL 4FT 04L UV 840	Direct Linear Ambient Luminaires	3905.21	117.27	33.3	3946	82.21	5			Not Yet Verified	Tier II
Philips Optimum	Philips Optimum	SRL 4FT 05L UV 840	Direct Linear Ambient Luminaires	4745	116	40.74	4198	84.5	5			Not Yet Verified	Tier II
Philips Optimum	Philips Optimum	SL 3FT 02L UV 840	Direct Linear Ambient Luminaires	1590	124	12.83	4003	84.2	5			Not Yet Verified	Tier II
Philips Optimum	Philips Optimum	SL 4FT 02L UV 840	Direct Linear Ambient Luminaires	2016	124.4	16.23	4001	84.1	5			Not Yet Verified	Tier II
Philips Optimum	Philips Optimum	SL 8FT 06L UV 840	Direct Linear Ambient Luminaires	6197	126	49.32	4020	82.6	5			Not Yet Verified	Tier II
			Direct Linear Ambient Luminaires									Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Philips Optimum	Philips Optimum	SL 4FT 05L UV 840		4802.17	114.07	42.1	3953	82.1	5			Not Yet Verified	Tier II
Philips Optimum	Philips Optimum	G16L 4FT 25L UV 850	High-Bay Luminaires for Commercial and Industrial Buildings	25357	110.4	229.8	5344	84.7	5			Not Yet Verified	Tier II
Philips Optimum	Philips Optimum	G16L 4FT 13L UV 840	High-Bay Luminaires for Commercial and Industrial Buildings	14080	127	111.2	4061	84	5			Not Yet Verified	Tier II
Philips Optimum	Philips Optimum	G10L 4FT 16L UV 840	High-Bay Luminaires for Commercial and Industrial Buildings	16806	110.5	151.8	4191	83.4	5			Not Yet Verified	Tier II
Philips Optimum	Philips Optimum	G10L 4FT 08L UV 835 [OS, OS(DIM), FSP-211]	High-Bay Luminaires for Commercial and Industrial Buildings	10010.42	130.34	76.8	3544	82.02	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Philips Optimum	Philips Optimum	G10L 4FT 16L UV 835 [OS, OS(DIM), FSP-211]	High-Bay Luminaires for Commercial and Industrial Buildings	17427.45	114.73	154.3	3629	82.06	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Philips Optimum	Philips Optimum	G10L 4FT 16L UV 850 [OS, OS(DIM), FSP-211]	High-Bay Luminaires for Commercial and Industrial Buildings	17928.19	118.18	151.7	5249	81.59	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Philips Optimum	Philips Optimum	GUL D23 4FT 18L UV 840	High-Bay Luminaires for Commercial and Industrial Buildings	15880	113	140.7	4146	83	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Philips Optimum	Philips Optimum	G10L 4FT 18L UV 840 [OS,OS(DIM)]	High-Bay Luminaires for Commercial and Industrial Buildings	16806	110.5	152.1	4191	83.4	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Philips Optimum	Philips Optimum	G10LNI 4FT 16L UV 840 [OS,OS(DIM)]	High-Bay Luminaires for Commercial and Industrial Buildings	16850.4	127.85	131.8	4018	82.56	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Philips Optimum	Philips Optimum	G10LNI 4FT 12L UV 840 [OS,OS(DIM)]	High-Bay Luminaires for Commercial and Industrial Buildings	13457.4	130.91	102.8	4007	82.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Philips Optimum	Philips Optimum	G21L 4FT 48L UV 835 [OS, OS (DIM)]	High-Bay Luminaires for Commercial and Industrial Buildings	47770.2	112.48	424.7	3653	82.08	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Philips Optimum	Philips Optimum	G21L 4FT 32L UV 835 [OS, OS (DIM)]	High-Bay Luminaires for Commercial and Industrial Buildings	33567.7	121.67	275.9	3633	82	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Philips Optimum	Philips Optimum	G16L 2FT 12L UV 835 [OS,OS(DIM)]	High-Bay Luminaires for Commercial and Industrial Buildings	11090	111.2	99.77	3574	82.4	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Philips Optimum	Philips Optimum	GUL D23HTW 4FT 18L UV 840 [OS,OS(DIM)]	High-Bay Luminaires for Commercial and Industrial Buildings	16833.4	121.1	139	4095	82.8	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Philips Optimum	Philips Optimum	ILXLR CL 8FT 16L UV 840	High-Bay Luminaires for Commercial and Industrial Buildings	16650	129	129.3	3970	83.2	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Philips Optimum	Philips Optimum	OR2 4FT 16L UV 840 [OS,OS(DIM),FSP-211,OSB]	High-Bay Luminaires for Commercial and Industrial Buildings	16403.9	117.67	139.4	4233	81.95	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Philips Optimum	Philips Optimum	G10LNI[P] 4FT 20L UV 840 [OS,OS(DIM)]	High-Bay Luminaires for Commercial and Industrial Buildings	21656.6	129.22	167.6	4156	82.11	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Philips Optimum	Philips Optimum	G16L(P) 4FT 25L UV 835 [OS, OS(DIM), OS(FSP, DIM)]	High-Bay Luminaires for Commercial and Industrial Buildings	23689.4	113.56	208.6	3611	81.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Philips Optimum	Philips Optimum	G10L(P) 4FT 16L UV 835 [OS, OS(DIM), OS(FSP, DIM)]	High-Bay Luminaires for Commercial and Industrial Buildings	15752.2	116.17	135.6	3571	82.38	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Philips Optimum	Philips Optimum	G10LP 4FT 09L UV 840	Low-Bay Luminaires for Commercial and Industrial Buildings	9492	117	80.94	4032	83.3	5			Not Yet Verified	Tier II
Philips Optimum	Philips Optimum	G16L 2FT 08L UV 835 [OS,OS(DIM)]	Low-Bay Luminaires for Commercial and Industrial Buildings	8216	111.7	73.53	3586	82.7	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Philips Optimum	Philips Optimum	ILXLR CL 4FT 08L UV 840	Low-Bay Luminaires for Commercial and Industrial Buildings	8569	123.12	69.6	4020	83.5	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Philips Optimum	Philips Optimum	G10L(P) 4FT 08L UV 835 [OS, OS(DIM), OS(FSP, DIM)]	Low-Bay Luminaires for Commercial and Industrial Buildings	8594.1	132.42	64.9	3529	82.49	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Pinnacle Solutions, LLC	Pinnacle LED Solutions	PL-T8-4FT40K23WDE Clear Lens	2-lamp External driver Lamp-style retrofit kits (UL Type C)	2761	113.2	24.4	4110	86	5			Not Yet Verified	Tier I
Pinnacle Solutions, LLC	Pinnacle LED Solutions	PL-T8-4FT40K23WDE Frosted Lens	2-lamp External driver Lamp-style retrofit kits (UL Type C)	2700	110.7	24.4	4096	86	5			Not Yet Verified	Tier I
Plusrite USA	NaturalLED	LED-FXFDL240/50K/300/xx-yy	Architectural Flood and Spot Luminaires	28835.56	116.47	247.57	4859	80	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Plusrite USA	NaturalLED	LED-FXFDL240/50K/600/xx-yy	Architectural Flood and Spot Luminaires	28977.58	117.36	246.92	4882	82	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Plusrite USA	NaturalLED	LEDFXSB70/5M/50K/480	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	7229	105	68.94	5088	72.5	5			Not Yet Verified	Tier II
POSCOLED Co., LTD	Econuri	PHBCH855W2B10	High-Bay Luminaires for Commercial and Industrial Buildings	11560	128	90.15	2936	82	5			Not Yet Verified	Tier II
PowerSecure, Inc	EnergyLite	74D05503H00-POC	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	3425	108.4	31.61	5097	70.7	5			Not Yet Verified	Tier II
Pozeen LED LTD	POZEEN	RKLT2403HU45KWODL	Low-Bay Luminaires for Commercial and Industrial Buildings	6209.1	134.57	46.14	4312	83.4	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
PreciseLED	PreciseLED	EXCT-45W-30K-XX	Track or Mono-Point Directional Luminaires	4001.37	94.39	42.39	2990	82.5	5			Not Dimmable	Tier I
PreciseLED Inc	PreciseLED	EXCT-25W-30K-WH	Accent Light Line-voltage	2070	79.6	25	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
PreciseLED Inc	PreciseLED	EXCT-36W-30K-WH	Accent Light Line-voltage	2870	78.7	36	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
PreciseLED Inc	PreciseLED	EXCT-8W-30K-BK (3000K, black housing)	Accent Light Line-voltage	600	76	8	3000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
PreciseLED Inc	PreciseLED	EXCT-8W-30K-WH (3000K, white housing)	Accent Light Line-voltage	600	76	8	3000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
PreciseLED Inc	PreciseLED	EXCT-8W-35K-BK (3500K, black housing)	Accent Light Line-voltage	600	76	8	3500K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
PreciseLED Inc	PreciseLED	EXCT-8W-35K-WH (3500K, white housing)	Accent Light Line-voltage	600	76	8	3500K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
PreciseLED Inc	PreciseLED	EXCT-8W-40K-BK (4000K, black housing)	Accent Light Line-voltage	630	76	8	4000/4100K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
PreciseLED Inc	PreciseLED	EXCT-8W-40K-WH (4000K, white housing)	Accent Light Line-voltage	630	76	8	4000/4100K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
PreciseLED Inc	PreciseLED	EXCT-8W-50K-BK (5000K, black housing)	Accent Light Line-voltage	650	76	8	5000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
PreciseLED Inc	PreciseLED	EXCT-8W-50K-WH (5000K, white housing)	Accent Light Line-voltage	650	76	8	5000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Precision Paragon [P2]	Precision Paragon [P2]	QWP-UL-24C-50K-T3-XX-XXX	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	3268	116.63	28.02	4851	66.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Precision Paragon [P2]	Precision Paragon	VPL-1X4-XL-F-UL-50K	Parking Garage Luminaires	3244.77	106	30.71	5052	86	5			Not Yet Verified	Tier II

Manufacturer	Brand	Model Number	LED Type	Light Output (lumens)	Efficacy (lumens per Watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016-17 Tier Level (LEDA)
Precision Paragon [P2]	PRECISION PARAGON [P2]	VPL-1X4-XL-F-UL-40K	Parking Garage Luminaires	3130.73	102	30.59	3994	84	5			Not Yet Verified	Tier II
Precision Paragon [P2]	Precision Paragon [P2]	RLI-1X4-XL-UL-40K-SH	Stairwell and Passageway Luminaires	3168	102.62	30.88	3790	84	5			Not Yet Verified	Tier II
Precision Paragon [P2]	Precision Paragon [P2]	RLI-1X4-XL-DM-UL-35K-[Must Include -DH-SH or SH-SL]	Stairwell and Passageway Luminaires	3184.6	100	31.77	3563	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Prescolite, Inc.	Prescolite	LF4LEDG4xxxxxx-4LFLED5G4zzz/yyyyy	Downlight Recessed	1100	76.3	14.4	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Prescolite, Inc.	Prescolite	LF6LEDG4xxxxxx-6LFLED5G4zzz/yyyyy	Downlight Recessed	1140	78.7	14.5	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Prescolite, Inc.	Prescolite	LF6LEDG4xxxxxx-6LFLED6G4zzz/yyyyy	Downlight Recessed	1157	80.2	14.5	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Prescolite, Inc.	Prescolite	LF6QLEDG4xxxxxx-6SQLED5G4zzz/yyyyy	Downlight Recessed	1140	78.9	14.4	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Prescolite, Inc.	Prescolite	LF8LED8G4xxxxxx-8LFLED8G4zzz/yyyyy	Downlight Recessed	1950	75.6	26.5	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Prescolite, Inc.	Prescolite	LF8LED8G4xxxxxx-8LFLED8G4zzz/yyyyy	Downlight Recessed	1950	75.6	26.5	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Prescolite, Inc.	Prescolite	LF8LEDG4xxxxxx-8LFLED5G4zzz/yyyyy	Downlight Recessed	1170	81	14.4	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Prescolite, Inc.	Prescolite	LF8LEDG4xxxxxx-8LFLED5G4zzz/yyyyy	Downlight Recessed	1170	81	14.4	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Prescolite, Inc.	Prescolite	LF8LEDG4xxxxxx-8LFLED7G4zzz/yyyyy	Downlight Recessed	1950	75.6	26.5	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Prescolite, Inc.	Prescolite	LF8LEDG4xxxxxx-8LFLED7G4zzz/yyyyy	Downlight Recessed	1950	75.6	26.5	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Prescolite, Inc.	Prescolite	RLF6LEDG4xxxxxx-6LFLED5G4zzz/yyyyy	Downlight Recessed	1140	78.7	14.4	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Prescolite, Inc.	Prescolite	LB6LEDA10L27K WH	Downlight Solid State Retrofit	934	77.5	12	2700K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Prescolite, Inc.	Prescolite	LB6LEDA10L30K WH	Downlight Solid State Retrofit	984	80.9	12	3000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Prescolite, Inc.	Prescolite	LB6LEDA10L35K WH	Downlight Solid State Retrofit	1037	88	12	3500K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Prescolite, Inc.	Prescolite	LB6LEDA10LxxKy zz	Downlight Solid State Retrofit	949	78.4	12.1	2700K	90				Continuous Dimming	Tier I (or Tier II with networked controls)
Prescolite, Inc.	Prescolite	LB6LEDA10LxxKy zz	Downlight Solid State Retrofit	1018	87	11.7	3500K	91				Continuous Dimming	Tier I (or Tier II with networked controls)
Progress Lighting	Progress Lighting	P8002-EBwwG4 with P8021-xxx/yyyyzG4	Downlight Recessed	1140	78.7	14.4	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Progress Lighting	Progress Lighting	P8023-EBG4 with P8021-xxx/yyyyG4	Downlight Recessed	1140	78.7	14.4	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Progress Lighting	Progress Lighting	P8064-EBG4 with P8067-xxx/yyyyG4	Downlight Recessed	1100	76.3	14.4	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Progress Lighting	Progress Lighting	P8102-EBwwG4 with P8121-xxx/yyyyzG4	Downlight Recessed	1170	81	14.4	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Progress Lighting	Progress Lighting	P8103-EBG4 with P8121-xxx/yyyyG4	Downlight Recessed	1170	81	14.4	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Progress Lighting	Progress Lighting	P8103-EBG4 with P8133-xxx/yyyyG4	Downlight Recessed	1950	75.6	26.5	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Progress Lighting	Progress Lighting	P8071-28/35K-L10-STR2	Downlight Solid State Retrofit	1037	88	12	3500K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Progress Lighting	Progress Lighting	P8071-28/27K-L10-STR2	Downlight Solid State Retrofit	934	77.5	12	2700K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Progress Lighting	Progress Lighting	P8071-28/30K-L10-STR2	Downlight Solid State Retrofit	984	80.9	12	3000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Progress Lighting	Security Lighting Systems	LB8LEDR-10L35KK9-XX-YY-ZZ	Direct Linear Ambient Luminaires	1153	94.5	12.2	3500K	90				Continuous (Can dim down to ≤ 10% (W))	Tier II
Prudential Lighting	Prudential Lighting	R1-LED4LO-04-SAL-xxx-UNV-xxx-xx-DM10 TR1LF2X9U57K	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	2226.94	116	19.14	3980	84	5			Not Yet Verified	Tier II
QSSI	QSSI	TR1LF2X9U57K	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	1949	104.8	18.6	5899	78	5			Not Yet Verified	Tier II
QSSI	DuraGuard	TR2LF4X9U57K	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	1949	104.8	18.6	5899	78	5			Not Yet Verified	Tier II
QSSI	QSSI	WCSQF1X23USKC*[SF, DF, SP]	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	3743	104.6	35.8	5928	78	5			Not Yet Verified	Tier II
QSSI	QSSI	VN50IG41U5K*	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	2791	101.5	27.495	5224	82.69	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
QSSI	QSSI	VN50IG41U5K*	Parking Garage Luminaires	4576	111.46	41.05	4837	74	5			Not Yet Verified	Tier II
QSSI	DuraGuard	VN50IG41U5K*	Parking Garage Luminaires	4576	111.46	41.05	4837	74	5			Not Yet Verified	Tier II
QSSI	QSSI	VN50IG55U5K*	Parking Garage Luminaires	6142	113.57	54.08	4943	74	5			Not Yet Verified	Tier II
QSSI	DuraGuard	VN50IG55U5K*	Parking Garage Luminaires	6142	113.57	54.08	4943	74	5			Not Yet Verified	Tier II
RAB Design Lighting	RAB Design	RFL1-LED20-B-4K-W-XXX-XXX-DIM	Architectural Flood and Spot Luminaires	2180.631	111.34	19.59	4071	72.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
RAB Design Lighting	RAB Design	RFL2-LED40-B-5K-W-XXX-XXX-DIM	Architectural Flood and Spot Luminaires	4396.5	112.98	38.91	4954	73	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
RAB Design Lighting	RAB Design	RFL4-LED103-B-4K-W-XXX-XXX-DIM	Architectural Flood and Spot Luminaires	11113.3	110.3	100.76	3938	70.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
RAB Design Lighting	RAB DESIGN	LFW-LED50-B-4K-TG	Direct Linear Ambient Luminaires	5350	113.3	47.24	4098	84.69	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
RAB Design Lighting	RAB DESIGN	LFW-LED40-B-4K-TG	Direct Linear Ambient Luminaires	5076	127.4	39.84	4094	82.02	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
RAB Design Lighting	RAB Design	AWL2-LED50-B-4K-XXX-DIM-XXX FFLED39[All Fixture Colors][All Mounting Options]	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	5430.6	109.26	49.7	3976	72.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
RAB Lighting	RAB Lighting	WPLED18[All Fixture Colors]	Architectural Flood and Spot Luminaires	4596	112.1	41	4863	65	5			Not Yet Verified	Tier II
RAB Lighting	RAB Lighting	ALED18[All Fixture Colors]	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	2044	103.2	19.8	4955	66	5			Not Yet Verified	Tier II
RAB Lighting	RAB Lighting	SHARK4-36Y[All Housing Colors]/D10	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	2044	103.2	19.8	4955	66	5			Not Yet Verified	Tier II
RAB Lighting	RAB Lighting	SHARK2-18Y[All Housing Colors]/D10	Stairwell and Passageway Luminaires	4172	112.2	37.24	3098	72	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
RAB Lighting	RAB Lighting	SHARK2-18Y[All Housing Colors]/D10	Stairwell and Passageway Luminaires	2076	108.7	19.1	3061	74	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
RAB Lighting	RAB Lighting	SHARK2-25Y[All Housing Colors]/D10	Stairwell and Passageway Luminaires	2561	100.8	25.431	3074	74	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
RAB Lighting	RAB Lighting	SHARK4-50Y[All Housing Colors]/D10	Stairwell and Passageway Luminaires	5080	105.6	48.075	3104	72	5			Continuous (Can dim down to ≤ 10% (W))	Tier II

Manufacturer	Brand	Model Number	LED Type	Light Output (lumens)	Efficacy (lumens per Watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016-17 Tier Level (LEDA)
RAB Lighting	RAB Lighting	SHARK4-50/[All Housing Colors]/D10	Stairwell and Passageway Luminaires	5161	107.5	48	5153	75	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
RAE ANNSAS LIMITED	LEADER	LD-3030 (3000K)	Track or Mono-Point Directional Luminaires	1217.5	77.55	15.7	3159	82.9	5			Not Dimmable	Tier I
RAE ANNSAS LIMITED	LEADER	LD-3017 (3000K)	Track or Mono-Point Directional Luminaires	2211.9	84.32	26.23	3135	82.1	5			Not Dimmable	Tier I
Raffino	Raffino	LSR4-3300L-40K [120-277V ONLY]	Direct Linear Ambient Luminaires	3349	118.3	28.3	3990	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Raffino	Raffino	LG24-XXXXL-40K-XHD-X-X [120-277V ONLY]	Direct Linear Ambient Luminaires	2088	111.7	18.7	4040	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Raffino	Raffino	LG48-XXXXL-40K-XHD-X-X [120-277V ONLY]	Direct Linear Ambient Luminaires	6486	111.8	58	4060	84	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Raffino	Raffino	LG36-XXXXL-40K-XHD-X-X [120-277V ONLY]	Direct Linear Ambient Luminaires	4210	112.3	37.5	4050	84	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Raffino	Raffino	LG24-XXXXL-40K-XHC-N-X [120-277V ONLY]	Parking Garage Luminaires									Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Raffino	Raffino	LG36-XXXXL-40K-XHC-N-X [120-277V ONLY]	Parking Garage Luminaires	2107.4	112.9	18.66	4040	84	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Raffino	Raffino	LG36-XXXXL-40K-XHC-N-X [120-277V ONLY]	Parking Garage Luminaires	4125	111.22	37.09	3990	84	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Raffino	Raffino	LG48-XXXXL-40K-XHC-X-X [120-277V ONLY]	Parking Garage Luminaires	6538.3	112.34	58.2	4040	84	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Rayon Lighting Group, Inc.	Rayon Lighting	T348LEDB-120-UNI12-30-AM6	Architectural Flood and Spot Luminaires	13950	117.115	119.1	3116	83.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Rayon Lighting Group, Inc.	Rayon Lighting	T348LEDB-120-UNI12-30-SF	Architectural Flood and Spot Luminaires	13950	117.115	119.1	3116	83.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Rayon Lighting Group, Inc.	Rayon Lighting	T348LEDB-120-UNI12-30-YM	Architectural Flood and Spot Luminaires	13950	117.115	119.1	3116	83.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Rayon Lighting Group, Inc.	Rayon Lighting	T349LEDB-211-UNI12-30-SF	Architectural Flood and Spot Luminaires	23642	112.22	210.7	3110	83.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Rayon Lighting Group, Inc.	Rayon Lighting	T349LEDB-211-UNI12-30-YM	Architectural Flood and Spot Luminaires	23642	112.22	210.7	3110	83.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Rayon Lighting Group, Inc.	Rayon Lighting	T349LEDB-211-UNI12-30-AM6	Architectural Flood and Spot Luminaires	23642	112.22	210.7	3110	83.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Rayon Lighting Group, Inc.	Rayon Lighting	T638LEDB-42-UNI12-30	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	4713.8	107.744	43.75	3042	83.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Rayon Lighting Group, Inc.	Rayon Lighting	T218LEDB-23-UNI12-50-DL-X	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	2791	101.5	27.495	5224	82.69	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Rayon Lighting Group, Inc.	Rayon Lighting	T639LEDB-80-UNI12-30	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	8777.4	108.95	80.56	3060	84.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Rayon Lighting Group, Inc.	Rayon Lighting	T348LEDB-120-UNI12-30-AM6	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	13950	117.15	119.1	3116	83.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Rayon Lighting Group, Inc.	Rayon Lighting	T349LEDB-211-UNI12-30-AM6	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	23642	112.22	210.7	3110	83.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
RC Lighting	RC Lighting	FFLED39[All Fixture Colors][All Mounting Options] RCL	Architectural Flood and Spot Luminaires	4596	112.1	41	4863	65	5			Not Yet Verified	Tier II
RC Lighting	RC Lighting	WPLED18[All Fixture Colors] RCL	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	2044	103.2	19.8	4955	66	5			Not Yet Verified	Tier II
RC Lighting	RC Lighting	ALED18[All Fixture Colors] RCL	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	2044	103.2	19.8	4955	66	5			Not Yet Verified	Tier II
RC Lighting	RC Lighting	SHARK2-18Y/[All Housing Colors]/D10 RCL	Stairwell and Passageway Luminaires	2076	108.7	19.1	3061	74	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
RC Lighting	RC Lighting	SHARK2-25Y/[All Housing Colors]/D10 RCL	Stairwell and Passageway Luminaires	2561	100.8	25.431	3074	74	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
RC Lighting	RC Lighting	SHARK4-36Y/[All Housing Colors]/D10 RCL	Stairwell and Passageway Luminaires	4172	112.2	37.24	3098	72	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
RC Lighting	RC Lighting	SHARK4-50Y/[All Housing Colors]/D10 RCL	Stairwell and Passageway Luminaires	5080	105.6	48.075	3104	72	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
RC Lighting	RC Lighting	SHARK4-50/[All Housing Colors]/D10 RCL	Stairwell and Passageway Luminaires	5161	107.5	48	5153	75	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
RDA Lighting Inc.	RDA Lighting	RFL1-LED20-B-4K-W-XXX-XXX-DIM	Architectural Flood and Spot Luminaires	2180.631	111.34	19.59	4071	72.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
RDA Lighting Inc.	RDA Lighting	RFL2-LED40-B-5K-W-XXX-XXX-DIM	Architectural Flood and Spot Luminaires	4396.5	112.98	38.91	4954	73	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
RDA Lighting Inc.	RDA Lighting	RFL4-LED103-B-4K-W-XXX-XXX-DIM	Architectural Flood and Spot Luminaires	11113.3	110.3	100.76	3938	70.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
RDA Lighting Inc.	RDA Lighting	AWL2-LED50-B-4K-XXX-DIM-XXX	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	5430.6	109.26	49.7	3976	72.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
RemPhos Technologies, LLC	RemPhos	RPT-EXTDRVELO-T8-48IN-3000K (Frosted)	2-lamp External driver Lamp-style retrofit kits (UL Type C)	1767	111.1	15.9	2949	82	5			Not Yet Verified	Tier I
RemPhos Technologies, LLC	RemPhos	RPT-EXTDRIVE-T8-48IN-3000K (Frosted)	2-lamp External driver Lamp-style retrofit kits (UL Type C)	1936	115.9	16.7	3061.6	82.6	5			Not Yet Verified	Tier I
Reno LED Lighting	RENO	RENODL-64€™-9€™-11.5W-2700K-R80	Downlight Solid State Retrofit	750	76	11.5 2700K		80				Continuous Dimming	Tier I (or Tier II with networked controls)
Reno LED Lighting	RENO	RENODL-48€™-9€™-11.5W-3000K-R80	Downlight Solid State Retrofit	750	76	11.5 3000K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Reno LED Lighting	RENO	RENODL-64€™-9€™-11.5W-2700K-R80	Downlight Solid State Retrofit	750	81	11.5 2700K		81				Continuous Dimming	Tier I (or Tier II with networked controls)
Reno LED Lighting	RENO	RENODL-64€™-9€™-11.5W-3000K-R80	Downlight Solid State Retrofit	750	81	11.5 3000K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Reno LED Lighting	RENO	RENODL-64€™-9€™-18W-2700K-R80	Downlight Solid State Retrofit	1200	77	18 2700K		81				Continuous Dimming	Tier I (or Tier II with networked controls)
Reno LED Lighting	RENO	RENODL-64€™-9€™-18W-3000K-R80	Downlight Solid State Retrofit	1200	77	18 3000K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
RENOVA Lighting Systems, Inc.	RENOVA	GLT4-MS-L83-UNV-2/48DM-W72-C50-CA-B6CLRBKT01	Parking Garage Luminaires	8369	115.9	72.16	5047	83.7	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Reonac Energy Systems Inc.	Think Green Solutions	LED-THK-TUBE-120-3K34-18W-FE	2-lamp External driver Lamp-style retrofit kits (UL Type C)	1968	110.44	17.82	3033	84	5			Not Yet Verified	Tier I
Reonac Energy Systems Inc.	Think Green Solutions	LED-THK-TUBE-120-3K14-18W-FE	2-lamp External driver Lamp-style retrofit kits (UL Type C)	1976	110.9	17.81	3045	83.8	5			Not Yet Verified	Tier I
Reonac Energy Systems Inc./ Think Green Solutions	THINK	LED-THINK-R5/6E26-90-15W	Downlight Solid State Retrofit	1200	80.9	15 3000K		83				Continuous Dimming	Tier I (or Tier II with networked controls)
Revolight	REVOUGHT	RC-R150[120V ONLY]‡	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	9525	117	81.2	4970	65.1	7			Not Yet Verified	Tier II
Revolight	REVOUGHT	RC-R251[120V ONLY]‡	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	13627	118	121.9	4905	65.2	7			Not Yet Verified	Tier II
RISE-UTE GROUP CO., LTD	RISELUTE	RL-FL-15W-LV-WW	Architectural Flood and Spot Luminaires	1429	100.85	14.17	3032	80.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II

Manufacturer	Brand	Model Number	LED Type	Light Output (Lumens)	Efficacy (lumens per Watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016-17 Tier Level (LEDA)
RISE-LITE GROUP CO., LTD	RISELITE	RL-HB-150W-LV-B-DW	High-Bay Luminares for Commercial and Industrial Buildings Outdoor Pole/Arm-Mounted Area and Roadway Luminares Outdoor Pole/Arm-Mounted Area and Roadway Luminares Downlight Solid State Retrofit	17042	114.68	148.6	5209	71.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
RISE-LITE GROUP CO., LTD	RISELITE	RL-RTK-35W-ST		3806.1	109.42	34.78	5359	69	5			Not Yet Verified	Tier II
RISE-LITE GROUP CO., LTD	RISELITE	RL-RTK-45W-ST		4538.5	103.57	43.82	5379	69.1	5			Not Yet Verified	Tier II
Royal Pacific Ltd.	Royal Pacific	8164H-8165H-23-27		1578	75.6	23	2700K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Royal Pacific Ltd.	Royal Pacific	8164H-8165H-23-30	Downlight Solid State Retrofit	1578	75.6	23	3000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Royal Pacific Ltd.	Royal Pacific	8164H-8165H-23-35	Downlight Solid State Retrofit	1578	75.6	23	3500K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Royal Pacific Ltd.	Royal Pacific	8164H-8165H-23-40	Downlight Solid State Retrofit	1578	75.6	23	4000/4100K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Royal Pacific Ltd.	Royal Pacific	8164H-8165H-23-50	Downlight Solid State Retrofit	1578	75.6	23	5000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Royal Pacific Ltd.	Royal Pacific	8166H-8167H-23-27	Downlight Solid State Retrofit	1578	75.1	23	2700K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Royal Pacific Ltd.	Royal Pacific	8166H-8167H-23-30	Downlight Solid State Retrofit	1578	75.1	23	3000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Royal Pacific Ltd.	Royal Pacific	8166H-8167H-23-35	Downlight Solid State Retrofit	1578	75.1	23	3500K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Royal Pacific Ltd.	Royal Pacific	8166H-8167H-23-40	Downlight Solid State Retrofit	1578	75.1	23	4000/4100K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Royal Pacific Ltd.	Royal Pacific	8166H-8167H-23-50	Downlight Solid State Retrofit	1578	75.1	23	5000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Royal Pacific Ltd.	Royal Pacific	8168H-8169H-23-27	Downlight Solid State Retrofit	1578	88.7	23	2700K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Royal Pacific Ltd.	Royal Pacific	8168H-8169H-23-30	Downlight Solid State Retrofit	1578	88.7	23	3000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Royal Pacific Ltd.	Royal Pacific	8168H-8169H-23-35	Downlight Solid State Retrofit	1578	88.7	23	3500K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Royal Pacific Ltd.	Royal Pacific	8168H-8169H-23-40	Downlight Solid State Retrofit	1578	88.7	23	4000/4100K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Royal Pacific Ltd.	Royal Pacific	8168H-8169H-23-50	Downlight Solid State Retrofit	1578	88.7	23	5000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Royal Pacific Ltd.	Royal Pacific	8168H-8169H-30-27	Downlight Solid State Retrofit	2011	79.2	30	2700K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Royal Pacific Ltd.	Royal Pacific	8168H-8169H-30-30	Downlight Solid State Retrofit	2100	79.2	30	3000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Royal Pacific Ltd.	Royal Pacific	8168H-8169H-30-35	Downlight Solid State Retrofit	2200	79.2	30	3500K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Royal Pacific Ltd.	Royal Pacific	8168H-8169H-30-40	Downlight Solid State Retrofit	2300	79.2	30	4000/4100K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Royal Pacific Ltd.	Royal Pacific	8168H-8169H-30-50	Downlight Solid State Retrofit	2354	79.2	30	5000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
S LITE CO., LTD.	S LITE	FL201AE-XX(3000K)	Architectural Flood and Spot Luminares	5389.5	107.94	49.93	3105	82.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
S LITE CO., LTD.	S LITE	FL202AE-XX(3000K)	Architectural Flood and Spot Luminares	8969.9	118.75	75.54	3081	82.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
S LITE CO., LTD.	S LITE	FL204AE-XX-ID(3000K)	Architectural Flood and Spot Luminares	23642	112.22	210.7	3110	83.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
S LITE CO., LTD.	S LITE	FL203AE-XX-SD(3000K)	Architectural Flood and Spot Luminares	13950	117.115	119.1	3116	83.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
S LITE CO., LTD.	S LITE	WM533AE(3000K)	Outdoor Full-Cutoff Wall-Mounted Area Luminares	4713.8	107.744	43.75	3042	83.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
S LITE CO., LTD.	S LITE	WM433AE(3000K)	Outdoor Full-Cutoff Wall-Mounted Area Luminares	8777.4	108.95	80.56	3060	84.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
S LITE CO., LTD.	S LITE	FL205HL852-[RP, SP, SL]-Y-L(3000K)	Outdoor Pole/Arm-Mounted Area and Roadway Luminares	8254.8	109.78	75.2	3138	74.4	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
S LITE CO., LTD.	S LITE	FL205HL752-[RP, SP, SL]-Y-L(3000K)	Outdoor Pole/Arm-Mounted Area and Roadway Luminares	7670.3	113.2	67.76	3129	74.5	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
S LITE CO., LTD.	S LITE	FL204AE-PM-ID(3000K)	Outdoor Pole/Arm-Mounted Area and Roadway Luminares	23642	112.22	210.7	3110	83.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
S LITE CO., LTD.	S LITE	FL203AE-PM-SD(3000K)	Outdoor Pole/Arm-Mounted Area and Roadway Luminares	13950	117.15	119.1	3116	83.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
S LITE CO., LTD.	S LITE	FL205HL206-[RP, SP, SL]-Y-L(3000K)	Outdoor Pole/Arm-Mounted Area and Roadway Luminares	22873	114.25	200.2	3145	74.6	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
S LITE CO., LTD.	S LITE	FL205HL154-[RP, SP, SL]-Y-L(3000K)	Outdoor Pole/Arm-Mounted Area and Roadway Luminares	16651	114.36	145.6	3143	74.6	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Samjin Lnd Co., Ltd.	SAMJIN	SU135-079SD50LUS	High-Bay Luminares for Commercial and Industrial Buildings	10493.26	129.96	80.74	5293.8	81.4	5			Stepped	Tier II
Samjin Lnd Co., Ltd.	SAMJIN	SU135-079BT50LUS	High-Bay Luminares for Commercial and Industrial Buildings	10383.4	128.54	80.78	5204.5	80.8	5			Stepped	Tier II
Samjin Lnd Co., Ltd.	SAMJIN	SU135-079MS50LUS	High-Bay Luminares for Commercial and Industrial Buildings	10395.87	127.81	81.34	5286.6	81.3	5			Stepped	Tier II
Samjin Lnd Co., Ltd.	SAMJIN	SU135-079OF50LUS	High-Bay Luminares for Commercial and Industrial Buildings	10397.89	127.82	81.35	5285	86	5			Stepped	Tier II
Samjin Lnd Co., Ltd.	Samjin	A2W5A-08430D1US	Low-Bay Luminares for Commercial and Industrial Buildings	9381	112.78	83.18	3227	84	5			Not Yet Verified	Tier II
Samjin Lnd Co., Ltd.	SAMJIN	STR2-100OF50CUS	Outdoor Pole/Arm-Mounted Area and Roadway Luminares	10985.4	112.1	97.97	4923.1	83.8	5			Stepped	Tier II
San Remo Lighting Mfg. Co. Ltd.	Premier Electrical Products	LTR111X/D/30/ES	Downlight Solid State Retrofit	600	76.2	8.2	2700K	87				Continuous Dimming	Tier I (or Tier II with networked controls)
SAN-LED Corporation	SAN-STARR	SS-HS01-200W-5000K-B-DD	High-Bay Luminares for Commercial and Industrial Buildings	24846	114.3	217.3	4886	74.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
SAN-LED Corporation	SAN-STARR	SS-HS01-080W-5000K-B-DD	High-Bay Luminares for Commercial and Industrial Buildings	11963	135.5	88.3	4863	73.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
SAN-LED Corporation	SAN-STARR	SS-AS01-050W-3000K-B-DD	Low-Bay Luminares for Commercial and Industrial Buildings	6218.4	112.8	55.15	2978	72	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
SAN-LED Corporation	SAN-STARR	SS-AS01-040W-3000K-B-DD	Low-Bay Luminares for Commercial and Industrial Buildings	5277.4	118.7	44.46	2974	72	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Sansi Technology Inc.	SANSI	C0820-30-P	Parking Garage Luminares	3253	103.3	31.48	4940	67.2	5			Not Yet Verified	Tier II
Sansi Technology Inc.	SANSI	C21LP-30W-40K-500-N39	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminares	3118	105.7	29.5	4018	72.2	5			Not Yet Verified	Tier II

Manufacturer	Brand	Model Number	LED Type	Light Output (Lumens)	Efficacy (lumens per Watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016-17 Tier Level (LEDA)
Sanwall Lighting Company Ltd.	TERRA	LED-3RF-SMD	Downlight Solid State Retrofit	450	75.5	6	2700K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Sanwall Lighting Company Ltd.	TERRA	LED-3RF-SMD	Downlight Solid State Retrofit	450	75.5	6	3000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Sanwall Lighting Company Ltd.	TERRA	LED-3RF-SMD	Downlight Solid State Retrofit	450	75.5	6	4000/4100K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Sanwall Lighting Company Ltd.	TERRA	LED-4NRF-SMD	Downlight Solid State Retrofit	700	75.4	10	2700K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Sanwall Lighting Company Ltd.	TERRA	LED-4NRF-SMD	Downlight Solid State Retrofit	700	75.4	10	3000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Sanwall Lighting Company Ltd.	TERRA	LED-4NRF-SMD	Downlight Solid State Retrofit	700	75.4	10	4000/4100K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Sarin Energy Inc.	SARIN Energy Inc.	SES-FLSP-4000-25	Architectural Flood and Spot Luminaires	2073.849	101.809	20.37	4026	74.5	5			Not Yet Verified	Tier II
SATCO/NUVO	Satco	S9195	Downlight Solid State Retrofit	550	78.4	8	2700K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
SATCO/NUVO	Satco	S9116	Downlight Solid State Retrofit	650	80.1	9.4	3000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
SATCO/NUVO	Satco	S9116	Downlight Solid State Retrofit	650	80.1	9.4	3000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
SATCO/NUVO	Satco	S9117	Downlight Solid State Retrofit	550	78.4	8	2700K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
SATCO/NUVO	Satco	S9119	Downlight Solid State Retrofit	1200	80.9	15	3000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
SATCO/NUVO	Satco	S9119	Downlight Solid State Retrofit	1200	80.9	15	3000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
SATCO/NUVO	Satco	S9240	Downlight Surface Mount	1300	82.2	18	3000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
SATCO/NUVO	Satco	S9362	Downlight Surface Mount	1300	83.5	18.5	5000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
SATCO/NUVO	Satco	S9363	Downlight Surface Mount	1250	78.2	18.5	5000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Save Energy Lighting Ltd.	PargaDE	SE-IP67-5-25-175-841-3-C-X-Y	Direct Linear Ambient Luminaires	7288	112.6	64.7	4049	81.78	5			Not Yet Verified	Tier II
Save Energy Lighting Ltd.	PargaDE	SE-IP67-4-14-110-841-3-C-X-Y	Direct Linear Ambient Luminaires	5009	111.4	45	4138	81.16	5			Not Yet Verified	Tier II
Save Energy Lighting Ltd.	PargaDE	SE-IP67-4-24-140-841-U-C-X-Y	Direct Linear Ambient Luminaires	5881	113.7	51.72	4132	81.09	5			Not Yet Verified	Tier II
Save Energy Lighting Ltd.	PargaDE	SE-IP67-5-25-175-841-U-C-X-Y	Direct Linear Ambient Luminaires	7371	112.4	65.55	4132	81.08	5			Not Yet Verified	Tier II
Save Energy Lighting Ltd.	PargaDE	SE-IP67-5-25-175-841-3-C-X-Y	Low-Bay Luminaires for Commercial and Industrial Buildings	7288	112.6	64.7	4049	81.78	5			Not Yet Verified	Tier II
Save Energy Lighting Ltd.	PargaDE	SE-IP67-4-14-110-841-3-C-X-Y	Low-Bay Luminaires for Commercial and Industrial Buildings	5009	111.4	45	4138	81.16	5			Not Yet Verified	Tier II
Save Energy Lighting Ltd.	PargaDE	SE-IP67-4-24-140-841-U-C-X-Y	Low-Bay Luminaires for Commercial and Industrial Buildings	5881	113.7	51.72	4132	81.09	5			Not Yet Verified	Tier II
Save Energy Lighting Ltd.	PargaDE	SE-IP67-5-25-175-841-U-C-X-Y	Low-Bay Luminaires for Commercial and Industrial Buildings	7371	112.4	65.55	4132	81.08	5			Not Yet Verified	Tier II
Savenergy Inc.	SavEnergy	SMHL-185OI [Only 120V]	Direct Linear Ambient Luminaires	2042	110.21	18.53	3130	81	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Savenergy Inc.	SavEnergy	SMHL-235OI [Only 120V]	Direct Linear Ambient Luminaires	2503	110.3	22.69	3127	81	5			Not Yet Verified	Tier II
Schreder	SmartLume	SMART1-XX-NW004C2-5174AS-XXXX-V10D01XX-XXXX-XXXX-XX-XXXX-XXXXXXX	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	3860	114.3	33.76	3810	75	10			Continuous (Can dim down to ≤ 10% (W))	Tier II
Schreder	SmartLume	SMART1-XX-NW005C3-5174AS-XXXX-V10D01XX-XXXX-XXXX-XX-XXXX-XXXXXXX	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	5325	107.5	49.54	3849	74.9	10			Continuous (Can dim down to ≤ 10% (W))	Tier II
SCS Lighting Solutions, Inc.	SCS Lighting Solutions, Inc.	SCS-V10048-0120	Low-Bay Luminaires for Commercial and Industrial Buildings	6136.05	121	50.92	4043	85	5			Not Yet Verified	Tier II
Security Lighting Systems	Security Lighting Systems	LB8LEDR-10L35KK9-XX-YY-ZZ	Downlight Solid State Retrofit	1153	94.5	12.2	3500K	90				Continuous Dimming	Tier I (or Tier II with networked controls)
SeeLuce	SKYLER	SLN4F25-4180N-I1	Direct Linear Ambient Luminaires	3001.3	113.9	26.35	3877	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
SeeLuce	SKYLER	SLN4F25-5080N-I1	Direct Linear Ambient Luminaires	2965.51	111.36	26.63	5287.7	86.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
SeeLuce	SKYLER	SLN4F38-5080N-I1	Direct Linear Ambient Luminaires	4393	119.8	36.7	4826	84	5			Not Yet Verified	Tier II
SeeLuce	SKYLER	SLN4F38-4180N-I1	Direct Linear Ambient Luminaires	4176	114.57	36.45	3926	83.2	5			Not Yet Verified	Tier II
Self Electronics Co.,Ltd	Self	ASTRO-30K40X	Track or Mono-Point Directional Luminaires	3942.77	85.24	46.26	3003	82.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier I (or Tier II with networked controls)
Shanghai CHZ Lighting Technology Co.,Ltd	CHZ	CHZ-HB07-40W-ND-5700K-60	Architectural Flood and Spot Luminaires	4134.4	104.2	39.66	5633	72	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Shanghai Sheenly Lighting Co., Ltd.	SHEENLY	SL-BAY-100W-DW-WM-120-G-R2	High-Bay Luminaires for Commercial and Industrial Buildings	11860	122.2	97.06	5005	81.8	5			Continuous (Cannot dim down to < 10% (W))	Tier II
Shanghai Sheenly Lighting Co., Ltd.	SHEENLY	SL-BAY-100W-DW-WM-120-P-R2	High-Bay Luminaires for Commercial and Industrial Buildings	11380	117.4	96.95	4933	81.7	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Sharp Manufacturing Company of America	Sharp	DL-HB9MP7	High-Bay Luminaires for Commercial and Industrial Buildings	30460	122.1	249.5	5618	73.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Sharp Manufacturing Company of America	Sharp	DL-HB5JM4 40WPD50	High-Bay Luminaires for Commercial and Industrial Buildings	22410	110.1	203.5	4989	74.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Shat-R-Shield	Shat-R-Shield	LSA1-US5K3MC4-[PR,P5,P7]-[PC] (700mA)	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	4011	108.12	37.09	5979	85	5			Not Yet Verified	Tier II
Shenzhen Bang-Bell Electronics Co.,Ltd	BBE	BB-FL-120W-C-50	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	3548.32	103.9	34.41	4940	71.8	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Shenzhen Bbier Lighting Co., Ltd	bbier	BB-FL-120W-C-50	Architectural Flood and Spot Luminaires	13412	111.58	120.2	5233	71.1	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Shenzhen Betop Electronics Co,Ltd	Bitco	BT-HL100W-112L(4000K)	High-Bay Luminaires for Commercial and Industrial Buildings	11021.2	118.42	93.07	4033	81.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Shenzhen Betop Electronics Co,Ltd	Bitco	BT-HL150W-168L(4000K)	High-Bay Luminaires for Commercial and Industrial Buildings	17974.2	115.37	155.8	4026	81.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Shenzhen Betop Electronics Co,Ltd	Bitco	BT-HL200W-224L(4000K)	High-Bay Luminaires for Commercial and Industrial Buildings	21186.7	116.86	181.3	4017	81.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Shenzhen Betop Electronics Co,Ltd	Bitco	BT-HL200W-224L(4000K)	High-Bay Luminaires for Commercial and Industrial Buildings	21186.7	116.86	181.3	4017	81.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Shenzhen Betop Electronics Co,Ltd	Bitco	BT-HL240W-280L(4000K)	High-Bay Luminaires for Commercial and Industrial Buildings	25941.1	115.09	225.4	4051	82.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Shenzhen Betop Electronics Co,Ltd	Bitco	BT-HL240W-280L(4000K)	High-Bay Luminaires for Commercial and Industrial Buildings	25941.1	115.09	225.4	4051	82.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
ShenZhen BiaoPin Electronic	Orange Lighting	OL-B30C-09W	Downlight Solid State Retrofit	700	81.8	9	3000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
ShenZhen BiaoPin Electronic	Orange Lighting	OL-B30C-11W	Downlight Solid State Retrofit	820	75.1	11	3000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
ShenZhen BiaoPin Electronic	Orange Lighting	OL-B50C-11W	Downlight Solid State Retrofit	910	83.6	11	3000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)

Manufacturer	Brand	Model Number	LED Type	Light Output (lumens)	Efficacy (lumens per Watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016-17 Tier Level (LEDA)
ShenZhen BiaoPin Electronic	Orange Lighting	OL-B50C-14W	Downlight Solid State Retrofit	1050	78.2	14	3000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
ShenZhen BiaoPin Electronic	Orange Lighting	OL-B50H-14W	Downlight Solid State Retrofit	994	77.2	14	3000K	91				Continuous Dimming	Tier I (or Tier II with networked controls)
SHENZHEN CRESEA TECHNOLOGY CO.LTD	CRESSA	CS-BYD-5-200M-30	High-Bay Luminares for Commercial and Industrial Buildings	24433.295	113.564	215.15	3015	72	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
SHENZHEN CRESEA TECHNOLOGY CO.LTD	CRESSA	CS-BYD-4-160M-30	High-Bay Luminares for Commercial and Industrial Buildings	17830.33	110.71	160.57	3028	72	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
SHENZHEN CRESEA TECHNOLOGY CO.LTD	CRESSA	CS-BYD-3-120M-30	High-Bay Luminares for Commercial and Industrial Buildings	14434.648	112.903	127.88	3008	71.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
SHENZHEN CRESEA TECHNOLOGY CO.LTD	CRESSA	CS-BYD-2-080M-30	High-Bay Luminares for Commercial and Industrial Buildings	10369.091	111.03	93.39	3015	71.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
SHENZHEN CRESEA TECHNOLOGY CO.LTD	CRESSA	CS-SLD-2-080M-30	Outdoor Pole/Arm-Mounted Area and Roadway Luminares	9246.039	111.157	83.18	2995	72.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
SHENZHEN CRESEA TECHNOLOGY CO.LTD	CRESSA	CS-SLD-3-120M-30	Outdoor Pole/Arm-Mounted Area and Roadway Luminares	14099.6	111.003	127.02	2993	72.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
SHENZHEN CRESEA TECHNOLOGY CO.LTD	CRESSA	CS-SLD-4-160M-30	Outdoor Pole/Arm-Mounted Area and Roadway Luminares	19429.707	112.675	172.44	3006	72	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Shenzhen goldsuno opto-electronic technology Co., Ltd.	GOLDSUNO	JXL-TD08-T025W-UL	Downlight Recessed	2000	93.8	25	5000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Shenzhen Green Energy Lighting Co., Ltd.	G	DLXW49-40K	Downlight Solid State Retrofit	680	76.6	9	4000/4100K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Shenzhen Green Energy Lighting Co., Ltd.	G	DLXW414-50K	Downlight Solid State Retrofit	1000	78.2	14	5000K	86				Continuous Dimming	Tier I (or Tier II with networked controls)
Shenzhen Green Energy Lighting Co., Ltd.	G	DLXW49-50K	Downlight Solid State Retrofit	780	88	9	5000K	85				Continuous Dimming	Tier I (or Tier II with networked controls)
Shenzhen Green Energy Lighting Co., Ltd.	G	DLXW614-50K	Downlight Solid State Retrofit	1100	79.1	14	5000K	86				Continuous Dimming	Tier I (or Tier II with networked controls)
Shenzhen Green Energy Lighting Co., Ltd.	G	DLXW618-50K	Downlight Solid State Retrofit	1400	78	18	5000K	85				Continuous Dimming	Tier I (or Tier II with networked controls)
Shenzhen Green Light New Energy Co.,Ltd	Shenzhen Green Light New Energy	GL-FL-100W [5000K, 38° Beam Angle]	Architctural Flood and Spot Luminares	13936.44	123.77	112.6	5032	82.5	5			Not Yet Verified	Tier II
Shenzhen Hipower Optoelectronic Co., Ltd	LED VISION	SP-LB120W-WW	High-Bay Luminares for Commercial and Industrial Buildings	13995	111.93	125	3000	84.3	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Shenzhen Hipower Optoelectronic Co., Ltd	LED VISION	SP-SCL35W-DW	Stairwell and Passageway Luminares	3521.892	102.146	34.479	4973	85.6	5			Stepped	Tier II
Shenzhen Hipower Optoelectronic Co., Ltd	LED VISION	SPC10C-DL4017-1DW-DA-V3	Downlight Recessed	770	78.4	10	5000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Shenzhen Hipower Optoelectronic Co., Ltd	LED VISION	SPC10C-DL4017-1DW-V1	Downlight Recessed	820	84.2	10	5000K	83				Non-Dimmable	Tier I
Shenzhen Hipower Optoelectronic Co., Ltd	LED VISION	SPC10C-DL4017-1NW-DA-V3	Downlight Recessed	760	77.3	10	4000/4100K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Shenzhen Hipower Optoelectronic Co., Ltd	LED VISION	SPC10C-DL4017-1NW-V1	Downlight Recessed	810	82.2	10	4000/4100K	82				Non-Dimmable	Tier I
Shenzhen Hipower Optoelectronic Co., Ltd	LED VISION	SPC30C-DL6019-1DW-DP-V1	Downlight Recessed	2500	89.5	30	5000K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Shenzhen Hipower Optoelectronic Co., Ltd	LED VISION	SPC30C-DL6019-1DW-V1	Downlight Recessed	2600	94.2	30	5000K	83				Non-Dimmable	Tier I
Shenzhen Hipower Optoelectronic Co., Ltd	LED VISION	SPC30C-DL6019-1NW-DP-V1	Downlight Recessed	2400	86.8	30	4000/4100K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Shenzhen Hipower Optoelectronic Co., Ltd	LED VISION	SPC30C-DL6019-1WW-DP-V1	Downlight Recessed	2300	84.6	30	3000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Shenzhen Hipower Optoelectronic Co., Ltd	LED VISION	SPC40C-DL8019-1DW-DP-V1	Downlight Recessed	3500	89.8	40	5000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Shenzhen Hipower Optoelectronic Co., Ltd	LED VISION	SPC40C-DL8019-1DW-V1	Downlight Recessed	3500	91	40	5000K	82				Non-Dimmable	Tier I
Shenzhen Hipower Optoelectronic Co., Ltd	LED VISION	SPC40C-DL8019-1NW-V1	Downlight Recessed	3400	88.4	40	4000/4100K	83				Non-Dimmable	Tier I
Shenzhen Hipower Optoelectronic Co., Ltd	LED VISION	SPC40C-DL8019-1WW-V1	Downlight Recessed	3300	86	40	3000K	83				Non-Dimmable	Tier I
Shenzhen Hipower Optoelectronic Co., Ltd	LED VISION	SPS6-DL5018-24DW-DA-V3	Downlight Recessed	830	84	10	5000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Shenzhen Hipower Optoelectronic Co., Ltd	LED VISION	SPS6-DL5018-24NW-DA-V3	Downlight Recessed	810	82.2	10	4000/4100K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Shenzhen Hipower Optoelectronic Co., Ltd	LED VISION	SPC30C-DL6019-1NW-V1	Downlight Solid State Retrofit	2500	92.1	30	4000/4100K	84				Non-Dimmable	Tier I
Shenzhen Hipower Optoelectronic Co., Ltd	LED VISION	SPC30C-DL6019-1WW-V1	Downlight Solid State Retrofit	2400	87.4	30	3000K	83				Non-Dimmable	Tier I
Shenzhen Hipower Optoelectronic Co., Ltd	LED VISION	SPC40C-DL8019-1NW-DP-V1	Downlight Solid State Retrofit	3400	86	40	4000/4100K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Shenzhen Hipower Optoelectronic Co., Ltd	LED VISION	SPC40C-DL8019-1WW-DP-V1	Downlight Solid State Retrofit	3300	85	40	3000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Shenzhen Hipower Optoelectronic Co., Ltd	LED VISION	SPS6-DL5018-24DW-V1	Downlight Solid State Retrofit	820	83.6	10	5000K	83				Non-Dimmable	Tier I
Shenzhen Hipower Optoelectronic Co., Ltd	LED VISION	SPS6-DL5018-24NW-V1	Downlight Solid State Retrofit	810	82.7	10	4000/4100K	82				Non-Dimmable	Tier I
Shenzhen Lanhe Lighting Co., Ltd	HLE	KDZ-AF-f13J-M11W-2700K	Downlight Solid State Retrofit	880	84.7	11.3	2700K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Shenzhen Lanhe Lighting Co., Ltd	HLE	KDZ-AF-f13J-M11W-2700K	Downlight Solid State Retrofit	880	81.9	11.3	2700K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Shenzhen Lanhe Lighting Co., Ltd	HLE	KDZ-AF-f13J-M13W-2700K	Downlight Solid State Retrofit	1040	81.5	13.4	2700K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Shenzhen Lanhe Lighting Co., Ltd	HLE	KDZ-AF-f13J-M13W-2700K	Downlight Solid State Retrofit	1040	78.4	13.3	2700K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Shenzhen Lanhe Lighting Co., Ltd	HLE	KDZ-AF-f13J-M13WG-2700K	Downlight Solid State Retrofit	910	79.5	13.3	2700K	95				Continuous Dimming	Tier I (or Tier II with networked controls)
Shenzhen Lanhe Lighting Co., Ltd	HLE	KDZ-AF-f13J-M15W-2700K	Downlight Solid State Retrofit	1200	91	15.2	2700K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Shenzhen Lanhe Lighting Co., Ltd	HLE	KDZ-AF-f13J-M15W-2700K	Downlight Solid State Retrofit	1200	87.9	15.2	2700K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Shenzhen Lanhe Lighting Co., Ltd	HLE	KDZ-AF-f13J-M15WG-2700K	Downlight Solid State Retrofit	1050	78.3	15	2700K	94				Continuous Dimming	Tier I (or Tier II with networked controls)
Shenzhen Lanhe Lighting Co., Ltd	HLE	KDZ-AF-f13J-M18W-2700K	Downlight Solid State Retrofit	1440	90.6	18	2700K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Shenzhen Lanhe Lighting Co., Ltd	HLE	KDZ-AF-f13J-M18W-2700K	Downlight Solid State Retrofit	1440	88	18	2700K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Shenzhen Lanhe Lighting Co., Ltd	HLE	KDZ-AF-f13J-M18WG-2700K	Downlight Solid State Retrofit	1260	77.8	18.1	2700K	94				Continuous Dimming	Tier I (or Tier II with networked controls)
Shenzhen Lanhe Lighting Co., Ltd	HLE	KDZ-AF-f13J-M20W-2700K	Downlight Solid State Retrofit	1600	83.3	20	2700K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Shenzhen Lanhe Lighting Co., Ltd	HLE	KDZ-AF-f13J-M20WG-2700K	Downlight Solid State Retrofit	1380	75	20.2	2700K	94				Continuous Dimming	Tier I (or Tier II with networked controls)
Shenzhen Lanhe Lighting Co., Ltd	HLE	KDZ-AF-f13J-M20WG-3000K	Downlight Solid State Retrofit	1380	75	20.2	3000K	94				Continuous Dimming	Tier I (or Tier II with networked controls)
Shenzhen Lanhe Lighting Co., Ltd	HLE	KDZ-AF-f13J-M20WG-4000K	Downlight Solid State Retrofit	1380	75	20.2	4000/4100K	94				Continuous Dimming	Tier I (or Tier II with networked controls)
Shenzhen Lanhe Lighting Co., Ltd	HLE	KDZ-AF-f13J-M20WG-5000K	Downlight Solid State Retrofit	1380	75	20.2	5000K	94				Continuous Dimming	Tier I (or Tier II with networked controls)

Manufacturer	Brand	Model Number	LED Type	Light Output (lumens)	Efficacy (lumens per Watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016-17 Tier Level (LEDA)
Shenzhen Lanhe Lighting Co., Ltd	HLE	KDZ-AF-f13J-M9W-2700K	Downlight Solid State Retrofit	720	86.2	9.4	2700K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Shenzhen Lanhe Lighting Co., Ltd	HLE	KDZ-AF-f13J-M9W-2700K	Downlight Solid State Retrofit	720	84.2	9.4	2700K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Shenzhen Mecree Photoelectric Technology Co., Ltd.	Shenzhen Mecree Photoelectric	GL-FL-100W	Architectural Flood and Spot Luminaires	13936.44	123.77	112.6	5032	82.5	5			Not Yet Verified	Tier II
Shenzhen OKT Lighting Co., Ltd.	OKT Lighting	DD-13D180-# V2	Downlight Solid State Retrofit	980	75.8	13	2700K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Shenzhen OKT Lighting Co., Ltd.	OKT Lighting	R4-11W-XXE	Downlight Solid State Retrofit	885	81.1	11	2700K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Shenzhen OKT Lighting Co., Ltd.	OKT Lighting	R4-9W-XXE	Downlight Solid State Retrofit	685	77	9	2700K	80				Continuous Dimming	Tier I (or Tier II with networked controls)
Shenzhen OKT Lighting Co., Ltd.	OKT Lighting	R6-11W-XXE	Downlight Solid State Retrofit	920	84.1	11	2700K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Shenzhen OKT Lighting Co., Ltd.	OKT Lighting	R6-11W-XXE-277	Downlight Solid State Retrofit	961	89.3	11	3000K	81				Non-Dimmable	Tier I
Shenzhen OKT Lighting Co., Ltd.	OKT Lighting	R6-14W-XXE	Downlight Solid State Retrofit	1130	82.2	14	2700K	80				Continuous Dimming	Tier I (or Tier II with networked controls)
Shenzhen OKT Lighting Co., Ltd.	OKT Lighting	RB4-9W-XXX	Downlight Solid State Retrofit	639	87.6	9	5000K	85				Continuous Dimming	Tier I (or Tier II with networked controls)
Shenzhen OKT Lighting Co., Ltd.	OKT Lighting	RC6-10W-XXH	Downlight Solid State Retrofit	870	88.1	10	2700K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Shenzhen OKT Lighting Co., Ltd.	OKT Lighting	RC6-10W-XXH	Downlight Solid State Retrofit	840	88.2	10	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Shenzhen OKT Lighting Co., Ltd.	OKT Lighting	RC6-10W-XXH	Downlight Solid State Retrofit	870	88.7	10	3500K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Shenzhen OKT Lighting Co., Ltd.	OKT Lighting	RC6-10W-XXH	Downlight Solid State Retrofit	870	89.6	10	4000/4100K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Shenzhen OKT Lighting Co., Ltd.	OKT Lighting	RC6-10W-XXH	Downlight Solid State Retrofit	870	90.2	10	5000K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Shenzhen OKT Lighting Co., Ltd.	OKT Lighting	RE6-10W-SFEE	Downlight Solid State Retrofit	870	90.5	10	5000K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Shenzhen OKT Lighting Co., Ltd.	OKT Lighting	RO6-10W-SFEX	Downlight Solid State Retrofit	900	95.6	10	5000K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Shenzhen OKT Lighting Co., Ltd.	OKT Lighting	C6-14W-XXE-277	Downlight Solid State Retrofit	1299	95.4	14	3000K	81				Non-Dimmable	Tier I
Shenzhen OKT Lighting Co., Ltd.	OKT Lighting	C6-18W-XXE-277	Downlight Solid State Retrofit	1628	92.7	18	3000K	81				Non-Dimmable	Tier I
Shenzhen OKT Lighting Co., Ltd.	OKT Lighting	C6-D18W-XC	Downlight Solid State Retrofit	1438	81.6	18	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Shenzhen OKT Lighting Co., Ltd.	OKT Lighting	C6-D23W-XC	Downlight Solid State Retrofit	1775	78.2	23	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Shenzhen OKT Lighting Co., Ltd.	OKT Lighting	C6-D27W-XC	Downlight Solid State Retrofit	2100	80.8	27	3000K	80				Continuous Dimming	Tier I (or Tier II with networked controls)
Shenzhen OKT Lighting Co., Ltd.	OKT Lighting	C8-D18W-XC	Downlight Solid State Retrofit	1436	80	18	3000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Shenzhen OKT Lighting Co., Ltd.	OKT Lighting	C8-D23W-XC	Downlight Solid State Retrofit	1740	76.4	23	3000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
SHENZHEN PHOETAH OPTOELECTRONIC LIGHTING CO LTD	PHOETAH	DD-6D-12-27	Downlight Solid State Retrofit	880	76.9	12	2700K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Shenzhen Snowball Lighting Limited	Snowball	SBF/A/C/150W/3D/NW	Architectural Flood and Spot Luminaires	16430.1	111	148.01	4113	73.4	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Shenzhen Snowball Lighting Limited	Snowball	SB-HB/G+/150W/3D/NW SB/WP/F/42W/3D/NW	High-Bay Luminaires for Commercial and Industrial Buildings Outdoor Full-Cutoff Wall-Mounted Area Luminaires	18408.03	123.83	148.66	4103	73.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Shenzhen Snowball Lighting Limited	Snowball		High-Bay Luminaires for Commercial and Industrial Buildings	4170.8	101.56	41.07	4051	72.3	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Shenzhen Wisdom Light Co., Ltd	Wisdom Light	WL-HB-100W-CC(4000K)	High-Bay Luminaires for Commercial and Industrial Buildings	11459	113.35	101.1	3963	74.7	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Shenzhen Wisdom Light Co., Ltd	Wisdom Light	WL-HB-150W-CC(4000K) WLWPAC25(5000K)	High-Bay Luminaires for Commercial and Industrial Buildings Outdoor Full-Cutoff Wall-Mounted Area Luminaires	16948	115.58	146.6	3981	75	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Shenzhen Wisdom Light Co., Ltd	Wisdom Light		Outdoor Full-Cutoff Wall-Mounted Area Luminaires	2601.3	101.1	25.73	5108	75.9	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Shenzhen Yaorong Technology Co.,Ltd	YAORONG	YR-ST295H-W030-DX-B(3000K)	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	3322.2	109.59	30.31	2953	73.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Shenzhen Yaorong Technology Co.,Ltd	YAORONG	YR-ST295H-W040-DX-B(3000K)	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	4621.9	120.9	38.23	2955	73.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Shenzhen Yaorong Technology Co.,Ltd	YAORONG	YR-ST295H-W060-DX-B(3000K)	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	6868.9	119.76	57.28	2946	73.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Shenzhen Yaorong Technology Co.,Ltd	YAORONG	YR-ST295H-W120-DX-B(3000K)	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	14794	116.27	127.2	3022	74	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Shenzhen Yaorong Technology Co.,Ltd	YAORONG	YR-ST295H-W090-DX-B(3000K)	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	10641	118.55	89.77	2996	73.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Shenzhen Yaorong Technology Co.,Ltd	YAORONG	YR-ST295H-W075-DX-B(3000K)	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	9291.3	120.67	77.01	2987	73.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Shenzhen Yaorong Technology Co.,Ltd	YAORONG	YR-ST295H-W220-D-B(3000K)	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	25251	111.42	228.3	3014	74.1	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Sigma Luminous	Sigma Luminous	FOCUS-41W-50K-115***	Parking Garage Luminaires	4576	111.46	41.05	4837	74	5			Not Yet Verified	Tier II
Sigma Luminous	Sigma Luminous	FOCUS-58W-50K-115***	Parking Garage Luminaires	6142	113.57	54.08	4943	74	5			Not Yet Verified	Tier II
SIMKAR Corporation	Simkar	MPF5030U1	Architectural Flood and Spot Luminaires	5385.5	107.94	49.93	3105	82.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
SIMKAR Corporation	Simkar	MPF7030U1	Architectural Flood and Spot Luminaires	8969.9	118.75	75.54	3081	82.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
SIMKAR Corporation	Simkar	AFM11530U1	Architectural Flood and Spot Luminaires	13950	117.115	119.1	3116	83.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
SIMKAR Corporation	CHLED	AHLED88635U1XXX	Direct Linear Ambient Luminaires	9379	114	82.33	3459	84	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
SIMKAR Corporation	LCH	LCH8FA4335U1 [No Reflectors] [120V ONLY]	Direct Linear Ambient Luminaires	4076	112	36.35	3488	84.1	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
SIMKAR Corporation	RG2LED	RG2LEDMR25050U1	High-Bay Luminaires for Commercial and Industrial Buildings	27060	113	239.3	5075	82.9	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
SIMKAR Corporation	CHLED	CHLED88635U1XXX	Low-Bay Luminaires for Commercial and Industrial Buildings	9379	114	82.33	3459	84	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
SIMKAR Corporation	Simkar	AFM11530U1-P6AFLM	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	13950	117.15	119.1	3116	83.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
SKC Lighting Co., Ltd.	SKC lighting Co., Ltd.	SLCHB150UX-060VOCO	High-Bay Luminaires for Commercial and Industrial Buildings	17626	113.4	155.5	5383	77.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
SKC Lighting Co., Ltd.	SKC lighting Co., Ltd.	SLCHB150UX-110WWC0	High-Bay Luminaires for Commercial and Industrial Buildings	18401	128.2	143.6	3922	81.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II

Manufacturer	Brand	Model Number	LED Type	Light Output (Lumens)	Efficacy (lumens per Watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016-17 Tier Level (LEDA)
SKC Lighting Co., Ltd.	SKC lighting Co., Ltd.	SLCHB1150UX-110VOCO	High-Bay Luminaires for Commercial and Industrial Buildings	18175	128.6	141.4	5052	84.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
SKC Lighting Co., Ltd.	SKC lighting Co., Ltd.	SLHHB200UX-110VOCO	High-Bay Luminaires for Commercial and Industrial Buildings	28710	144.99	198	5099	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
SKC Lighting Co., Ltd.	SKC lighting Co., Ltd.	SLHHB200UX-060WWCO	High-Bay Luminaires for Commercial and Industrial Buildings	24428	113.99	214.3	4190	74	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
SKC Lighting Co., Ltd.	SKC lighting Co., Ltd.	SLRHB100UX-110VOCO	High-Bay Luminaires for Commercial and Industrial Buildings	11971	123.73	96.8	5076	84.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
SKC Lighting Co., Ltd.	SKC lighting Co., Ltd.	SLCHB100UX-110VOCO	High-Bay Luminaires for Commercial and Industrial Buildings	12003	125.56	95.6	5100	84.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
SKC Lighting Co., Ltd.	SKC lighting Co., Ltd.	SLCHB100UX-110WWCO	High-Bay Luminaires for Commercial and Industrial Buildings	12179	125.1	97.3	3936	81.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
SKC Lighting Co., Ltd.	SKC lighting Co., Ltd.	SLCHB1200UX-060VOCO	High-Bay Luminaires for Commercial and Industrial Buildings	23117	112.3	205.8	5362	77.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
SKC Lighting Co., Ltd.	SKC lighting Co., Ltd.	SLCHB1200UX-020VOCO	High-Bay Luminaires for Commercial and Industrial Buildings	24796	121.4	204.3	5387	75.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
SKC Lighting Co., Ltd.	SKC lighting Co., Ltd.	SLCHB1200UX-020WWCO	High-Bay Luminaires for Commercial and Industrial Buildings	25102	117	214.6	4123	71.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
SKC Lighting Co., Ltd.	SKC lighting Co., Ltd.	SLCHB1200UX-110VOCO	High-Bay Luminaires for Commercial and Industrial Buildings	24471	118.7	206.2	5067	76.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
SKC Lighting Co., Ltd.	SKC Lighting	SLHB120UF-110LLCO	High-Bay Luminaires for Commercial and Industrial Buildings Downlight Recessed	15790.3	131.29	120.3	3052	81	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
SmartRay, Inc.	SmartRay	SR3NNRD825W		2288	93.7	25	5000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
SNC OPTO ELECTRONIC CO LTD.	SNC LED	FL-30W (4000K)	Architctural Flood and Spot Luminaires	3106.9	103.63	30.07	4038	70.8	5				
SNC OPTO ELECTRONIC CO LTD.	SNC LED	SNC-RKPUS-120WD2(4000K)	Retrofit Kits for High-Bay Luminaires for Commercial and Industrial Buildings	16250	124.9	130.1	3996	83.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
SNC OPTO ELECTRONIC CO LTD.	SNC LED	SNC-RKPUS-200WD2 (4000K)	Retrofit Kits for High-Bay Luminaires for Commercial and Industrial Buildings	27078	129.15	210.2	3990	83.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
SNC OPTO ELECTRONIC CO LTD.	SNC LED	SNC-RKPUS-100WD2(4000K)	Retrofit Kits for Outdoor Full-Cutoff Wall-Mounted Area Luminaires	11695	113.96	102.6	3979	83.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
SNC OPTO ELECTRONIC CO LTD.	SNC LED	SNC-RKPUS-60WV2-HV (4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	6851.2	116.39	58.91	3978	83.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
SNC OPTO ELECTRONIC CO LTD.	SNC LED	SNC-RKPUS-80WV2 (4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	9402.5	112.59	83.69	3992	83.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
SNC OPTO ELECTRONIC CO LTD.	SNC LED	SNC-RKPUS-120WD2(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	15057	115.82	130	3998	83.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
SNC OPTO ELECTRONIC CO LTD.	SNC LED	SNC-RKPUS-120WV2(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	14082	113.34	124.2	3990	83.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
SNC OPTO ELECTRONIC CO LTD.	SNC LED	SNC-RKPUS-150WD2(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	18709	123.25	151.8	4007	83.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
SNC OPTO ELECTRONIC CO LTD.	SNC LED	SNC-RKPUS-150WV2(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	18376	119.91	153.2	4003	83.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
SNC OPTO ELECTRONIC CO LTD.	SNC LED	SNC-RKPUS-200WD2 (4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	27078	129.15	210.2	3990	83.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
SNC OPTO ELECTRONIC CO LTD.	SNC LED	SNC-RKPUS-240WD2 (4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	28013	118.15	237.8	4001	83.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
SNC OPTO ELECTRONIC CO LTD.	SNC LED	SNC-RKPUS-300WD2 (4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	35288	116.35	303.8	3995	83.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
SNC OPTO ELECTRONIC CO LTD.	SNC LED	SNC-RKPUS-300WD2-HV (4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	34952	117.21	298.2	3996	83.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
SNC OPTO ELECTRONIC CO LTD.	SNC LED	SNC-RKPUS-400WD2 (4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	47542	113.38	420.5	3996	83.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
SNC OPTO ELECTRONIC CO LTD.	SNC LED	SNC-RKPUS-480WD2 (4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	53085	112.97	470.5	4010	83.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Solas Ray Lighting	Bay Series	BLHB-211-50-PC-U-WT	High-Bay Luminaires for Commercial and Industrial Buildings	27870	110.63	251.92	5244	73.4	5			Not Yet Verified	Tier II
Solas Ray Lighting	Bay Light	BL12-104-50-IN-U-XX	High-Bay Luminaires for Commercial and Industrial Buildings	11760	112.7	104.4	5197	74.7	5			Not Yet Verified	Tier II
SourceOne LED	SOURCEONE LED	S1-RFp-200w-D 4000K	Retrofit Kits for High-Bay Luminaires for Commercial and Industrial Buildings	27078	129.15	210.2	3990	83.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
SourceOne LED	SOURCEONE LED	S1-RFp-60w -HV 4000K	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	6851.2	116.39	58.91	3978	83.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
SourceOne LED	SOURCEONE LED	S1-RFp-80w 4000K	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	9402.5	112.59	83.69	3992	83.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
SourceOne LED	SOURCEONE LED	S1-RFp-120w 4000K	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	14082	113.34	124.2	3990	83.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
SourceOne LED	SOURCEONE LED	S1-RFp-150w 4000K	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	18376	119.91	153.2	4003	83.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
SourceOne LED	SOURCEONE LED	S1-RFp-300w-D 4000K	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	35288	116.35	303.8	3995	83.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
SourceOne LED	SOURCEONE LED	S1-RFp-400w-D 4000K	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	47542	113.38	420.5	3996	83.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Standard Products Inc.	LED HIGH BAY	LPHBG2/4MS/40K/2/DD1/FP/STD	High-Bay Luminaires for Commercial and Industrial Buildings	11197	110.9	101	4023	82.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Standard Products Inc.	STANDARD	64190	Low-Bay Luminaires for Commercial and Industrial Buildings	11806	113.5	104.1	3999	81.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Standard Products Inc.	LED HIGH BAY	LPHBG2/2MS/40K/2/DD1/FP/STD	Downlight Solid State Retrofit	5666	112	50.6	4022	82.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Standard Products, Inc.	Standard	63151	High-Bay Luminaires for Commercial and Industrial Buildings	841	76.2	11	2700K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Stanpro Lighting Systems Inc.	Stanpro	L1FB-LS3-W/50K/XXXX	High-Bay Luminaires for Commercial and Industrial Buildings	24433	122.5	199.4	5004	83.47	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Stanpro Lighting Systems Inc.	Stanpro	L1FB-LS3-H/40K/XXXX	High-Bay Luminaires for Commercial and Industrial Buildings	24368	125.2	194.6	3951	82.15	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Stanpro Lighting Systems Inc.	Stanpro	L1FB-LS2-H/40K/[L10 or KV or OSI or U347]	High-Bay Luminaires for Commercial and Industrial Buildings	17991	120.9	148.75	4069	84.97	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Stanpro Lighting Systems Inc.	Stanpro	FN-LS3-H/35K/XX	High-Bay Luminaires for Commercial and Industrial Buildings	17808	122.7	145.1	3529	82.99	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Stanpro Lighting Systems Inc.	Stanpro	FN-LS3-W/35K/XX [120V ONLY]	High-Bay Luminaires for Commercial and Industrial Buildings	17763	119.2	149.05	3544	83.03	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
StarTek Lighting America	StarTek Lighting America, LLC	SB-N-4-5K-XX	Direct Linear Ambient Luminaires	5117	119	42.92	4978	81.1	5			Not Yet Verified	Tier II
StarTek Lighting America	StarTek Lighting America, LLC	SB-N-8-5K-XX	Direct Linear Ambient Luminaires	8415	132.2	63.65	5033	81.2	5			Not Yet Verified	Tier II
StarTek Lighting America	StarTek Lighting America, LLC	SB-W-4-4K-XX	Direct Linear Ambient Luminaires	7550	117.5	64.16	3918	83.6	5			Not Yet Verified	Tier II
StarTek Lighting America	StarTek Lighting America, LLC	SB-W-4-5K-XX	Direct Linear Ambient Luminaires	8347	130.1	64.15	4984	81.2	5			Not Yet Verified	Tier II
StarTek Lighting America	StarTek Lighting America, LLC	SB-W-8-5K-XX	Direct Linear Ambient Luminaires	13925	143.5	97.03	4964	81.3	5			Not Yet Verified	Tier II

Manufacturer	Brand	Model Number	LED Type	Light Output (Lumens)	Efficacy (lumens per Watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016-17 Tier Level (LEDA)
StarTek Lighting America	StarTek Lighting America, LLC	SP-W-4-40K-XX-XX-XX-XX-AD-U-XX	Direct Linear Ambient Luminaires	7215	115.5	62.63	3899	83.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
StarTek Lighting America	StarTek Lighting America	LST-18HP-D-50K-S-XX-XXX-AD-X-XX	High-Bay Luminaires for Commercial and Industrial Buildings	9660	114.9	84.05	5047	83	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
StarTek Lighting America	StarTek Lighting America	LST-18HP-D-35K-S-XX-XXX-AD-X-XX	High-Bay Luminaires for Commercial and Industrial Buildings	9330	113.6	82.15	3441	83.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
StarTek Lighting America	StarTek Lighting America, LLC	SSP-60-40K-PD-XX-XX-ND-U-XX	Low-Bay Luminaires for Commercial and Industrial Buildings	7392	117.2	63.09	3972	84.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
SteelCraft	SteelCraft	F2402RLED-11B7	Low-Bay Luminaires for Commercial and Industrial Buildings	6124.3	118.57	51.65	4170	83.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
SteelCraft	SteelCraft	F2402RLED-21B3	Parking Garage Luminaires	5602	108.35	51.7	4233	83.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Sun & Stars Lighting, Inc.	Sun & Stars Lighting	SSL-SMRLED-10/30K	Downlight Recessed	738	76.3	10 3000K		93				Continuous Dimming	Tier I (or Tier II with networked controls)
Sun & Stars Lighting, Inc.	Sun & Stars Lighting	SSL-SMRLED-10/40K	Downlight Recessed	807	82.2	10 4000/4100K		94				Continuous Dimming	Tier I (or Tier II with networked controls)
Sun & Stars Lighting, Inc.	Sun & Stars Lighting	SSL-SMRLED-10/50K	Downlight Recessed	861	86.3	10 5000K		93				Continuous Dimming	Tier I (or Tier II with networked controls)
Sun & Stars Lighting, Inc.	Sun & Stars Lighting	SSL-ADRLD-10/30K-6	Downlight Solid State Retrofit	763	91.9	10 3000K		81				Continuous Dimming	Tier I (or Tier II with networked controls)
Sun & Stars Lighting, Inc.	Sun & Stars Lighting	SSL-ADRLD-10/40K-6	Downlight Solid State Retrofit	748	95.1	10 4000/4100K		83				Continuous Dimming	Tier I (or Tier II with networked controls)
Sun & Stars Lighting, Inc.	Sun & Stars Lighting	SSL-ADRLD-10/50K-6	Downlight Solid State Retrofit	803	95.6	10 5000K		84				Continuous Dimming	Tier I (or Tier II with networked controls)
Sun & Stars Lighting, Inc.	Sun & Stars Lighting	SSL-CRLED6-18/XXX	Downlight Solid State Retrofit	1400	80.8	18 3000K		81				Continuous Dimming	Tier I (or Tier II with networked controls)
Sun & Stars Lighting, Inc.	Sun & Stars Lighting	SSL-CRLED6-18/XXX	Downlight Solid State Retrofit	1400	80.8	18 3500K		81				Continuous Dimming	Tier I (or Tier II with networked controls)
Sun & Stars Lighting, Inc.	Sun & Stars Lighting	SSL-CRLED6-18/XXX	Downlight Solid State Retrofit	1400	80.8	18 4000/4100K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Sun & Stars Lighting, Inc.	Sun & Stars Lighting	SSL-CRLED6-18/XXX	Downlight Solid State Retrofit	1400	80.8	18 5000K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Sun & Stars Lighting, Inc.	Sun & Stars Lighting	SSL-CRLED6-27/XXX	Downlight Solid State Retrofit	2200	80.8	27 3000K		80				Continuous Dimming	Tier I (or Tier II with networked controls)
Sun & Stars Lighting, Inc.	Sun & Stars Lighting	SSL-CRLED6-27/XXX	Downlight Solid State Retrofit	2200	80.8	27 3500K		80				Continuous Dimming	Tier I (or Tier II with networked controls)
Sun & Stars Lighting, Inc.	Sun & Stars Lighting	SSL-CRLED6-27/XXX	Downlight Solid State Retrofit	2300	83.3	27 4000/4100K		81				Continuous Dimming	Tier I (or Tier II with networked controls)
Sun & Stars Lighting, Inc.	Sun & Stars Lighting	SSL-CRLED6-27/XXX	Downlight Solid State Retrofit	2300	83.3	27 5000K		81				Continuous Dimming	Tier I (or Tier II with networked controls)
Sun & Stars Lighting, Inc.	Sun & Stars Lighting	SSL-CRLED8-18/XXX	Downlight Solid State Retrofit	1400	80	18 3000K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Sun & Stars Lighting, Inc.	Sun & Stars Lighting	SSL-CRLED8-18/XXX	Downlight Solid State Retrofit	1400	80	18 3500K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Sun & Stars Lighting, Inc.	Sun & Stars Lighting	SSL-CRLED8-18/XXX	Downlight Solid State Retrofit	1470	81.6	18 4000/4100K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Sun & Stars Lighting, Inc.	Sun & Stars Lighting	SSL-CRLED8-18/XXX	Downlight Solid State Retrofit	1470	81.6	18 5000K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Sun & Stars Lighting, Inc.	Sun & Stars Lighting	SSL-CRLED8-27/XXX	Downlight Solid State Retrofit	2000	75.7	28 4000/4100K		81				Continuous Dimming	Tier I (or Tier II with networked controls)
Sun & Stars Lighting, Inc.	Sun & Stars Lighting	SSL-CRLED8-27/XXX	Downlight Solid State Retrofit	2100	75.7	28 5000K		81				Continuous Dimming	Tier I (or Tier II with networked controls)
Sun & Stars Lighting, Inc.	Sun & Stars Lighting	SSL-CRLED8-40/XXX	Downlight Solid State Retrofit	3000	76.7	40 4000/4100K		81				Continuous Dimming	Tier I (or Tier II with networked controls)
Sun & Stars Lighting, Inc.	Sun & Stars Lighting	SSL-CRLED8-40/XXX	Downlight Solid State Retrofit	3000	76.7	40 5000K		81				Continuous Dimming	Tier I (or Tier II with networked controls)
Sun & Stars Lighting, Inc.	Sun & Stars Lighting, Inc.	SSL-UNVRLED-18/30K	Downlight Solid State Retrofit	1628	93.5	17.7 2700K		81				Non-Dimmable	Tier I
Sun & Stars Lighting, Inc.	Sun & Stars Lighting	SSL-UNVRLED-18/40K	Downlight Solid State Retrofit	1863	105.7	17.7 4000/4100K		81				Non-Dimmable	Tier I
Sun & Stars Lighting, Inc.	Sun & Stars Lighting	SSL-WRLED-12/30K	Downlight Solid State Retrofit	900	79.3	12 3000K		81				Continuous Dimming	Tier I (or Tier II with networked controls)
Sun & Stars Lighting, Inc.	Sun & Stars Lighting	SSL-WRLED-12/50K	Downlight Solid State Retrofit	900	79.3	12 5000K		81				Continuous Dimming	Tier I (or Tier II with networked controls)
Sun & Stars Lighting, Inc.	Sun & Stars Lighting	SSL-WRLED-19/30K	Downlight Solid State Retrofit	1300	79.9	19 3000K		81				Continuous Dimming	Tier I (or Tier II with networked controls)
Sun & Stars Lighting, Inc.	Sun & Stars Lighting	SSL-WRLED-19/50K	Downlight Solid State Retrofit	1300	79.9	19 5000K		81				Continuous Dimming	Tier I (or Tier II with networked controls)
Sunco Lighting	Sunco Lighting	SC13W563K90B	Downlight Solid State Retrofit	800	75.8	13 3000K		93				Continuous Dimming	Tier I (or Tier II with networked controls)
Sunco Lighting	Sunco Lighting	SC13W564K90B	Downlight Solid State Retrofit	830	75.8	13 3000K		93				Continuous Dimming	Tier I (or Tier II with networked controls)
Sunco Lighting	Sunco Lighting	SC13W565K90B	Downlight Solid State Retrofit	830	75.8	13 5000K		93				Continuous Dimming	Tier I (or Tier II with networked controls)
Sunco Lighting	Sunco Lighting	SUN-9W-3K-A	Downlight Solid State Retrofit	629	80.1	9 3000K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Sunshine Lighting	Sunlite	89067-SU	Downlight Solid State Retrofit	1200	76	18 3000K		81				Continuous Dimming	Tier I (or Tier II with networked controls)
Sunshine Lighting	Sunlite	89120-SU	Downlight Solid State Retrofit	750	76	11.5 3000K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Sunshine Lighting	Sunlite	89122-SU	Downlight Solid State Retrofit	750	76	11.5 4000/4100K		85				Continuous Dimming	Tier I (or Tier II with networked controls)
Sunshine Lighting	Sunlite	89125-SU	Downlight Solid State Retrofit	1200	77	18 4000/4100K		85				Continuous Dimming	Tier I (or Tier II with networked controls)
Sunshine Lighting	Sunlite	04692-SU	Downlight Surface Mount	3600	87	48 4000/4100K		85				Non-Dimmable	Tier I
Super Bright LEDs, Inc.	superbrightleds.com	DL6D-X13W	Downlight Solid State Retrofit	980	75.8	13 2700K		81				Continuous Dimming	Tier I (or Tier II with networked controls)
Tai Kwan Technology CO., LIMITED	Tai Kwan	TKT-HB-090M	High-Bay Luminaires for Commercial and Industrial Buildings	11607	128.47	90.35	5606	70.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Tai Kwan Technology CO., LIMITED	Tai Kwan	TKT-HB-130M	High-Bay Luminaires for Commercial and Industrial Buildings	17169	130.86	131.2	5590	70.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Tai Kwan Technology CO., LIMITED	Tai Kwan	TKT-HB-180M	High-Bay Luminaires for Commercial and Industrial Buildings	25626	143.78	178.2	5615	71.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Tai Kwan Technology CO., LIMITED	Tai Kwan	TKT-HB-110M	High-Bay Luminaires for Commercial and Industrial Buildings	14081	128.48	109.6	5642	70.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Tai Kwan Technology CO., LIMITED	Tai Kwan	TKT-HB-160M	High-Bay Luminaires for Commercial and Industrial Buildings	22472	138.63	162.1	5612	71.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II

Manufacturer	Brand	Model Number	LED Type	Light Output (Lumens)	Efficacy (lumens per Watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016-17 Tier Level (LEDA)
Tai Kwan Technology CO., LIMITED	Tai Kwan	TKT-HB-200M	High-Bay Luminaires for Commercial and Industrial Buildings	26253	131.59	199.5	5629	71.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Tai Kwan Technology CO., LIMITED	Tai Kwan	TKT-HB-240M	High-Bay Luminaires for Commercial and Industrial Buildings	31441	131.17	239.7	5617	71.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Taizhou JiaoGuang Lighting Co. Ltd.	LIGHT THE FUTURE	L401[L or LC]-25W-57K-T5-10-XX-M	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	2909.2	115.03	25.29	5320	69.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Taizhou JiaoGuang Lighting Co. Ltd.	LIGHT THE FUTURE	L401[L or LC]-25W-40K-T5-10-XX-M	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	2823.6	109.4	25.81	3935	80.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Taizhou JiaoGuang Lighting Co. Ltd.	LIGHT THE FUTURE	L402[L or LC]-80W-40K-T5-10-XX-M	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	8950	109.03	82.09	3978	78	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Taizhou JiaoGuang Lighting Co. Ltd.	LIGHT THE FUTURE	L401[L or LC]-40W-57K-T3-10-XX-M	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	5028.7	122.09	41.19	5381	70.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Taizhou JiaoGuang Lighting Co. Ltd.	LIGHT THE FUTURE	L401[L or LC]-40W-40K-T3-10-XX-M	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	4706.3	114.01	41.28	3710	77.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Taizhou JiaoGuang Lighting Co. Ltd.	LIGHT THE FUTURE	L403HX-120W-40K-T2-10-XX-M	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	13058	115.5	113.1	3873	78.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Taizhou JiaoGuang Lighting Co. Ltd.	LIGHT THE FUTURE	L403HX-120W-57K-T2-10-XX-M	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	13694.5	122.8	111.51	5322	71.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Taizhou JiaoGuang Lighting Co. Ltd.	LIGHT THE FUTURE	L403HX-180W-57K-T5-10-XX-I	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	20359.6	118.6	171.6	5469	75.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Taizhou JiaoGuang Lighting Co. Ltd.	LIGHT THE FUTURE	L403HX-180W-40K-T5-10-XX-I	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	18895.3	110	171.7	4048	83	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Taizhou JiaoGuang Lighting Co. Ltd.	LIGHT THE FUTURE	L403[L or LC]-120W-40K-T2-10-X-M	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	13168.5	117.6	111.94	3954	81.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Taizhou JiaoGuang Lighting Co. Ltd.	LIGHT THE FUTURE	L404[L or LC]-150W-40K-T2-10-X-M	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	16984	115.4	147.24	3822	78.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Taizhou JiaoGuang Lighting Co. Ltd.	LIGHT THE FUTURE	D105-4	Downlight Recessed	684	75.1	9	3000K	83				Non-Dimmable	Tier I
Taizhou JiaoGuang Lighting Co. Ltd.	LIGHT THE FUTURE	D106-6	Downlight Recessed	1200	79.9	15	3000K	83				Non-Dimmable	Tier I
Taizhou JiaoGuang Lighting Co. Ltd.	LIGHT THE FUTURE	D106-6X	Downlight Recessed	1100	75.2	15	2700K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Taizhou JiaoGuang Lighting Co. Ltd.	LIGHT THE FUTURE	D604	Downlight Solid State Retrofit	800	78	9.2	5000K	82				Non-Dimmable	Tier I
Taizhou JiaoGuang Lighting Co. Ltd.	LIGHT THE FUTURE	D616	Downlight Solid State Retrofit	1100	78.5	14.8	2700K	82				Non-Dimmable	Tier I
Taizhou JiaoGuang Lighting Co. Ltd.	LIGHT THE FUTURE	D616	Downlight Solid State Retrofit	1150	78.5	14.8	3000K	82				Non-Dimmable	Tier I
Taizhou JiaoGuang Lighting Co. Ltd.	LIGHT THE FUTURE	D616	Downlight Solid State Retrofit	1200	78.5	14.8	4000/4100K	82				Non-Dimmable	Tier I
Taizhou JiaoGuang Lighting Co. Ltd.	LIGHT THE FUTURE	D616	Downlight Solid State Retrofit	1300	78.5	14.8	5000K	82				Non-Dimmable	Tier I
Taizhou JiaoGuang Lighting Co. Ltd.	LIGHT THE FUTURE	D110	Downlight Solid State Retrofit	760	82.8	10	2700K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Taizhou JiaoGuang Lighting Co. Ltd.	LIGHT THE FUTURE	D110	Downlight Solid State Retrofit	760	82.8	10	3000K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Taizhou JiaoGuang Lighting Co. Ltd.	LIGHT THE FUTURE	D110	Downlight Solid State Retrofit	760	82.8	10	4000/4100K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Taizhou JiaoGuang Lighting Co. Ltd.	LIGHT THE FUTURE	D110	Downlight Solid State Retrofit	760	82.8	10	5000K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Taizhou JiaoGuang Lighting Co. Ltd.	LIGHT THE FUTURE	D406-80	Downlight Solid State Retrofit	650	75.8	10	2700K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Taizhou JiaoGuang Lighting Co. Ltd.	LIGHT THE FUTURE	D406-80	Downlight Solid State Retrofit	700	75.8	10	3000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Taizhou JiaoGuang Lighting Co. Ltd.	LIGHT THE FUTURE	D406-80	Downlight Solid State Retrofit	750	75.8	10	4000/4100K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Taizhou JiaoGuang Lighting Co. Ltd.	LIGHT THE FUTURE	D406-80	Downlight Surface Mount	800	75.8	10	5000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Tamilite Lighting	Tamilte Lighting	WLSLED4-6600D1L850-XX	Direct Linear Ambient Luminaires	6584	133.5	49.31	5155	82.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Tamilite Lighting	Tamilte Lighting	CTNLED4-4400D1S2L830-XX	Direct Linear Ambient Luminaires	3654	118.7	30.79	3163	84.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Tamilite Lighting	Tamilte Lighting	CTNLED4-6600D1L850-XX	Direct Linear Ambient Luminaires	6328	128.2	49.37	5238	83.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Tamilite Lighting	Tamilte Lighting	HOALED6-32400D3L850-xxx	High-Bay Luminaires for Commercial and Industrial Buildings	29090	115.7	251.5	5439	83.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Tamilite Lighting USA	Deluce lighting	DRFG4	Downlight Solid State Retrofit	600	76.2	8.2	2700K	87				Continuous Dimming	Tier I (or Tier II with networked controls)
Tamilite Lighting USA	Deluce lighting	DRFG56-3	Downlight Solid State Retrofit	974	79	12	3000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Tamilite Lighting USA	Tamilte	RFK4-3	Downlight Solid State Retrofit	760	77	10	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Tamilite Lighting USA	Tamilte	RFK4-4	Downlight Solid State Retrofit	750	77	10	4000/4100K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
TechBrite LLC	TechBrite	T442SS1B35HXXXX	Direct Linear Ambient Luminaires	5129	116	44.9	3449	82.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
TechBrite LLC	TechBrite	T844SS1B35HXXXX	Direct Linear Ambient Luminaires	11420	125	91.39	3465	82	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
TechBrite LLC	TechBrite	T241SS1B35NXXXX	Direct Linear Ambient Luminaires	3337	111.18	30.1	3468	82	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
TechBrite LLC	TechBrite	T241SS1B35HXXXX	Direct Linear Ambient Luminaires	4951	111.9	43.85	3547	84.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
TechBrite LLC	Techbrite	N432SS1B3CA00XX	Direct Linear Ambient Luminaires	3010	111.5	27	3514	85.2	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
TechBrite LLC	VaporBrite	VH48SS1B50CX0XX	High-Bay Luminaires for Commercial and Industrial Buildings	14210	119.6	118.8	5075	83.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
TechBrite LLC	VaporBrite	VH48SS1B30AX0XX	High-Bay Luminaires for Commercial and Industrial Buildings	9275	110.7	83.78	3554	85	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
TechBrite LLC	Vaporbrite	VH48SS1B30DXXXX	High-Bay Luminaires for Commercial and Industrial Buildings	14370	122	130.1	3464	82.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
TechBrite LLC	Techbrite	VH48SS1B30GX0XX	High-Bay Luminaires for Commercial and Industrial Buildings	21160	119	178.1	3464	82.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
TechBrite LLC	Techbrite	VH48SS2B50GX0XX	High-Bay Luminaires for Commercial and Industrial Buildings	22750	128	178.4	5084	83.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
TechBrite LLC	BayBrite Hi-Bay	B4148SS1B3H00XX	High-Bay Luminaires for Commercial and Industrial Buildings	22200	126.5	175.5	3551	84.6	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
TechBrite LLC	BayBrite Hi-Bay	B4146SS1B3N00XX	High-Bay Luminaires for Commercial and Industrial Buildings	17780	129	137.7	3548	84.6	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
TechBrite LLC	TechBrite	V474SS1GT4N0000	Low-Bay Luminaires for Commercial and Industrial Buildings	6124.3	118.57	51.65	4170	83.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
TechBrite LLC	TechBrite	V474SS1PG4N0000	Parking Garage Luminaires	5602	108.35	51.7	4233	83.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
TechBrite LLC	TechBrite	TB-SCL035W27-50K	Stairwell and Passageway Luminaires	3521.892	102.146	34.479	4973	85.6	5			Stepped	Tier II

Manufacturer	Brand	Model Number	LED Type	Light Output (lumens)	Efficacy (lumens per Watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016-17 Tier Level (LEDA)
TECHLIGHT	FUSION - DIECAST WALL PACK	LHMWP-1-C-8-T3-F-X-XX-XX	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	7750	106.9	72.5	5500	70	5			Not Yet Verified	Tier II
TECHLIGHT	Saber	LSB-X-1-C-2-T5W-C-X-XX-XX	Parking Garage Luminaires	2710	100.4	27	5490	72	5			Not Yet Verified	Tier II
Technical Consumer Products	TCP	TCPLB4UNI850KYYYXXXXUUU	Low-Bay Luminaires for Commercial and Industrial Buildings	9766	112.1	87.1	5080	83	5			Not Yet Verified	Tier II
TECNON (FUJIAN) COMMERCIAL LIGHTING CO.,LTD	TECNON	TN-135-27K[0001,0002,0003]	Track or Mono-Point Directional Luminaires	1625.7	80.64	21.05	2785	83.1	5			Not Dimmable	Tier I
Texas Fluorescents	Texas Fluorescents	C48LF28W3200LDMV30K	Direct Linear Ambient Luminaires	3332	124.8	26.7	3100	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Texas Fluorescents	Texas Fluorescents	HBC48LH18W13500LW30DMV50K	High-Bay Luminaires for Commercial and Industrial Buildings	13507	114	118.47	5136	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Texas Fluorescents	Texas Fluorescents	HBC48LF97W11900LW30DMV40K	High-Bay Luminaires for Commercial and Industrial Buildings	12640	117	108	4160	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Texas Solar Resources, Inc.	Texas Solar Resources	GC-072-60W (3000K)	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	7225.66	117.62	61.52	3202	69.7	5			Not Yet Verified	Tier II
TGITON GOLD INC	TGITON GOLD	TGH2FTL110W XDZ 4000K	High-Bay Luminaires for Commercial and Industrial Buildings	12282	115.2	106.6	4092	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
TGITON GOLD INC	TGITON GOLD	TGH2FTL160W XDZ 4000K	High-Bay Luminaires for Commercial and Industrial Buildings	18520	116.7	158.7	4121	84.25	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
TGITON GOLD INC	TGITON GOLD	TGH4FTL220W XDZ 4000K	High-Bay Luminaires for Commercial and Industrial Buildings	25161	117.1	214.9	4197	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
TGITON GOLD INC	TGITON GOLD	TGH4FTL320W XDZ 4000K	High-Bay Luminaires for Commercial and Industrial Buildings	37301	116.8	319.2	4189	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
The Awaken Company	Awaken LumiPath	QX8HO-2M150H-T450CL	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	15810	113.41	139.4	5139	75.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
The Awaken Company	QX8HO	QX8HO-6M480U-T450CL	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	50680	110	460.8	5041	74.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
The Home Depot	Commercial Electric	CE-JB4-600L-27K-E26-2	Downlight Recessed	600	77.1	9	2700K	92				Continuous Dimming	Tier I (or Tier II with networked controls)
The Home Depot	Commercial Electric	CER6730DY50	Downlight Solid State Retrofit	770	75.7	11	5000K	93				Continuous Dimming	Tier I (or Tier II with networked controls)
The Light Edge Inc.	Blackhawk	BLKA-HO-4-200-XX-MVD-LA-D	High-Bay Luminaires for Commercial and Industrial Buildings	20746	110.8	187.3	4086	85	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
TIANJIN TALANG TECHNOLOGY CO.,LTD	TIANJIN TALANG	TL-FGK-100W	High-Bay Luminaires for Commercial and Industrial Buildings	10485.51	113.14	92.68	5924	73.2	5			Not Yet Verified	Tier II
Titan LED, Inc.	Titan LED	33BR-3P-84-7-80	High-Bay Luminaires for Commercial and Industrial Buildings	20068.36	111	181.56	5910	78	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Topaz Lighting	NEXTWAVE	RTL/6X7/Y/Y	Downlight Solid State Retrofit	974	79	12	3000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Topaz Lighting Corp.	Topaz	F-LED-4-36W-40-D-68	Direct Linear Ambient Luminaires	4393	119.8	36.7	4826	84	5			Not Yet Verified	Tier II
Topaz Lighting Corp.	Topaz	F-LED-4-36W-50-D-68	Direct Linear Ambient Luminaires	4176	114.57	36.45	3926	83.2	5			Not Yet Verified	Tier II
Torchstar Corporation	TORCHSTAR	RO6-10W-2FHX	Downlight Solid State Retrofit	900	92.1	10	2700K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Torchstar Corporation	TORCHSTAR	RO6-10W-5FEX	Downlight Solid State Retrofit	900	95.6	10	5000K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Torchstar Corporation	TORCHSTAR	TOR- DL6D-18W-27	Downlight Solid State Retrofit	1200	79.1	18	2700K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Torchstar Corporation	TORCHSTAR	TOR-DL6D-18W-50	Downlight Solid State Retrofit	1200	79.1	18	5000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Torchstar Corporation	TORCHSTAR	TOR-L4-DL4DWP-12W-2700	Downlight Solid State Retrofit	850	79.3	12	2700K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Torchstar Corporation	TORCHSTAR	TOR-L4-DL6DWP-18W-50	Downlight Solid State Retrofit	1200	79.1	18	5000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Torchstar Corporation	TORCHSTAR	TOR-L4-DL6DWP-19W-50	Downlight Solid State Retrofit	1200	79.9	19	5000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Toshiba	Toshiba	TLSRTL523451SN	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	2751	101.1	27.2	3793	76	5			Not Yet Verified	Tier II
Triworks Inc.	Triworks	SMHL-18S0I	Direct Linear Ambient Luminaires	2042	110.21	18.53	3130	81	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
TW LIGHTING INC	TW LIGHTING INC	MS024-WT40K-WA	Stairwell and Passageway Luminaires	2738.6	106.56	25.7	3996	83	5			Stepped	Tier II
TW LIGHTING INC	TW LIGHTING INC	MS036-WT40K-WA	Stairwell and Passageway Luminaires	3326.351	110.14	30.2	4000	83.3	5			Stepped	Tier II
TW LIGHTING INC	TW LIGHTING INC	MS048-WT40K-WA	Stairwell and Passageway Luminaires	4604.37	112.03	41.1	3952	81.8	5			Stepped	Tier II
Twice The Light, Inc / DBA ENVLED	ENVLED	ENV-138-LHB-UNV	High-Bay Luminaires for Commercial and Industrial Buildings	18908.76	139.24	135.8	5556	71.6	5			Not Yet Verified	Tier II
Twice The Light, Inc / DBA ENVLED	ENVLED	ENV-180-LHB-[120V ONLY]	High-Bay Luminaires for Commercial and Industrial Buildings	24464.73	127.69	191.6	5610	71.4	5			Not Yet Verified	Tier II
Twice The Light, Inc / DBA ENVLED	ENVLED	ENV-70W-LED-LWPCO-PS-UNV-[ALL OPTIONS EXCEPT -GS, -WG, -VS, -BF]	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	7142	109.5	65.2	5450	72.5	5			Not Yet Verified	Tier II
Twice The Light, Inc / DBA ENVLED	ENVLED	ENV-45W-LED-LWPCO-PS-UNV-[ALL OPTIONS EXCEPT -GS, -WG, -VS, -BF]	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	5616	113.9	49.3	5370	72.5	5			Not Yet Verified	Tier II
Twice The Light, Inc / DBA ENVLED	ENVLED	ENV-180W-LED-23LFL-PS-UNV-[ALL OPTIONS EXCEPT -GS, -WG, -VS, -BF]	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	19871	114.2	174	5818	74.5	5			Not Yet Verified	Tier II
Twice The Light, Inc / DBA ENVLED	ENVLED	ENV-90-LED-LFL-PS-120-[ALL OPTIONS EXCEPT GS,WG,VS, BF]	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	10234.49	116.25	88.04	5326	71.5	5			Not Yet Verified	Tier II
Twice The Light, Inc / DBA ENVLED	ENVLED	ENV-45W-LED-GARAGE-PS-UNV	Parking Garage Luminaires	4907	101	48.6	5418	73.8	5			Not Yet Verified	Tier II
Ultron Industries Corp.	Ultron	U-ARALS-35-30	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	4331.2	122.9	35.23	2969	71.8	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Ultron Industries Corp.	Ultron	U-ARALS-50-30	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	6204.6	125.8	49.34	2978	72.3	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Ultron Industries Corp.	Ultron	U-ARALS-80-30	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	9904.9	128.9	76.87	2980	72.3	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Ultron Industries Corp.	Ultron	U-ARALS-100-30	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	11414.2	132.3	86.25	2978	72.3	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Ultron Industries Corp.	Ultron	U-ARALS-120-30	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	14579.8	130.4	111.83	2987	72.3	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Ultron Industries Corp.	Ultron	U-ARALS-150-30	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	17742	128.4	138.19	2989	72.1	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Uninex	K-LITE	KLLDLF-612WP	Downlight Solid State Retrofit	800	78.4	12	2700K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
UNITED CANADA INC.	UC	UCLA21115WE	Downlight Solid State Retrofit	750	76	11.5	3000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
UNITED CANADA INC.	UC	UCLA2118WE	Downlight Solid State Retrofit	1200	77	18	3000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Unity Opto Technology Co., Ltd.	UNI	MPS-PL506240-601	Architectural Flood and Spot Luminaires	28835.56	116.47	247.57	4859	80	5			Continuous (Can dim down to ≤ 10% (W))	Tier II

Manufacturer	Brand	Model Number	LED Type	Light Output (lumens)	Efficacy (lumens per Watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016-17 Tier Level (LEDA)
Unity Opto Technology Co., Ltd.	UNI	MPS-PL506240-602	Architectural Flood and Spot Luminaires	28977.58	117.36	246.92	4882	82	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Unity Opto Technology Co., Ltd.	UNI	MPS-PL506240-604	Architectural Flood and Spot Luminaires	28933.21	113.52	254.88	5088	82	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Universal Lighting Technologies	Everline	VTL4-16K850-U	High-Bay Luminaires for Commercial and Industrial Buildings	20630	121	169.9	5046	82.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Universal Lighting Technologies	Everline	VTL4-6K840-U	Low-Bay Luminaires for Commercial and Industrial Buildings	7182	120.87	59.418	4046.7	82.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Universal Lighting Technologies	Everline	VTL4-6K835-U	Low-Bay Luminaires for Commercial and Industrial Buildings	6498	110.1	58.1	3488	81.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Universal Lighting Technologies	Everline	VTL4-5K840-U	Low-Bay Luminaires for Commercial and Industrial Buildings	6099	120.4	50.65	3966	83.22	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Universal Lighting Technologies	Everline	VTL4-8K840-U	Low-Bay Luminaires for Commercial and Industrial Buildings	9739.45	114.58	83.34	4060.8	82.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Universal Lighting Technologies	Everline	VTL4-5K835-U	Low-Bay Luminaires for Commercial and Industrial Buildings	5594.44	111.91	49.99	3499	81.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Universal Lighting Technologies	Everline	PG-44L750-U-T5W-XX-XX	Parking Garage Luminaires	4991	101.7	49.06	4978	73.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Universal Lighting Technologies	Everline	SD4-W20L830CDW-U	Downlight Recessed	1688	76.1	22 3000K		84				Continuous Dimming	Tier I (or Tier II with networked controls)
Universal Lighting Technologies	Everline	SD6-W20L830CDW-U	Downlight Recessed	1704	76.7	22 3000K		83				Continuous Dimming	Tier I (or Tier II with networked controls)
Universal Lighting Technologies	Everline	SD6-W5K830CDW-U	Downlight Recessed	3704	79.3	46 3000K		84				Continuous Dimming	Tier I (or Tier II with networked controls)
Unlimited Lighting, Inc	ATTAIN LED	AT-HB-L120-3000K-15	High-Bay Luminaires for Commercial and Industrial Buildings	12204.7	110.42	110.5	3094	84.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL32-4-12WN(2700K)	Downlight Recessed	900	76.4	12 2700K		82				Non-Dimmable	Tier I
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL32-4-12WN(3000K)	Downlight Recessed	920	77.8	12 3000K		83				Non-Dimmable	Tier I
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL32-4-12WN(4000K)	Downlight Recessed	940	79.9	12 4000/4100K		82				Non-Dimmable	Tier I
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL32-4-12WN(5000K)	Downlight Recessed	1000	84.3	12 5000K		81				Non-Dimmable	Tier I
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL32-4-9WD(2700K)	Downlight Recessed	710	82.5	9 2700K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL32-4-9WD(3000K)	Downlight Recessed	730	83.6	9 3000K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL32-4-9WD(4000K)	Downlight Recessed	740	83.9	9 4000/4100K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL32-4-9WD(5000K)	Downlight Recessed	760	88.2	9 5000K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL32-4-9WN(2700K)	Downlight Recessed	740	84.1	9 2700K		82				Non-Dimmable	Tier I
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL32-4-9WN(3000K)	Downlight Recessed	770	85.8	9 3000K		82				Non-Dimmable	Tier I
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL32-4-9WN(4000K)	Downlight Recessed	780	87.4	9 4000/4100K		82				Non-Dimmable	Tier I
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL32-4-9WN(5000K)	Downlight Recessed	800	89.8	9 5000K		82				Non-Dimmable	Tier I
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL32-5&6-14WN(2700K)	Downlight Recessed	1100	82.5	14 2700K		82				Non-Dimmable	Tier I
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL32-5&6-14WN(3000K)	Downlight Recessed	1150	85.2	14 3000K		82				Non-Dimmable	Tier I
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL32-5&6-14WN(4000K)	Downlight Recessed	1200	89	14 4000/4100K		82				Non-Dimmable	Tier I
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL32-5&6-14WN(5000K)	Downlight Recessed	1250	92.4	14 5000K		82				Non-Dimmable	Tier I
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL32-6-12WD(2700K)	Downlight Recessed	1000	90	12 2700K		81				Continuous Dimming	Tier I (or Tier II with networked controls)
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL32-6-12WD(3000K)	Downlight Recessed	1000	90.2	12 3000K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL32-6-12WD(4000K)	Downlight Recessed	1000	93.1	12 4000/4100K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL32-6-12WN(2700K)	Downlight Recessed	1100	94.5	12 2700K		81				Non-Dimmable	Tier I
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL32-6-12WN(3000K)	Downlight Recessed	1100	96.6	12 3000K		82				Non-Dimmable	Tier I
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL32-6-12WN(4000K)	Downlight Recessed	1100	96.6	12 4000/4100K		82				Non-Dimmable	Tier I
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL32-6-12WN(5000K)	Downlight Recessed	1150	98.2	12 5000K		82				Non-Dimmable	Tier I
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL32-6-15WD(2700K)	Downlight Recessed	1250	86.1	15 2700K		81				Continuous Dimming	Tier I (or Tier II with networked controls)
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL32-6-15WD(3000K)	Downlight Recessed	1300	87.3	15 3000K		83				Continuous Dimming	Tier I (or Tier II with networked controls)
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL32-6-15WD(4000K)	Downlight Recessed	1300	89.6	15 4000/4100K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL32-6-15WD(5000K)	Downlight Recessed	1380	92.6	15 5000K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL32-6-15WN(2700K)	Downlight Recessed	1200	83.6	15 2700K		82				Non-Dimmable	Tier I
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL32-6-15WN(3000K)	Downlight Recessed	1240	85.7	15 3000K		83				Non-Dimmable	Tier I
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL32-6-15WN(4000K)	Downlight Recessed	1260	87.2	15 4000/4100K		82				Non-Dimmable	Tier I
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL32-6-15WN(5000K)	Downlight Recessed	1290	90.5	15 5000K		82				Non-Dimmable	Tier I
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL32-5&6-11WD(2700K)	Downlight Solid State Retrofit	830	76.9	11 2700K		81				Continuous Dimming	Tier I (or Tier II with networked controls)
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL32-5&6-11WD(3000K)	Downlight Solid State Retrofit	840	77.4	11 3000K		83				Continuous Dimming	Tier I (or Tier II with networked controls)
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL32-5&6-11WD(4000K)	Downlight Solid State Retrofit	860	79.5	11 4000/4100K		83				Continuous Dimming	Tier I (or Tier II with networked controls)
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL32-5&6-11WD(5000K)	Downlight Solid State Retrofit	880	81.3	11 5000K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL32-5&6-11WN(2700K)	Downlight Solid State Retrofit	920	84.5	11 2700K		81				Non-Dimmable	Tier I
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL32-5&6-11WN(3000K)	Downlight Solid State Retrofit	930	86.6	11 3000K		83				Non-Dimmable	Tier I
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL32-5&6-11WN(4000K)	Downlight Solid State Retrofit	930	86.6	11 4000/4100K		82				Non-Dimmable	Tier I
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL32-5&6-11WN(5000K)	Downlight Solid State Retrofit	960	89.2	11 5000K		82				Non-Dimmable	Tier I
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL32-5&6-14WD(2700K)	Downlight Solid State Retrofit	1140	82.5	14 2700K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL32-5&6-14WD(3000K)	Downlight Solid State Retrofit	1160	84.2	14 3000K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL32-5&6-14WD(4000K)	Downlight Solid State Retrofit	1200	86.4	14 4000/4100K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL32-5&6-14WD(5000K)	Downlight Solid State Retrofit	1200	90.2	14 5000K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL32-6-12WD(5000K)	Downlight Solid State Retrofit	1000	96.8	12 5000K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL36-20W(2700K)	Downlight Solid State Retrofit	1470	75.7	20 2700K		85				Continuous Dimming	Tier I (or Tier II with networked controls)
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL36-20W(3000K)	Downlight Solid State Retrofit	1500	76.2	20 3000K		84				Continuous Dimming	Tier I (or Tier II with networked controls)
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL36-20W(4000K)	Downlight Solid State Retrofit	1540	79.9	20 4000/4100K		84				Continuous Dimming	Tier I (or Tier II with networked controls)

Manufacturer	Brand	Model Number	LED Type	Light Output (lumens)	Efficacy (lumens per Watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016-17 Tier Level (LEDA)
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL36-20W(5000K)	Downlight Solid State Retrofit	1660	84.8	20	5000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL36-25W(4000K)	Downlight Solid State Retrofit	1820	78.9	25	4000/4100K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL36-25W(5000K)	Downlight Solid State Retrofit	1960	80.6	25	5000K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL36-30W(2700K)	Downlight Solid State Retrofit	2510	85.1	30	2700K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL36-30W(3000K)	Downlight Solid State Retrofit	2530	85.3	30	3000K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL36-30W(4000K)	Downlight Solid State Retrofit	2560	86.3	30	4000/4100K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL36-30W(5000K)	Downlight Solid State Retrofit	2580	86.5	30	5000K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL36-35W(2700K)	Downlight Solid State Retrofit	2750	81.7	35	2700K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL36-35W(3000K)	Downlight Solid State Retrofit	2780	83	35	3000K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL36-35W(4000K)	Downlight Solid State Retrofit	2810	84.7	35	4000/4100K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL36-35W(5000K)	Downlight Solid State Retrofit	2850	86.6	35	5000K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL36-42W(2700K)	Downlight Solid State Retrofit	3100	77.6	40	2700K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL36-42W(3000K)	Downlight Solid State Retrofit	3180	78.2	40	3000K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL36-42W(4000K)	Downlight Solid State Retrofit	3250	79.4	40	4000/4100K	86				Continuous Dimming	Tier I (or Tier II with networked controls)
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL36-42W(5000K)	Downlight Solid State Retrofit	3300	80	40	5000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL36-50W(2700K)	Downlight Solid State Retrofit	3690	75.1	50	2700K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL36-50W(3000K)	Downlight Solid State Retrofit	3750	76.4	50	3000K	84				Continuous Dimming	Tier I (or Tier II with networked controls)
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL36-50W(4000K)	Downlight Solid State Retrofit	3800	77.4	50	4000/4100K	85				Continuous Dimming	Tier I (or Tier II with networked controls)
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL36-50W(5000K)	Downlight Solid State Retrofit	3860	78	50	5000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL40-4-9W-D(2700K)	Downlight Solid State Retrofit	700	78.9	9	2700K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL40-4-9W-D(3000K)	Downlight Solid State Retrofit	740	83.4	9	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL40-4-9W-D(4000K)	Downlight Solid State Retrofit	800	89.3	9	4000/4100K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL40-4-9W-D(5000K)	Downlight Solid State Retrofit	830	93.2	9	5000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL40-5&6-12W-D(2700K)	Downlight Solid State Retrofit	940	79.1	11.9	2700K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL40-5&6-12W-D(3000K)	Downlight Solid State Retrofit	970	82.3	11.9	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL40-5&6-12W-D(4000K)	Downlight Solid State Retrofit	1010	84.6	11.9	4000/4100K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL40-5&6-12W-D(5000K)	Downlight Solid State Retrofit	1050	88.5	11.9	5000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL40-6-14W-D(2700K)	Downlight Solid State Retrofit	1209	86.7	14	2700K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL40-6-14W-D(3000K)	Downlight Solid State Retrofit	1236	89.4	14	3000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL40-6-14W-D(4000K)	Downlight Solid State Retrofit	1295	94.2	14	4000/4100K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL40-6-14W-D(5000K)	Downlight Solid State Retrofit	1350	99.4	14	5000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL45-5&6-12W-D(2700K)	Downlight Solid State Retrofit	900	78.2	12	2700K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL45-5&6-12W-D(3000K)	Downlight Solid State Retrofit	920	81.5	12	3000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL45-5&6-12W-D(4000K)	Downlight Solid State Retrofit	990	85.9	12	4000/4100K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
Up-shine Lighting Co., Limited	UP-SHINE	UP-DL45-5&6-12W-D(5000K)	Downlight Solid State Retrofit	1050	89.5	12	5000K	83				Continuous Dimming	Tier I (or Tier II with networked controls)
US Green Lighting	US Green Lighting	L/12/DLR/D/127/001	Downlight Solid State Retrofit	750	78.4	12	2700K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
US Green Lighting	US Green Lighting	L/12/DLR/D/130/001	Downlight Solid State Retrofit	750	78.4	12	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
US Green Lighting	US Green Lighting	L/12/DLR/D/140/001	Downlight Solid State Retrofit	750	78.4	12	4000/4100K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
US Green Lighting	US Green Lighting	L/12/DLR/D/150/001	Downlight Solid State Retrofit	750	78.4	12	5000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
US Green Lighting	US Green Lighting	L/19/DLR/D/127/001	Downlight Solid State Retrofit	1200	79.9	19	2700K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
US Green Lighting	US Green Lighting	L/19/DLR/D/130/001	Downlight Solid State Retrofit	1200	79.9	19	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
US Green Lighting	US Green Lighting	L/19/DLR/D/140/001	Downlight Solid State Retrofit	1200	79.9	19	4000/4100K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
US Green Lighting, Inc.	US GREEN LIGHTING	L/UN4FT/26/DU/840/K101	Direct Linear Ambient Luminaires	3243.31	121.61	26.64	3990	85.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
US LED	EcoNight	DSCO1-2-UNV-QB3-NC-1-L-xx	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	4623	108.3	42.7	4990	82	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
US Pole Company	U.S. ARCHITECTURAL LIGHTING	RZRM-PLED-IV-48LED-525mA-NW	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	8731	107.92	80.9	3852	72	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
US Pole Company	U.S. ARCHITECTURAL LIGHTING	RZRM-PLED-IV-48LED-350mA-NW (Qualified at 120-277V Only)	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	6145	112.55	54.6	3813	72	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
US Pole Company	U.S. ARCHITECTURAL LIGHTING	RZR-PLED-IV-80LED-350mA-NW [120-277V]	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	10003	111.8	89.5	3841	73	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Valuelight	Valuelight	1X4MP-LED30-NW-UNV	Direct Linear Ambient Luminaires	3501	116.2	30.12	3976	84.02	7			Continuous (Can dim down to ≤ 10% (W))	Tier II

Manufacturer	Brand	Model Number	LED Type	Light Output (lumens)	Efficacy (lumens per Watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016-17 Tier Level (LEDA)
Venture Lighting International	Venture Lighting International	FA-121W5A	Architectural Flood and Spot Luminaires	13950	117.115	119.1	3116	83.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Venture Lighting International	Venture Lighting International	FA-212W5A	Architectural Flood and Spot Luminaires	23642	112.22	210.7	3110	83.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Venture Lighting International	Venture Lighting International	HW-100C-AC	High-Bay Luminaires for Commercial and Industrial Buildings	11810.16	114.064	103.54	5064	73.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Venture Lighting International	Venture Lighting International	HBX-120NA	High-Bay Luminaires for Commercial and Industrial Buildings	14274.47	117	121.68	3938	86	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Venture Lighting International	Venture Lighting International	HBX-200NA	High-Bay Luminaires for Commercial and Industrial Buildings	23311.57	114	204.7	3971	87	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Venture Lighting International	Venture Lighting International	HBX-165NA	High-Bay Luminaires for Commercial and Industrial Buildings	18706.32	117	160.33	3894	83.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Venture Lighting International	Venture Lighting International	WPA-44WEA	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	4713.8	107.744	43.75	3042	83.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Venture Lighting International	Venture Lighting International	WPA-81WEA	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	8777.4	108.95	80.56	3060	84.1	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Venture Lighting International	Venture Lighting International	CPA-020N-WD	Parking Garage Luminaires	2380.96	104	22.96	4082	74	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Venture Lighting International	Venture Lighting International	CPA-043N-WD	Parking Garage Luminaires	4286	105.48	40.64	3948	78	5			Not Yet Verified	Tier II
Venture Lighting International	Venture Lighting International	CPA-043C-WD	Parking Garage Luminaires	4576	111.46	41.05	4837	74	5			Not Yet Verified	Tier II
Venture Lighting International	Venture Lighting International	VL1-CPA055C-WDA-WHAC00	Parking Garage Luminaires	6142	113.57	54.08	4943	74	5			Not Yet Verified	Tier II
Venture Lighting International	Venture Lighting International	CPA-054C-WD	Parking Garage Luminaires	6142	113.57	54.08	4943	74	5			Not Yet Verified	Tier II
Verbatim Americas	Verbatim	99089	Downlight Solid State Retrofit	750	78.4	12	2700K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Verbatim Americas	Verbatim	99090	Downlight Solid State Retrofit	750	78.4	12	3000K	81				Continuous Dimming	Tier I (or Tier II with networked controls)
Verbatim Americas	Verbatim	99091	Downlight Solid State Retrofit	1200	79.3	18	3000K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Verbatim Americas	Verbatim	99092	Downlight Solid State Retrofit	1200	79.3	18	4000/4100K	82				Continuous Dimming	Tier I (or Tier II with networked controls)
Verbatim Americas, LLC	Verbatim	BAT-4FT-W26-C40-MS-NON	Stairwell and Passageway Luminaires	3255.471	118.136	27.557	3993	84.9	5			Stepped	Tier II
Visionaire Lighting	VMX	VMX-1-T2-32LC-3-4K-UNV	Outdoor Full-Cutoff Wall-Mounted Area Luminaires	3684.8	101	36.35	4024	74	5			Not Yet Verified	Tier II
Visionaire Lighting	VMX	VMX-1-T2-32LC-3-4K-UNV	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	3684.8	101	36.35	4024	74	5			Not Yet Verified	Tier II
Visionaire Lighting	PGA	PGA-1-T4-16LC-3-4K-UNV[120V Only]	Parking Garage Luminaires	2083.39	117	17.74	3940	74	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Visionaire Lighting	Visionaire Lighting	BOW-1-T5-32LC-5-55K-UNIV-[All Options Except WM]-XX-XX-X	Parking Garage Luminaires	5570.8	106.58	52.27	5192	66.7	5			Not Yet Verified	Tier II
Visioneering Corp	Visioneering	LCOM48-LED840K044LUNV-P77-[All Emergency, Finish, Packaging and Wiring Options]	Direct Linear Ambient Luminaires	4104	111.4	36.83	4003	82.94	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Visioneering Corp	Visioneering	LEL24-LED850K020LUNV-[B39, All Finish, Packaging and Wiring Options Excluding B15 and B15(9)]	Direct Linear Ambient Luminaires	2408	123.6	19.49	5142	82.41	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Visioneering Corp	Visioneering	LCOMN48-LED850K020L [UNV,347]	Direct Linear Ambient Luminaires	2106	118.6	17.76	5011	83.78	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Visioneering Corp	Visioneering	LCOMN48-LED835K040L [UNV,347]	Direct Linear Ambient Luminaires	4148	115	36.082	3521	84.16	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Visioneering Corp	Visioneering	LCOMN48-LED835K020L [UNV,347]	Direct Linear Ambient Luminaires	2104	118.3	17.79	3494	84.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Visioneering Corp	Visioneering	LHBV48-LED840K120L[UNV, 347, 480]-P67 [All Emergency, Housing, Packaging and Wiring Options]	High-Bay Luminaires for Commercial and Industrial Buildings	11436	120.6	94.83	4038	83.63	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Visioneering Corp	Visioneering	CRV48-LED835K100L[UNV, 347]-[P69, All Emergency, Construction, Packaging, Mounting and Wiring Options]	High-Bay Luminaires for Commercial and Industrial Buildings	10233	115.9	88.31	3521	84.65	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Visioneering Corp	Visioneering	CRV24-LED850K042L[UNV, 347]-[P69, All Emergency, Construction, Packaging, Mounting and Wiring Options]	Low-Bay Luminaires for Commercial and Industrial Buildings	4803	123.7	38.84	5011	84	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Voltech International Inc.	Technilight	TLHBWC150V1N	High-Bay Luminaires for Commercial and Industrial Buildings	13667.09	117.11	116.7	3963	83.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Voltech International Inc.	Technilight	TLHBWF150V1N	High-Bay Luminaires for Commercial and Industrial Buildings	17732.12	117.67	150.7	3959	83.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Voltech International Inc.	Technilight	TLHBWC200V1N	High-Bay Luminaires for Commercial and Industrial Buildings	16505.67	110.33	149.6	3957	84.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Voltech International Inc.	Technilight	TLHBWF200V1N	High-Bay Luminaires for Commercial and Industrial Buildings	23863.5	118.78	200.9	3976	83.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Voltech International Inc.	Technilight	TLHBWC120V1N	High-Bay Luminaires for Commercial and Industrial Buildings	22719.26	113.31	200.5	3967	84.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Voltech International Inc.	Technilight	TLHBWC060V1N	Low-Bay Luminaires for Commercial and Industrial Buildings	7851.68	120.8	65	3943	83.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Voltech International Inc.	Technilight	TLHBWF060V1N	Low-Bay Luminaires for Commercial and Industrial Buildings	7696.68	118.23	65.1	3962	84.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
VOOTU Inc.	VOOTU	VT-RKPUS-100WD2(4000K)	Retrofit Kits for Outdoor Full-Cutoff Wall-Mounted Area Luminaires	11695	113.96	102.6	3979	83.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
VOOTU Inc.	VOOTU	VT-RKPUS-60WV2-HV(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	6851.2	116.39	58.91	3978	83.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
VOOTU Inc.	VOOTU	VT-RKPUS-80WV2(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	9402.5	112.59	83.69	3992	83.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
VOOTU Inc.	VOOTU	VT-RKPUS-120WV2(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	14082	113.34	124.2	3990	83.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
VOOTU Inc.	VOOTU	VT-RKPUS-150WV2(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	18376	119.91	153.2	4003	83.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
VOOTU Inc.	VOOTU	VT-RKPUS-150WD2(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	18709	123.25	151.8	4007	83.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
VOOTU Inc.	VOOTU	VT-RKPUS-240WD2(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	28013	118.15	237.8	4001	83.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
VOOTU Inc.	VOOTU	VT-RKPUS-300WD2(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	35288	116.35	303.8	3995	83.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
VOOTU Inc.	VOOTU	VT-RKPUS-300WD2-HV(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	34952	117.21	298.2	3996	83.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
VOOTU Inc.	Metro LED	VT-RKPUS-400WD2(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	47542	113.38	420.5	3996	83.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
VOOTU Inc.	VOOTU	VT-RKPUS-480WD2(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	53085	112.97	470.5	4010	83.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II

Manufacturer	Brand	Model Number	LED Type	Light Output (lumens)	Efficacy (lumens per Watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016-17 Tier Level (LEDA)
VOOTU Inc.	VOOTU	VT-RKPUS-120WD2(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	15057	115.82	130	3998	83.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
VOOTU Inc.	VOOTU	VT-RKPUS-200WD2(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	27078	129.15	210.2	3990	83.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
WAI CHI OPTO TECHNOLOGY LTD.	WAICHI	LLHA05-S150(G) (4000K) [Straight down only]	High-Bay Luminaires for Commercial and Industrial Buildings	17732.12	117.67	150.7	3959	83.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
WAI CHI OPTO TECHNOLOGY LTD.	WAICHI	LLHA05-S150(P) (4000K) [Straight down only]	High-Bay Luminaires for Commercial and Industrial Buildings	16505.67	110.33	149.6	3957	84.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
WAI CHI OPTO TECHNOLOGY LTD.	WAICHI	LLHA05-S200(G) (4000K) [Straight down only]	High-Bay Luminaires for Commercial and Industrial Buildings	23863.5	118.78	200.9	3976	83.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
WAI CHI OPTO TECHNOLOGY LTD.	WAICHI	LLHA05-S200(P) (4000K) [Straight down only]	High-Bay Luminaires for Commercial and Industrial Buildings	22719.26	113.31	200.5	3967	84.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
WAI CHI OPTO TECHNOLOGY LTD.	WAICHI	LLHA05-S120(G) (4000K) [Straight down only]	Low-Bay Luminaires for Commercial and Industrial Buildings	13667.09	117.11	116.7	3963	83.6	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
WAI CHI OPTO TECHNOLOGY LTD.	WAICHI	LLHA05-S060(G) (4000K) [Straight down only]	Low-Bay Luminaires for Commercial and Industrial Buildings	7851.68	120.8	65	3943	83.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
WAI CHI OPTO TECHNOLOGY LTD.	WAICHI	LLHA05-S060(P) (4000K) [Straight down only]	Low-Bay Luminaires for Commercial and Industrial Buildings	7696.68	118.23	65.1	3962	84.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Wen Lighting	WEN	WEN-RKPUS-150WD2(4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	18709	123.25	151.8	4007	83.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Wen Lighting	WEN	WEN-RKPUS-300WD2 (4000K)	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	35288	116.35	303.8	3995	83.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Wenzhou Yongtai Electric Co., Ltd	YOTI	LDR4-30	Downlight Solid State Retrofit	650	76.2	12.5 3000K		84				Continuous Dimming	Tier I (or Tier II with networked controls)
Wenzhou Yongtai Electric Co., Ltd	YOTI	LDR4-40	Downlight Solid State Retrofit	650	76.2	12.5 4000/4100K		84				Continuous Dimming	Tier I (or Tier II with networked controls)
Wenzhou Yongtai Electric Co., Ltd	YOTI	LDR6-30	Downlight Solid State Retrofit	850	80.1	12.5 3000K		84				Continuous Dimming	Tier I (or Tier II with networked controls)
Wenzhou Yongtai Electric Co., Ltd	YOTI	LDR6-40	Downlight Solid State Retrofit	850	80.1	12.5 4000/4100K		84				Continuous Dimming	Tier I (or Tier II with networked controls)
WesPac Import & Export Limited	Facon	SY-DL0148H-108	Downlight Solid State Retrofit	800	75.4	11.2 3000K		80				Continuous Dimming	Tier I (or Tier II with networked controls)
Westinghouse Lighting Corporation	Westinghouse		Downlight Solid State Retrofit	650	81.9	9.1 3000K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Westinghouse Lighting Corporation	Westinghouse		Downlight Solid State Retrofit	650	79.1	8.6 2700K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Westinghouse Lighting Corporation	Westinghouse		Downlight Solid State Retrofit	1000	79.4	14.1 3000K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Westinghouse Lighting Corporation	Westinghouse		Downlight Solid State Retrofit	1000	82	14.3 3000K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Westinghouse Lighting Corporation	Westinghouse		Downlight Solid State Retrofit	750	78.4	12 3000K		81				Continuous Dimming	Tier I (or Tier II with networked controls)
WISDOM OPTOELECTRONICS TECHNOLOGY CO.,LIMITED	WISDOM	WSD-SHB15WZ7-50K	High-Bay Luminaires for Commercial and Industrial Buildings	18002	111.8	160.9	5076	84.3	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
WISDOM OPTOELECTRONICS TECHNOLOGY CO.,LIMITED	WISDOM	WSD-SHB20WZ7-50K	High-Bay Luminaires for Commercial and Industrial Buildings	22390	111.6	200	5174	85.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
WISDOM OPTOELECTRONICS TECHNOLOGY CO.,LIMITED	WISDOM	WSD-SCL035WZ7-50K	Stairwell and Passageway Luminaires									Stepped	Tier II
Xeleum Lighting	Xeleum	XASW02-M50KJE	Stairwell and Passageway Luminaires	3521.892	102.146	34.479	4973	85.6	5			Not Yet Verified	Tier II
Xeleum Lighting	Xeleum	XAS04-M40KJE (or N)	Stairwell and Passageway Luminaires	3017.548	103.696	29.1	4960	82.7	5			Not Yet Verified	Tier II
XIAMEN GREENER OPTOELECTRONICS CO., LTD.	GREENER	GRLED-2M-70W-40B	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	8616.84	120.5	71.5	4127	73.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
XIAMEN GREENER OPTOELECTRONICS CO., LTD.	GREENER	GRLED-3MA-110W-40B	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	12960.3	117.8	110.05	4098	73.4	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
XtraLight Manufacturing, Ltd.	XtraLight	LRSLED402036XSXDIMXXRFXXW	Direct Linear Ambient Luminaires	3776	110.1	34.54	5292	80.62	10			Continuous (Can dim down to ≤ 10% (W))	Tier II
XtraLight Manufacturing, Ltd.	XTRALIGHT	LHBLED206140XSXUINXXXXX*	High-Bay Luminaires for Commercial and Industrial Buildings	16662	121.3	137.44	5084	76.79	5			Not Yet Verified	Tier II
XtraLight Manufacturing, Ltd.	XtraLight	LHBLED206200NXSGUINXXXXXWPP [ALL HOUSING COLORS]	High-Bay Luminaires for Commercial and Industrial Buildings	21158	110.6	191.27	5156	77.07	5			Not Yet Verified	Tier II
XtraLight Manufacturing, Ltd.	XtraLight	LHBLED208267XSXUINX*XXXXWPP [120-277V ONLY]	High-Bay Luminaires for Commercial and Industrial Buildings	28003	112.6	248.72	5171	77.19	5			Not Yet Verified	Tier II
XtraLight Manufacturing, Ltd.	XtraLight	VTHLED408200NXSUIXXL2XXX	High-Bay Luminaires for Commercial and Industrial Buildings	20918	110.4	185.56	5096	77.2	5			Not Yet Verified	Tier II
XtraLight Manufacturing, Ltd.	XtraLight	VTHLED406140NXSUIXXL2XXX	High-Bay Luminaires for Commercial and Industrial Buildings	15580	113.6	135.64	5067	77.03	10			Not Yet Verified	Tier II
XtraLight Manufacturing, Ltd.	XtraLight Manufacturing Ltd	LHBLED324600XSXGDIXXXXXWPP	High-Bay Luminaires for Commercial and Industrial Buildings	65445	115.4	567.11	5172	73.3	10			Continuous (Can dim down to ≤ 10% (W))	Tier II
XUYANG GROUP (SHENZHEN) GLOBAL BUSINESS SERVICE LTD.	XY	AL-120W-C00-50	Architctural Flood and Spot Luminaires	13412	111.58	120.2	5233	71.1	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
XUYANG GROUP (SHENZHEN) GLOBAL BUSINESS SERVICE LTD.	XY	RK-120W-220-41	Retrofit Kits for High-Bay Luminaires for Commercial and Industrial Buildings	13362	110.16	121.3	4000	72.9	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
XUYANG GROUP (SHENZHEN) GLOBAL BUSINESS SERVICE LTD.	XY	RK-45W-220-41	Retrofit Kits for Outdoor Full-Cutoff Wall-Mounted Area Luminaires	4468.9	108.07	41.35	4089	67	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
XUYANG GROUP (SHENZHEN) GLOBAL BUSINESS SERVICE LTD.	XY	RK-65W-230-41	Retrofit Kits for Outdoor Full-Cutoff Wall-Mounted Area Luminaires	7050.3	106.48	66.21	4161	67.2	5			Continuous (Cannot dim down to ≤ 10% (W))	Tier II
Yankon Lighting, Inc.	Yankon	MQT4004F-LED11.5K830GH	Downlight Solid State Retrofit	750	76	11.5 3000K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Yankon Lighting, Inc.	Yankon	MQT6004F-LED18K830GH	Downlight Solid State Retrofit	1200	77	18 3000K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Yankon Lighting, Inc.	Yankon	MQT6005F-LED11.5K830H	Downlight Solid State Retrofit	750	81	11.5 3000K		82				Continuous Dimming	Tier I (or Tier II with networked controls)
Yankon Lighting, Inc.	Yankon	MXS001-LED2/24K840	Downlight Surface Mount	3600	87.5	48 4000/4100K		85				Non-Dimmable	Tier I
YUEQING KINON TRADING CO LTD	DE	DE-BYD-2-080M-30 (Pointing Straight Down Only)	High-Bay Luminaires for Commercial and Industrial Buildings	10369.091	111.03	93.39	3015	71.8	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
YUEQING KINON TRADING CO LTD	DE	DE-BYD-3-120M-30 (Pointing Straight Down Only)	High-Bay Luminaires for Commercial and Industrial Buildings	14434.648	112.903	127.88	3008	71.9	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
YUEQING KINON TRADING CO LTD	DE	DE-BYD-4-160M-30 (Pointing Straight Down Only)	High-Bay Luminaires for Commercial and Industrial Buildings	17830.33	110.71	160.57	3028	72	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
YUEQING KINON TRADING CO LTD	DE	DE-BYD-5-200M-30 (Pointing Straight Down Only)	High-Bay Luminaires for Commercial and Industrial Buildings	24433.295	113.564	215.15	3015	72	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
YUEQING KINON TRADING CO LTD	DE	DE-SLD-2-080M-30	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	9246.039	111.157	83.18	2995	72.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
YUEQING KINON TRADING CO LTD	DE	DE-SLD-3-120M-30	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	14099.6	111.003	127.02	2993	72.2	5			Continuous (Can dim down to ≤ 10% (W))	Tier II

Manufacturer	Brand	Model Number	LED Type	Light Output (Lumens)	Efficacy (lumens per Watt)	Wattage	Color Temperature (K)	CRI	Warranty (years)	Beam Angle	R9 (listed for lamps)	Dimming	2016-17 Tier Level (LEDA)
YUEQING KINON TRADING CO LTD	DE	DE-SLD-4-160M-30	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	19429.707	112.675	172.44	3006	72	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Zhongshan Hongbao Electrical Co., Ltd.	HOMBO	HB-072-60W (3000K)	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	7225.66	117.62	61.52	3202	69.7	5			Not Yet Verified	Tier II
Zlight Technology	ZLight	ZT-FLRK-40K-80W	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	9402.5	112.59	83.69	3992	83.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Zlight Technology	ZLight	ZT-FLRK-40K-120W	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	14082	113.34	124.2	3990	83.5	5			Continuous (Can dim down to ≤ 10% (W))	Tier II
Zlight Technology	ZLight	ZT-FLRK-40K-300W	Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	35288	116.35	303.8	3995	83.7	5			Continuous (Can dim down to ≤ 10% (W))	Tier II

DLC Categories	Definitions
Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	Typical street lights, parking lot lights. May be cobra-head shaped, shoe-box, etc.
Outdoor Full-Cutoff Wall-Mounted Area Luminaires	Typically walkway or security lights, affixed to building wall. May be box-shaped. These products produce no uplight.
Outdoor Non-Cutoff and Semi-cutoff Wall-Mounted Area Luminaires	Typically walkway or security lights, affixed to building wall. May be box-shaped. The products produce a non-negligible amount of uplight.
Parking Garage Luminaires	Ceiling-mounted luminaires for use outdoors or in locations open to elements in multi-deck garages.
Landscape/Accent Flood and Spot Luminaires	Small, low-lumen, directional luminaires intended to highlight objects and areas in outdoor lighting. Manufacturers must follow NEMA guidelines for declaring beam spread.
Architectural Flood and Spot Luminaires	Directional luminaires intended to highlight objects and areas in outdoor lighting. Manufacturers must follow NEMA guidelines for declaring beam spread.
Stairwell/Passageway Luminaires	Corner- or surface-mounted luminaires that provide lighting in stairwells and passageways. Luminaires must meet one of the following conditions: include integral controls, operate off of remote sensors where remote sensor is packaged together with the luminaire under a single model number, or be designed to operate off of remote sensors, where the luminaire and sensors are sold separately, but the luminaire has features enabling communication with a remote sensor. Controls must assure the luminaire reverts to lower-power, lower-light output state when there are no occupants in the vicinity.
Wall-Wash Luminaires	Luminaires designed to illuminate walls in interior spaces.
Track or Mono-Point Directional Luminaires	Usually ceiling-mounted tracks or fixed single head. Adjustable aim "cans". Complete LED fixtures (not replacement lamps in existing cans such as PAR 38 or MR16 lamps).
Direct Linear Ambient Luminaires	Suspended- or surface-mounted luminaires or recessed luminaires, no wider than 12", designed to provide direct lighting in indoor spaces. Products may be designed to be installed end-to-end to create long chains, and may be described as direct, indirect, semi-direct, semi-indirect, or general ambient, depending on intended lighting distribution. Utilitarian "strip" style fixtures are also eligible under this category. Products intended for cove lighting are not currently eligible under this category.
Linear Ambient Luminaires with Indirect Component	to provide ambient lighting in indoor spaces, including an intentional lighting component that is indirect. Products may be designed to be installed end-to-end to
High-Bay Luminaires for Commercial and Industrial Buildings	Pendent, recessed, or surface-mounted fixtures specific for indoor high ceiling spaces (intended for ceilings $\geq 25'$).
Low-Bay Luminaires for Commercial and Industrial Buildings	Pendent, recessed, or surface-mounted fixtures specific for indoor ceiling spaces (intended for $< 25'$).

High-Bay Aisle Luminaires for Commercial and Industrial Buildings	Pendent or surface-mounted fixtures specific for indoor high ceiling spaces (intended for ceilings $\geq 25'$), in locations that require lighting of aisles.
Retrofit Kits for Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	Integrated-style kits that replace all reflectors and optical systems of existing luminaires. Not screw-in "lamps" intended as HID replacements.
Retrofit Kits for Large Outdoor Pole/Arm-Mounted Area and Roadway Luminaires	Integrated-style kits that replace all reflectors and optical systems of existing luminaires. Not screw-in "lamps" intended as HID replacements.
Retrofit Kits for Outdoor Full-Cutoff Wall-Mounted Luminaires	Integrated-style kits that replace all reflectors and optical systems of existing luminaires. Not screw-in "lamps" intended as HID replacements.
Retrofit Kits for Parking Garage Luminaires	Integrated-style kits that replace all reflectors and optical systems of existing luminaires. Not screw-in "lamps" intended as HID replacements.
Retrofit Kits for Direct Linear Ambient Luminaires	Retrofit kits for "strip" luminaires and other types of linear ambient luminaires. Do not employ existing lamp holders or "pin" bases.
Retrofit Kits for High-Bay Luminaires for Commercial and Industrial Buildings	Integrated-style kits that replace all reflectors and optical systems of existing luminaires. Not screw-in "lamps" intended as HID replacements.
Retrofit Kits for Low-Bay Luminaires for Commercial and Industrial Buildings	Integrated-style kits that replace all reflectors and optical systems of existing luminaires. Not screw-in "lamps" intended as HID replacements.
External-driver Linear Lamp-Style Retrofit Kits (UL Type C)	Four- and two-foot "tubes" designed to replace four- or two-foot fluorescent lamps, respectively. Products in this category employ lamp holders to connect to the fixture being retrofitted, do not operate off the existing fluorescent ballast, and require rewiring of the existing fixture to replace the ballast with an external driver. The lamp holders are then wired to receive only the low-voltage electricity that is supplied by that external driver. Note that due to testing considerations, only one- or two-lamp four-foot lamp systems, or one- and three-lamp two-foot lamp systems are eligible. Development of provisions for systems with alternative numbers of lamps operating off single drivers is under consideration. Please note reference to UL type is derived from UL 1993, 4th edition, 2012-12-04 Section SA6.13.1. (See Linear Replacement Lamps page for more detail on testing requirements)

ES Lamp Categories**Directional or Omnidirectional**

A19	Omnidirectional
MR16	Directional
MRX16	Directional
PAR16	Directional
PAR20	Directional
PAR30	Directional
PAR30L	Directional
PAR38	Directional

ES Fixture Categories	Definitions
Accent Light Line-voltage	Line-voltage directional track lights
Downlight Recessed	A small direct lighting unit that directs the light downward and is recessed
Downlight Solid State Retrofit	An LED retrofit for a small direct lighting unit that directs the light downward and can be recessed, surface mounted, or suspended
Downlight Surface Mount	A small direct lighting unit that directs the light downward and is surface mounted
Downlight Pendant	A small direct lighting unit that directs the light downward and is hanging