

FLL LED FLOODLIGHT

Cat.#

Job

Type



HUBBELL
Outdoor Lighting

Approvals

SPECIFICATIONS

Intended Use:

Large LED flood with beam distribution for lighting applications such as safety/security, facade, area, or signs

Construction:

- Corrosion resistant, rugged die-cast aluminum housing with powder coat paint finish
- Tempered glass lens protects LEDs and allows for cleaning/debris removal
- Vented housing isolates LED module from driver, maximizing product life and performance
- Visor, louver and vandal accessories available

LED:

- 28 high power LED's (Stock/MTO)
- 42 high power LED's (MTO)
- 140 high power LED's (Stock)
- Ambient operating temperature -35°C to 40°C
- Stock Versions: 4000K and 5000K CCT
- MTO Versions: 3000K nominal with 80 CRI, 4000K and 5000K CCT nominal with 70 CRI

Optical/Electrical:

- Variety of NEMA distributions - N (3x3), M (4x4), RM (5x4) and W (6x6) - for wide range of lighting applications; Stock version Wide (6x6) only
- 120-277V operation, 50/60Hz, 95W, 1050mA, 100 LPW (Stock/MTO - 28LED)
- 120-277V operation, 50/60Hz, 150W, 158mA, 98 LPW (Stock only - 140LED)

Optical/Electrical (Cont.)

- 120-277V, 347V, and 480V operation, 50/60Hz, 95W, 700mA, up to 119 LPW (MTO only - 42LED)
- IP65 fixture, Driver IP66 and RoHS compliant
- 10KV surge protector comes standard
- 0-10V dimming driver standard, continuous dimming option to have leads pulled out for easy connection

Installation:

- Knuckle mount 15' aiming angle increments for precise aiming and control, fits 2-3/8" tenons or pipes
- Heavy duty steel yoke with adjustable stainless steel hardware, mounting holes for one center - 3/4" bolt or two side - 3/8" bolts
- 3' SE00W cord with yoke mount

Listings:

- IP65, Listed to UL1598 for use in wet locations.
- DLC Qualified (4000K and 5000K models only); Consult DLC website for more details: <https://www.designlights.org/QPL>
- EPA = 1.0ft²

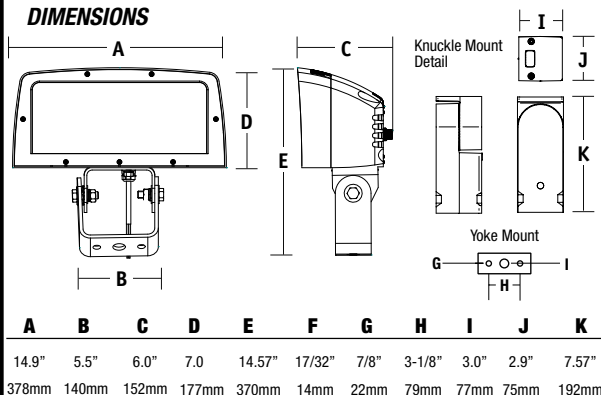
Warranty:

For more information visit:
<http://www.hubbellighting.com/resources/warranty/>

PRODUCT IMAGE(S)



DIMENSIONS



CERTIFICATIONS/LISTINGS



SHIPPING INFORMATION

Catalog Number	G.W.(kg)/CTN	Carton Dimensions		
		Length Inch (cm)	Width Inch (cm)	Height Inch (cm)
FLL (Single Carton)	25 (12.3) lbs	17.72" (45)	13.0" (33)	10.00" (25.5)

Carton dimensions for shipping purposes only

ORDERING INFORMATION - STOCK VERSION

Catalog Number	Mount	Max Candle Power	Beam Pattern	Wattage	# Drivers/ Current	Voltage	Color Temperature/ CRI	Lumens	LPW	Weight lbs. (kg)	Finish
FLL-28L	Yoke	7789	Wide	98w	1@1050mA	120-277V	5000K/70	10536	108	20 (9.0)	Bronze
FLL-28L4K	Yoke	7560	Wide	98w	1@1050mA	120-277V	4000K/70	10291	105	20 (9.0)	
FLL-Y-140L4K-U	Yoke	5627	Wide	150w	1@158mA	120-277V	4000K/80	14665	98	20 (9.0)	
FLL-150L5K-U-Y	Yoke	5731	Wide	150w	1@158mA	120-277V	5000K/80	14764	98.4	20 (9.0)	
FLL-K-140L4K-U	Knuckle	5627	Wide	150w	1@158mA	120-277V	4000K/80	14665	98	20 (9.0)	
FLL-K-140L5K-U	Knuckle	5731	Wide	150w	1@158mA	120-277V	5000K/80	14764	98.4	20 (9.0)	

ORDERING INFORMATION - MADE TO ORDER

FLL - [] - [] - [] - [] - [] - [] - [] - [] - [] - []

FAMILY	# LEDS	WATTS	CCT	DISTRIBUTION	VOLTAGE	MOUNTING	FINISH	CONTROL OPTION	OPTIONS
FLL FACTOR Flood Large	28L 28 LED	95 95W	3K 3000K	N 3x3	U 120V-277V	K Knuckle	DB Bronze	PC Photocontrol (voltage specified and determined by voltage field)	F Fusing 120 or 277V only (determined by voltage field)
	42L 42 LED		4K 4000K	M 4x4	1 120V	Y Yoke	BL Black		
			5K 5000K	RM 5x4	2 208V		WH White	CD Continuous dimming	
				W 6x6	3 240V		GR Gray		
					4 277V		PS Platinum silver		
					5 ¹ 480V		CC Custom Color		
					F ¹ 347V				

¹ 42L only



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Outdoor Lighting

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ACCESSORIES & REPLACEMENT PARTS - Order Separately

Catalog Number	Description
FLL-VISOR-DB	Bronze top visor (Tap holes in lens frame for field installation)
93053186	FLL28, 95w, 120-277V Dimming driver, 1050mA (1 Qty)
93053187	FLL140, 95w, 120-277V Dimming driver, 700mA (1 Qty)
FLL-LOUVER-BL	Black adjustable louver
ARF-SPC	Polycarbonate vandal shield
4024C	Steel slipfitter for 2" pipe, 2 3/8" OD yoke mount, bronze finish
4040	Heavy-duty steel wall/pole bracket; bronze Lektrocote®



FLL-LOUVER-BL



ARF-SPC



FLL-VISOR-XX

PERFORMANCE DATA - Stock

PERFORMANCE DATA - Stock				4K (4000K nominal)				5K (5000K nominal)		
# OF LEDS	DRIVE CURRENT (MILLIAMPS)	SYSTEM WATTS	DISTRIBUTION TYPE	NEMA	LUMENS	LPW	MAX BEAM CANDLEPOWER	LUMENS	LPW	MAX BEAM CANDLEPOWER
28	1050mA	95W	W	6 x 6	8992	94.5	6805	9557	100.6	6935
140	158mA	150W	W	7 x 7	14665	98	5627	14764	98.4	5731

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. Actual performance may differ as a result of end-user environment, application and inherent performance tolerances of the electrical components.

PERFORMANCE DATA - MTO

# OF LEDS	DRIVE CURRENT	SYSTEM WATTS	DIST. TYPE	NEMA	FIELD ANGLE H° X V°	5K (5000K nominal, 70 CRI)			4K (4000K nominal, 70 CRI)			3K (3000K nominal, 80 CRI)		
						LUMENS	LPW ¹	MAX BEAM CANDLEPOWER	LUMENS	LPW ¹	MAX BEAM CANDLEPOWER	LUMENS	LPW ¹	MAX BEAM CANDLEPOWER
28	1050mA	95W	W	6 x 6	107° x 107°	9557	100.6	6935	8992	94.5	6805			
42	700mA	95W	N	3 x 3	32° x 32°	10860	114	91770	10263	108	85000	7473	80	63093
			M	4 x 4	53° x 53°	11400	119	46836	10335	108	33566	7654	81	26201
			RM	5 x 5	84° x 86°	9806	102	17388	8889	93	14733	6702	71	11395
			W	6 x 6	107° x 107°	10967	113	8024	10173	105	7265	7694	79	5475

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. Actual performance may differ as a result of end-user environment and application.

PROJECTED LUMEN MAINTENANCE

OPERATING HOURS – FLL-28L						
AMBIENT TEMP.	0	25,000	50,000	¹ TM-21-11 60,000	100,000	Calculated L70 (HOURS)
25°C / 77°F	1.00	0.94	0.91	0.88	0.79	>149,000
40°C / 104°F	1.00	0.92	0.90	0.87	0.76	>132,000

Nichia 219B, 1080mA, 85°C

OPERATING HOURS – FLL-42L						
AMBIENT TEMP.	0	25,000	50,000	¹ TM-21-11 60,000	100,000	Calculated L70 (HOURS)
25°C / 77°F	1.00	0.98	0.96	0.96	0.94	>625,000
40°C / 104°F	1.00	0.96	0.94	0.93	0.90	>435,000

OPERATING HOURS – FLL-140L						
AMBIENT TEMP.	0	25,000	50,000	¹ TM-21-11 60,000	100,000	Calculated L70 (HOURS)
25°C / 77°F	1.00	0.96	0.94	0.93	0.89	>331,000
40°C / 104°F	1.00	0.95	0.92	0.90	0.85	>237,000

Nichia NFSL757DT-V1, 150mA, 85°C

ELECTRICAL DATA

# OF LEDS	NUMBER OF DRIVERS	DRIVE CURRENT (mA)	INPUT VOLTAGE (V)	CURRENT (Amps)	SYSTEM POWER (W)
28	1	1050mA	120	0.82	95
			277	0.36	95
42	1	700mA	120	.80	96
			277	.35	96
140	1	158mA	120	1.25	150
			277	0.54	150

LUMINAIRE AMBIENT TEMPERATURE FACTOR (LATF)

AMBIENT TEMPERATURE		LUMEN MULTIPLIER
0°C	32°F	1.02
10°C	50°F	1.01
20°C	68°F	1.00
25°C	77°F	1.00
30°C	86°F	1.00
40°C	104°F	0.99

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).



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