

**PHILIPS  
LIGHTOLIER**



**Downlighting**

**LyteCaster**

3" Accent round downlight  
800 Lumens



Project: \_\_\_\_\_  
 Location: \_\_\_\_\_  
 Cat.No: \_\_\_\_\_  
 Type: \_\_\_\_\_  
 Lamps: \_\_\_\_\_ Qty: \_\_\_\_\_  
 Notes: \_\_\_\_\_

Philips Lightolier LyteCaster LED Accent downlights feature a 3.5" luminaire height that conserves plenum space without compromising the 60° physical and reflected cutoff. The modular and interchangeable light engine allows for an easy future upgrade. The accent downlight is damp location listed and comes in 3 standard finish options.

**Complete product = Frame-in kit + Light engine + Trim Order each separately**

**Ordering guide: Frame-In kit**

Example: L3AE1

Series	Frame type	Dimming	Input voltage
<b>L3</b>			
L3 LyteCaster 3" Accent	<b>A</b> AirSeal IC, New Construction, Screw <b>AN</b> AirSeal IC, New Construction, Nail <b>C</b> Remodeler Non-IC	<b>E</b> ELV/Triac dimming	<b>1</b> 120V
	<b>N</b> New Construction Non-IC	<b>Z10</b> 0-10V	<b>U</b> Universal (120-277V)

**Ordering guide: Light engine**

Example: L308830NF

Series	Lumens	CRI	CCT	Beam	Option
<b>L3</b>	<b>08</b>				
L3 LyteCaster 3" Accent	08 800	<b>8</b> 80	<b>27</b> 2700K <b>30</b> 3000K <b>35</b> 3500K	<b>S</b> Spot, 17° <b>NF</b> Narrow flood, 22° <b>F</b> Flood, 33°	
		<b>9</b> 90	<b>27</b> 2700K <b>30</b> 3000K <sup>1</sup>	<b>S</b> Spot, 17° <b>NF</b> Narrow flood, 22° <b>F</b> Flood, 33°	<b>CW</b> CrispWhite <sup>1</sup>

**Ordering guide: Round trim**

Example: L3RDDD

Series	Shape	Luminaire type	Finish	Flange
<b>L3</b>	<b>R</b>			
L3 LyteCaster 3" Accent	R Round	<b>D</b> Downlight	<b>C</b> Chrome cone <b>D</b> Diffuse cone <b>W</b> White cone	<b>blank</b> White
		<b>B</b> Baffle downlight	<b>W</b> White baffle	<b>blank</b> White

1. 3000K and CrispWhite must be ordered together.



# L3RD LyteCaster 3" Round

General purpose accent downlight, 800 lumens

## Ordering guide: Accessories

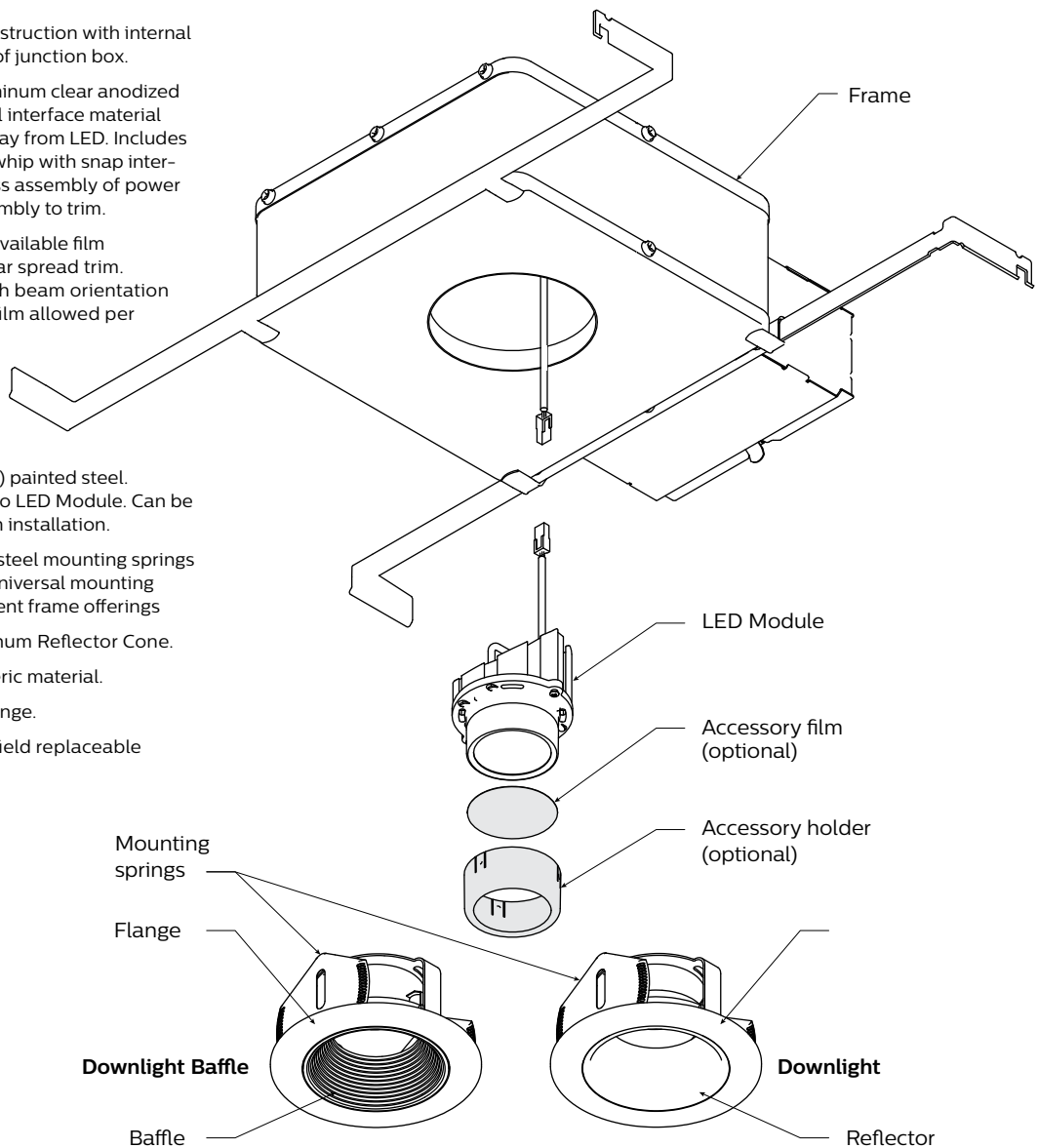
Series	Type	Beam	Finish
<b>L3</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>L3</b> LyteCaster 3" Accent	<b>AH</b> Accessory holder		<b>W</b> White <b>B</b> Black
	<b>LS</b> Linear lens spread film <sup>2</sup> <b>SD</b> 5° soft diffusion film <sup>2</sup>		
	<b>RP</b> Replacement Optic	<b>S</b> Spot <b>NF</b> Narrow flood <b>F</b> Flood	

2. Accessory holder required.

## Assembled configuration:

1. Frame Galvanized steel construction with internal access door for inspection of junction box.
2. LED Module Extruded Aluminum clear anodized finish heat sink with thermal interface material efficiently transfers heat away from LED. Includes strain relieved low voltage whip with snap interconnector for quick, tool less assembly of power connection. Tool-less assembly to trim.
3. Accessory Film (Optional) Available film accessories: .010 thick Linear spread trim. Film has notch to assist with beam orientation Holder required; only one film allowed per installation.
4. Accessory Holder (Optional) painted steel. Accessory holder snaps onto LED Module. Can be installed before or after trim installation.
5. Mounting springs stainless steel mounting springs min 0.013" thick provide a universal mounting solution between the different frame offerings
6. Downlight Reflector: Aluminum Reflector Cone.
7. Step Baffle: Molded polymeric material.
8. Die Cast Aluminum Trim Flange.

Note: LED module allows for field replaceable optics. Order separately.

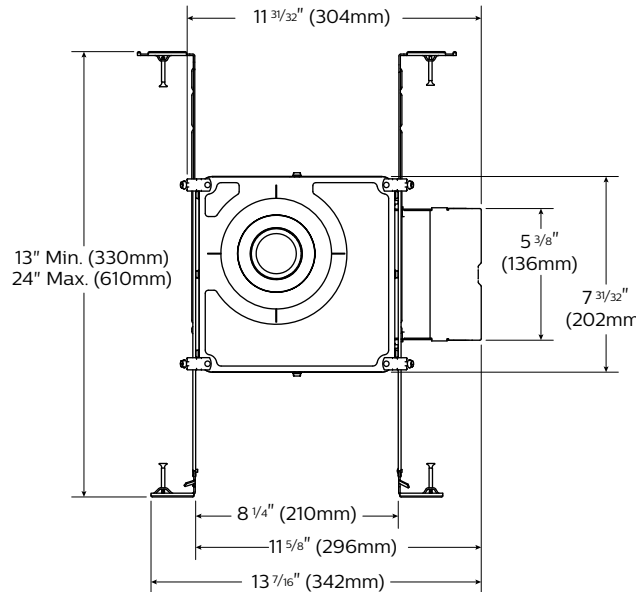


# L3RD LyteCaster 3" Round

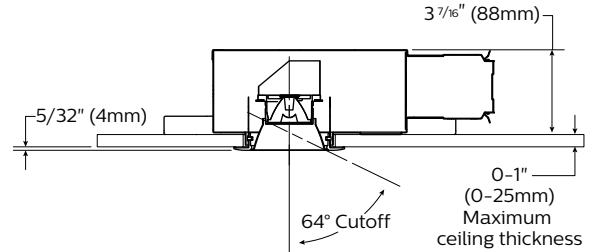
General purpose accent downlight, 800 lumens

## L3AE1 & L3ANE1 new construction in IC AirSeal frame-in kits

Bottom view

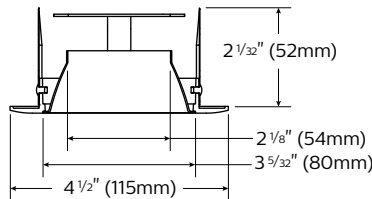


Side view

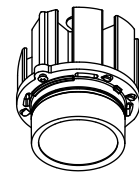


Round trim

Side view



Light engine



## Features

- Housing:** #23 ga. (.026") thick Galvanized steel. cULus listed for direct contact with thermal insulation (IC rated). AirSeal housing minimizes air leakage to less than 2 CFM at 1.57PSF (or 75PA), which complies with Title 24, the International Energy Conservation Code, and Washington State Energy Code (Section 502.4). This helps to reduce heat loss and condensation in ceiling. Internal access door for inspection of junction box.
- Lower frame and top cover:** #23 ga. (.026") thick Galvanized steel. Accommodates ceilings up to 1" (25.4 mm) thick. Bottom cover provided with a .5" (6.2mm) lip and 4 embossed indicator lines to simplify alignment during installation. Housing can be locked into position on the mounting bars with locking screws.
- Junction box:** 2 1/2" (64mm) x 5 3/8" (137mm) x 2" (51mm) #21 ga. (.032") thick galvanized steel. cULus listed 90 degrees C rated supply conductors. Rated for branch circuit wiring supplying connected luminaires (daisy chaining).
- Mounting bars:** #16 ga. (.059") thick galvanized steel. Bars pivot for easy attachment and wire in from below the ceiling line. Bars can extend to accommodate 16" (406mm) to 24" (610mm) O.C. joist spacing. Bars can accommodate 12" (305mm) O.C. joist spacing after slight field modification (see instruction sheet). Features integral self-tapping screw phillips/square drive for attachment to wood or metal construction. Also available with integral nails (N). Attaches to T-bar ceilings without accessories. Bars installed on shortest dimension of frame can be easily rotated 90° from original position.
- Electronic dimming driver:** Class 2 electronic LED Driver, with less than 1 second start up, RoHS compliant, suitable for damp locations. 120v 50/06Hz >.9 power factor. Sound rating Class "A" (<24dB). Complies with FCC,CFR title 47 part 15 Class B for EMI/RFI. Dimmable with standard electronic low voltage (ELV) & Triac dimmers. Dims to less than or equal to 10% of relative high output. 5 year limited warranty.
- Ceiling cutout:** 3 3/4" diameter.

## Electrical

Input voltage 120v, Input freq.: 50/60 hZ, Input current .25 amps, Input Power 12W, Power factor >.9

## Warranty

5 year limited warranty. (visit [philips.com/warranties](http://philips.com/warranties) for details)

## Labels

cULus type IC listed suitable for damp location. AirSeal.

This product complies with the requirements of the California Energy Commission regulated under Title 24, and has been listed in the Title 20 database.

## Energy Star

Product family has Energy Star certification with the following exception:  
 • All 90 CRI options

## Title 24

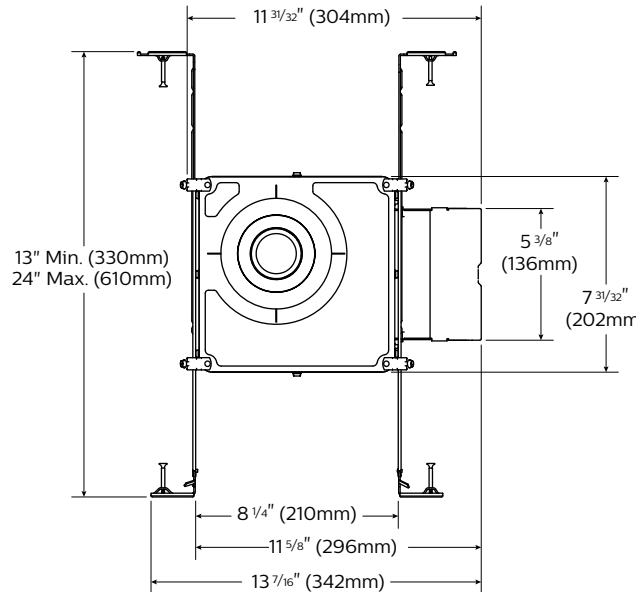
Product family has Title 24 certification with the following exception:  
 • All 80 CRI options

# L3RD LyteCaster 3" Round

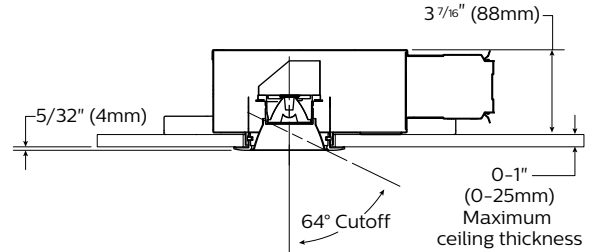
General purpose accent downlight, 800 lumens

## L3NZ10V New construction non IC 0-10V frame-in kit

Bottom view

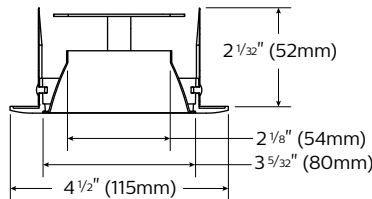


Side view

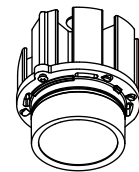


Round trim

Side view



Light engine



## Features

- Non-IC housing:** #23 ga. (.026") thick Galvanized steel. cULus listed for damp locations. AirSeal housing minimizes air leakage to less than 2CFM at 1.57 PSF (or 75PA), complies with Title 24, International Energy Conservation Code, and Washington State Energy Code (section 502.4) Frame provided with internal access door for inspection of junction box.
- Lower frame and top cover:** #23 ga. (.026 ") thick Galvanized steel. Accommodates ceilings up to 1" (25.4 mm) thick. Bottom cover provided with a .5" (6.2mm) lip and 4 embossed indicator lines to simplify alignment during installation. Housing can be locked into position on the mounting bars with locking screws.
- Junction box:** 2 1/2" (64mm) x 5 3/8" (137mm) x 2" (51mm) #21 ga. (.032") thick galvanized steel, cULus listed 90 degrees C rated supply conductors. Rated for branch circuit wiring supplying connected luminaires (daisy chaining).
- Mounting bars:** #16 ga. (.059") thick galvanized steel. Bars pivot for easy attachment and wire in from below the ceiling line. Bars can extend to accommodate 16" (406mm) to 24" (610mm) O.C. joist spacing. Bars can accommodate 12" (305mm) O.C. joist spacing after slight field modification. (see instruction sheet) Features integral self-tapping screw phillips/square drive screws for attachment to wood or metal construction. Attaches to T-bar ceilings without accessories. Bars installed on shortest dimension of frame can be easily rotated 90° from original position.
- Electronic dimming driver:** Class 2 electronic LED driver, RoHS compliant, suitable for damp location. 120/277v 50/06Hz >.9 power factor. MTP (module thermal protection) current cutback up to 10% to prevent overheating. Sound rating Class "A" (<24dB). Complies with FCC, CFR title 47 part 15 Class A for EMI/RFI. Dimming Protocol (0-10v). Dims to less than or equal to 10% of relative high output.
- Ceiling cutout:** 3 3/4" diameter.

## Electrical

Input voltage: 120/277, input freq.:50/60Hz. Input current .14A/.06A Input Power 16.4W. Power factor >.9

## Warranty

5 year limited warranty. (visit [philips.com/warranties](http://philips.com/warranties) for details)

## Labels

cULus listed suitable for damp location. AirSeal. Inherently Protected. IP rated.

This product complies with the requirements of the California Energy Commission regulated under Title 24, and has been listed in the Title 20 database. For 120V only.

## Energy Star

Product family has Energy Star certification with the following exception:  
• All 90 CRI options

## Title 24

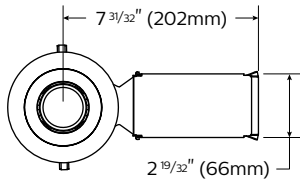
Product family has Title 24 certification with the following exception:  
• All 80 CRI options

# L3RD LyteCaster 3" Round

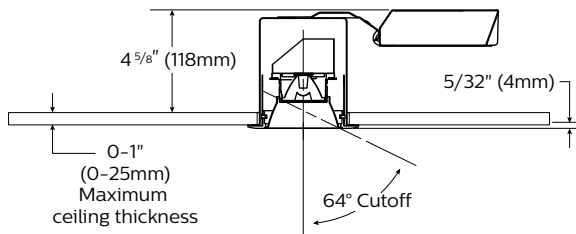
General purpose accent downlight, 800 lumens

## L3CE1 Non-IC Remodeler kit

Bottom view

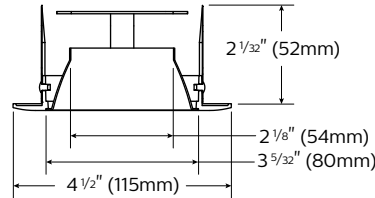


Side view

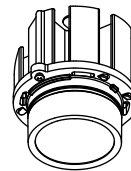


## Round trim

Side view



## Light engine



## Features

- Non-IC housing:** #25 ga. (.025") thick Galvanized steel. Provided with 2 plates steel retaining springs that can accommodate ceiling thickness up to 1" (25.4mm) thick. Philips screw driver required to tighten springs that secure housing to ceiling.
- Junction box:** #22 ga. (.034") thick Galvanized steel. cULus, suitable for damp locations. Junction box assembly swivels for tight plenum spaces. Snap off cover permits wiring access.
- Electronic dimming driver** (same as new construction): Class 2 electronic LED Driver, with less than 1 second start up, RoHS compliant, suitable for damp locations. 120v 50/60Hz >.9 power factor. Sound rating Class "A" (<24dB). Complies with FCC, CFR title 47 part 15 Class B for EMI/RFI. Dimmable with standard electronic low voltage (ELV) & Triac dimmers. Dims to less than or equal to 10% of relative high output. 5 year limited warranty.
- Trim compatibility:** Not compatible with adjustable trims except for L3RG series Gimbals.
- Ceiling cutout** 3 3/4" diameter.

## Electrical

Input voltage 120v, Input freq.: 50/60 hZ, Input current .25 amps, Input Power 12W, Power factor >.9

## Warranty

5 year limited warranty. (visit [philips.com/warranties](http://philips.com/warranties) for details)

## Labels

cULus listed suitable for damp location, inherently protected (IP rated).

This product complies with the requirements of the California Energy Commission regulated under Title 24, and has been listed in the Title 20 database.

## Energy Star

Product family has Energy Star certification with the following exception:  
• All 90 CRI options

## Title 24

Product family has Title 24 certification with the following exception:  
• All 80 CRI options

# L3RD LyteCaster 3" Round

General purpose accent downlight, 800 lumens

## Adjustment factors

### Color temperature (CCT)

2700K = 88%
3000K = 96%
3500K = 100%

### Color Rendering Index (CRI)

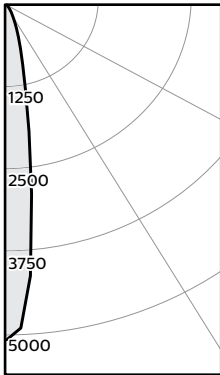
80 = 100%
90 = 85%
90 (CW) = 78%
Crisp White = 78%

### Finish

White Baffle (BW) = 100%
White Cone (DW) = 100%
Diffuse (DD) = 100%
Chrome (DC) = 102%

## Beam spread: Spot

### Candela Curves



Angle	Mean CP	Lumens
0	5073	
5	4120	316
10	1943	
15	935	276
20	519	
25	288	137
30	158	
35	80	54
40	36	
45	18	15
50	8	
55	5	5
60	3	
65	2	2
70	1	
75	1	1
80	1	
85	0	0
90	0	

Frame: L3NZ10U

Light engine: L308835S

Trim: L3RDD

Report no<sup>3</sup>: 539GFR

Output lumens:	796lm
Input Watts <sup>1</sup> :	11.8W
Beam angle:	17°
Spacing Criterion:	0.3

Efficacy:	67.4lm/W
CCT <sup>2</sup> :	3500K
CRI:	≥80

### Single unit data

Height to Lighted Plane	Initial Center Beam Foot-Candles	Beam Dia. (ft)*
5'	203	1.5'
6'	141	1.8'
7'	104	2.1'
8'	79	2.4'
9'	63	2.7'

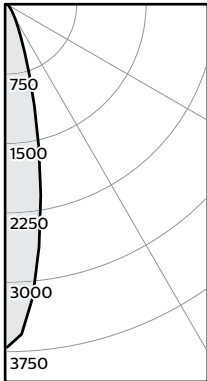
### Zonal lumens & percentages

Zone	Lumens	%Luminaire
0-30	720	90.5%
0-40	773	97.2%
0-60	793	99.6%
0-90	796	100.0%

\* Beam diameter is where foot-candles drop to 50% of maximum.

## Beam spread: Narrow flood

### Candela Curves



Angle	Mean CP	Lumens
0	3710	
5	3181	268
10	2094	
15	1139	321
20	557	
25	286	140
30	162	
35	90	58
40	48	
45	28	23
50	16	
55	8	8
60	5	
65	2	3
70	1	
75	1	1
80	0	
85	0	0
90	0	

Frame: L3NZ10U

Light engine: L308835NF

Trim: L3RDD

Report no<sup>3</sup>: 529GFR

Output lumens:	816lm
Input Watts <sup>1</sup> :	11.8W
Beam angle:	22°
Spacing Criterion:	0.4

Efficacy:	69.1lm/W
CCT <sup>2</sup> :	3500K
CRI:	≥80

### Single unit data

Height to Lighted Plane	Initial Center Beam Foot-Candles	Beam Dia. (ft)*
5'	148	2.0'
6'	103	2.4'
7'	76	2.8'
8'	58	3.2'
9'	46	3.6'

### Zonal lumens & percentages

Zone	Lumens	%Luminaire
0-30	724	88.7%
0-40	782	95.8%
0-60	812	99.6%
0-90	816	100.0%

\* Beam diameter is where foot-candles drop to 50% of maximum.

1. Wattage: controlled to within ± 10%

2. Correlated Color Temperature: within specs as defined in ANSI\_NEMA\_ANSI C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.

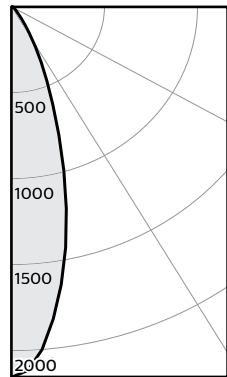
3. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.

# L3RD LyteCaster 3" Round

General purpose accent downlight, 800 lumens

## Beam spread: Flood

Candela Curves



Angle	Mean CP	Lumens
0	2166	180
5	2012	
10	1652	
15	1224	335
20	799	
25	481	225
30	271	
35	131	87
40	56	
45	25	21
50	12	
55	7	7
60	5	
65	2	3
70	1	
75	1	1
80	1	
85	0	0
90	0	

Frame: L3NZ10U

Light engine: L308835F

Trim: L3RDD

Report no<sup>3</sup>: 529GFR

Output lumens: 856lm  
 Input Watts: 11.8W  
 Beam angle: 33°  
 Spacing Criterion: 0.3

Efficacy: 72.5lm/W  
 CCT<sup>2</sup>: 3500K  
 CRI: ≥80

### Single unit data

Height to Lighted Plane	Initial Center Beam Foot-Candles	Beam Dia. (ft)*
5'	87	3.0'
6'	60	3.6'
7'	44	4.2'
8'	34	4.8'
9'	27	5.4'

### Zonal lumens & percentages

Zone	Lumens	%Luminaire
0-30	738	86.2%
0-40	824	96.3%
0-60	852	99.6%
0-90	856	100.0%

\* Beam diameter is where foot-candles drop to 50% of maximum.

1. Wattage: controlled to within ± 10%
2. Correlated Color Temperature: within specs as defined in ANSI\_NEMA\_ANSLG C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.
3. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.

## Electrical Specifications

Frame-in kit	Input volts	Input freq.	Input current	LED drive current	Input power	LED power	THD factor	Power factor
L3AE1	120V	50/60Hz	.090 A	260 ma	10.64 W	8.76 W	<20%	> .9
L3ANE1	120V	50/60Hz	.090 A	260 ma	10.64 W	8.76 W	<20%	> .9
L3CE1	120V	50/60Hz	.090 A	260 ma	10.64 W	8.76 W	<20%	> .9
L3NZ10U	120V	50/60Hz	.102 A	260 ma	11.8 W	9.74 W	<10%	> .8
	277V	50/60Hz	.047 A	260 ma	11.8 W	8.90 W	<10%	> .8

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