LIGHTOLIER
by signify

Downlighting

LyteCaster LED 3" Accent

L3RA Round Adjustable

Project:

Location:

Cat.No:

Type:

Qty:

Notes:

Lightolier LyteCaster LED Accent Adjustable features a 3.5" luminaire height that conserves plenum space without compromising the 35° angular tilt. The modular and interchangeable light engine allows for an easy future upgrade. The accent adjustable is damp location listed and comes in 3 standard finish options.

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

Frame

example: **L3AE1**

Series	Installations	Dimming	Voltage
L3			
L3 LyteCaster 3" Accent	**A** AirSeal IC, New Construction (screw) **AN** AirSeal IC, New Construction (nail)	**E** ELV/Triac	**1** 120V
	N New construction (Non-IC)	**Z10** 0-10V	**U** Universal (120-277V)

Light engine

example: **L308930NF**

Series	Lumens	CRI/CCT	Beam
L3	08		
L3 LyteCaster 3" Accent	**08** 800lm	**927** 90 CRI / 2700K **930** 90 CRI / 3000K **935** 90 CRI / 3500K **940** 90 CRI / 4000K	**S** Spot, 17° **NF** Narrow flood, 22° **F** Flood, 30°
		9CW30 90 CRI / 3000K Crisp White **9PW30** 90 CRI / 3000K Premium White **9PC30** 90 CRI / 3000K Premium Color	

Round trim

example: **L3RAD**

Series	Shape	Style	Finish	Flange
L3	R			
L3 LyteCaster 3" Accent	**R** Round	**A** Adjustable	**C** Chrome cone **D** Diffuse cone **W** White cone	**blank** White
		AB Adjustable baffle	**W** White baffle	**blank** White

Accessories

example: **L3AHW**

Series	Type	Beam	Finish
L3			
L3 LyteCaster 3" Accent	**AH** Accessory holder	–	**W** White **B** Black
	LS Linear lens spread film (accessory holder required) **SD** 5° soft diffusion film (accessory holder required)		–
	RP Replacement Optic	**S** Spot, 17° **NF** Narrow flood, 22° **F** Flood, 30°	–

DAMP LOCATION · IC INSULATION CONTACT · c UL us LISTED · RoHS COMPLIANT

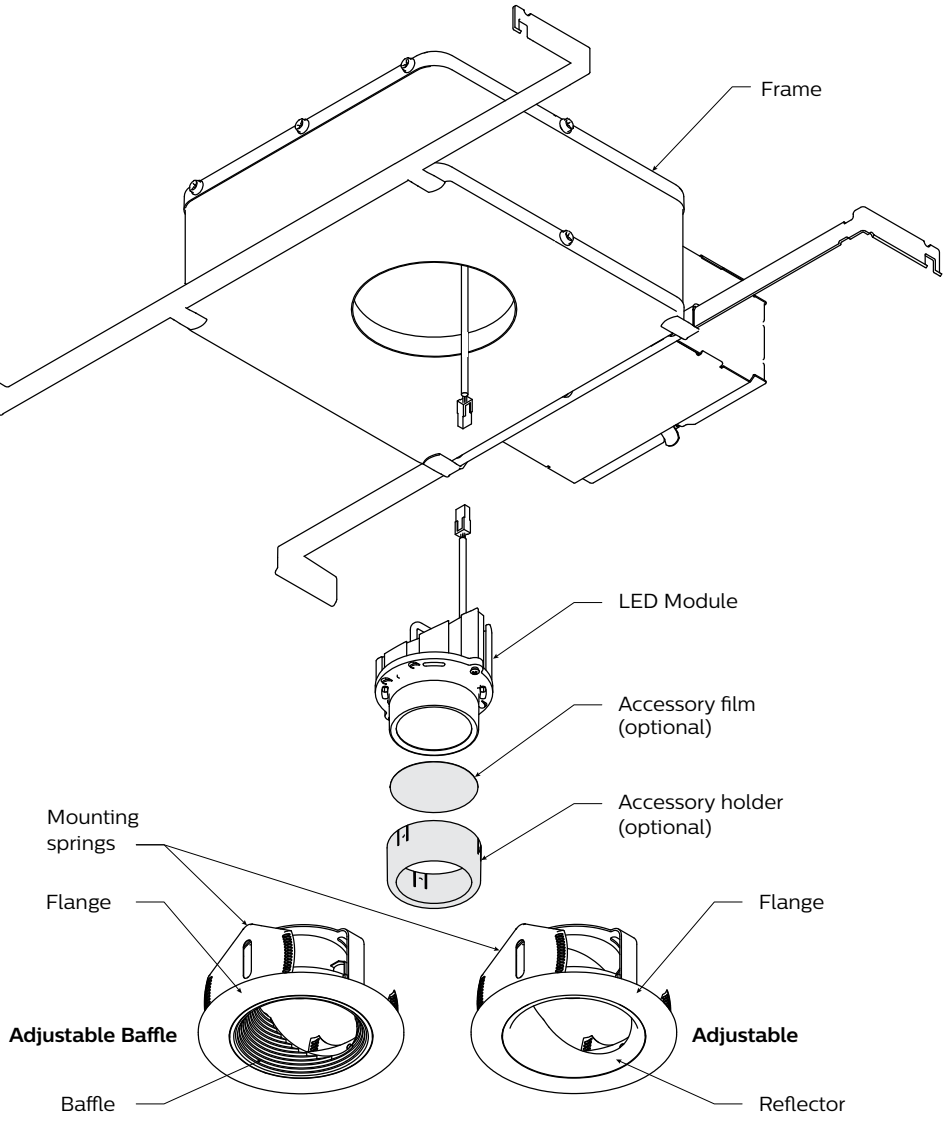
L3RA LyteCaster LED 3" Accent

Round Adjustable

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: 0.010 thick Linear spread 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.

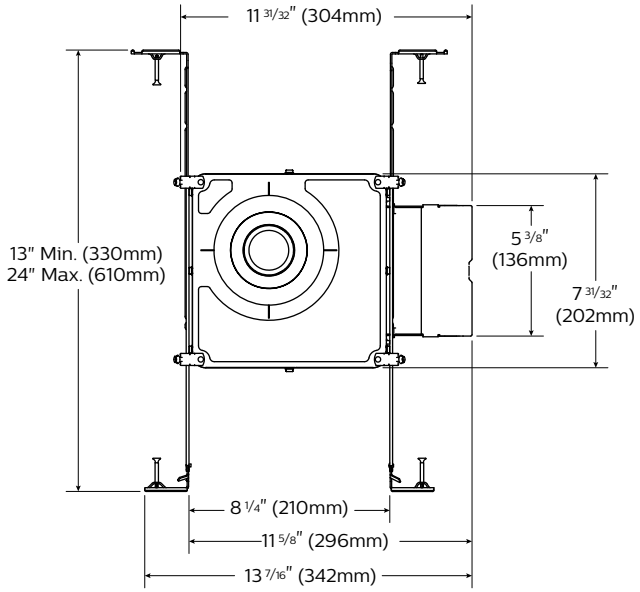


L3RA LyteCaster LED 3" Accent

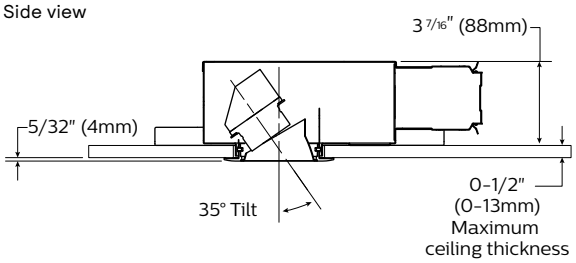
Round Adjustable

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

Bottom view

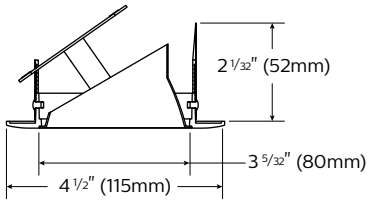


Side view

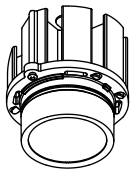


Round trim

Side view



Light engine



Features

1. **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 Conversation Code, and Washington State Energy Code (Section 502.4). This helps reduces heat loss and condensation in ceiling. Internal access door for inspection of junction box.
2. **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 0.5" (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.
3. **Junction box:** 2 ½" (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).
4. **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.
5. **Electronic dimming driver:** Class 2 electronic LED Driver, with less than 1 second start up, RoHS compliant, suitable for damp locations. 120v 50/06Hz >0.9 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.
6. **Ceiling cutout:** 3 ¾" diameter.
7. **Optics**
   - **Standard:** 3SDCM fixture-to-fixture color match.
   - **Crisp White (CW30):** Available in 90CRI / 3000K only, our 90CRI CrispWhite technology combines the warm, saturated colors of high CRI with crisp and vibrant whites. The small form factor and high quality of light make this an impactful option for retail display areas.
   - **Premium White (PW30):** Available in 90CRI/3000K only, the new benchmark in retail fashion, delivering stronger, brighter whites via the best technology in the market, but with minimal compromise on energy savings.
   - **Premium Color (PC30):** Available in 90CRI/3000K only, provides vivid and robust colors that pop while maintaining a strong ambient white and bold black balance in any space. This LED technology is sure to add positive energy to varying application needs.

Electrical

Input voltage: 120V
Input frequency: 50/60 hz
Input current: 0.25 amps
Input Power: 12W
Power factor: >0.9

Labels

cULus type IC listed suitable for damp locations.

AirSeal - Rated for installation in insulated ceilings. Air-tite rated per ASTM E283.

Compliant to California Title 24 JA8, and certified to the Title 20 appliance database. E1 frames only.

Warranty

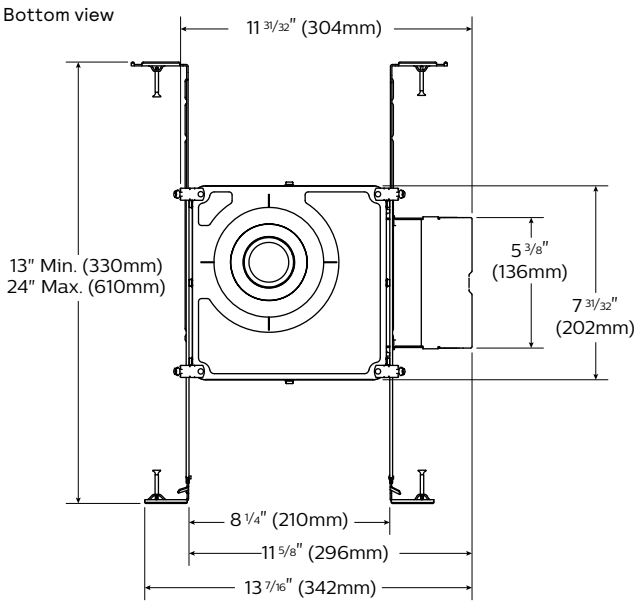
5 year limited warranty

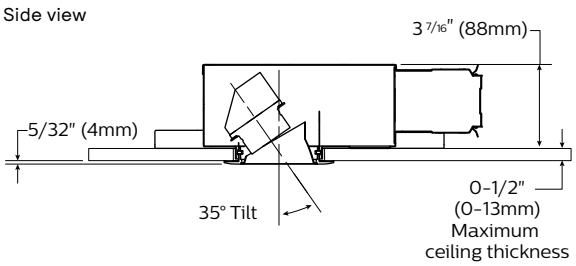
Visit Signify.com/warranties for more information on Signify's standard 5-year limited warranty on complete luminaire systems.

L3RA LyteCaster LED 3" Accent

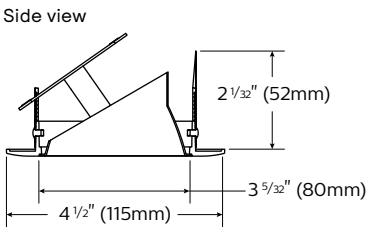
Round Adjustable

L3NZ10V New construction Non-IC 0-10V frame-in kit

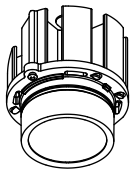




Round trim



Light engine



Features

1. **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 Conversation Code, and Washington State Energy Code (section 502.4) Frame provided with internal access door for inspection of junction box.
2. **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.
3. **Junction box:** 2 ½" (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).
4. **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.
5. **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.
6. **Ceiling cutout:** 3 ¾" diameter.

Electrical

Input voltage: 120/277V
Input frequency: 50/60 hz
Input current: 0.14/0.06 amps
Input Power: 16.4W
Power factor: >0.9

Labels

cULus type IC listed suitable for damp location.

AirSeal - Rated for installation in insulated ceilings. Air-tite rated per ASTM E283.

Warranty

5 year limited warranty

Visit Signify.com/warranties for more information on Signify's standard 5-year limited warranty on complete luminaire systems.

L3RA LyteCaster LED 3" Accent

Round Adjustable

AccuRender Technology (CRI 90+)

The right light brings colors to life. Our new AccuRender technology helps ensure colors are rendered more accurately and consistently, while doing so as efficiently as CRI 80 products.

Standard CRI 80

Good color rendering and high efficacy

Standard CRI 90

Better color rendering and low efficacy

AccuRender

Best color rendering, color preference and high efficacy

Enjoy design flexibility

Full range of products and options:

- Available soon in across Lightolier portfolio for application flexibility
- Multiple color temperatures (CCTs) and lumen packages offered

Promote savings

High efficacy, with no penalty:

- Energy efficacy compares well to conventional 80 CRI
- Up to 25% more energy savings vs competitor 90 CRI[1]
- Helps meet Title 24 requirements

Show your true colors

High color rendering:

- True to life colors to help energize your environment and render better flesh tones critical for healthcare hospitality and retail applications.
- R_a up to 94 CRI
  R_9 up to 67 CRI
  G_a up to 99 CRI
  C_9 up to 94 CRI
- R_f up to 92 TM-30
  $R_{f,h1}$ up to 91 TM-30
  R_9 up to 100 TM-30
  $R_{cs,h1}$ up to -5% TM-30

Achieve color balance

Best in class color consistency:

- Promote aesthetic harmony in your space with ≤ 2 SDCM

Electrical Specifications

Frame-in kit	Input Volts	Input Frequency	Input Current	LED Drive Current	Input Power	LED Power	THD Factor @ Max Load	Power Factor @ Max Load
L3AE1	120V	50/60Hz	0.075A	0.22A	9.0W	7.4W	<15%	>0.9
L3ANE1	120V	50/60Hz	0.075A	0.22A	9.0W	7.4W	<15%	>0.9
L3CE1	120V	50/60Hz	0.075A	0.22A	9.0W	7.4W	<15%	>0.9
L3NZ10U	120V	50/60Hz	0.073A	0.22A	8.8W	7.4W	<10%	>0.9
	277V	50/60Hz	0.033A	0.22A	9.0W	7.4W	<10%	>0.9
L3CZ10U	120V	50/60Hz	0.081A	0.22A	9.7W	7.4W	<10%	>0.9
	277V	50/60Hz	0.035A	0.22A	9.7W	7.4W	<10%	>0.9

Dimming Compatibility

Philips Sunrise: **SR1200ZTUNV**
Leviton Illumatech: **IPX06**
Leviton Decora: **6615-P**, **6633-P**
Lutron Diva: **DVLEV-303P**
Lutron Skylark: **SLEV-300P**
Lutron Maestro: **MAELV-600**, **MAW-600**

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.

L3RA LyteCaster LED 3" Accent

Round Adjustable

Photometry (1000lm)

Download Round 3" IES Files

Download REVIT files & BIM files

Beam Spread	Color Temp (CCT)	Flux (lm)	Power (W)	Efficacy (lm/W)	CRI	R9	Beam Angle	Field Angle	Spacing Criterion	UGR
Spot (S)	2700K	804	8.9	90.6	92	54	17°	41°	0.309	4.6
	3000K	840	8.9	94.7	92	54	17°	41°	0.309	4.8
	3500K	840	8.9	94.4	92	54	17°	41°	0.309	5.0
	4000K	899	8.9	101.4	92	54	17°	41°	0.309	5.0
	Crisp White	640	8.9	72.2	92	54	17°	41°	0.309	3.8
	Premium White	852	8.9	96.1	92	54	17°	41°	0.309	4.8
	Premium Color	777	8.9	87.6	92	54	17°	41°	0.309	4.6
Narrow Flood (NF)	2700K	833	8.9	93.6	92	53	22°	44°	0.387	4.2
	3000K	871	8.9	97.8	92	53	22°	44°	0.387	4.4
	3500K	871	8.9	97.8	92	53	22°	44°	0.387	4.5
	4000K	932	8.9	104.7	92	53	22°	44°	0.387	4.6
	Crisp White	664	8.9	74.6	92	53	22°	44°	0.387	3.4
	Premium White	883	8.9	99.2	92	53	22°	44°	0.387	4.4
	Premium Color	805	8.9	90.5	92	53	22°	44°	0.387	4.1
Flood (F)	2700K	868	8.9	97.7	92	53	34°	64°	0.571	5.4
	3000K	907	8.9	102.0	92	53	34°	64°	0.571	5.6
	3500K	907	8.9	101.9	92	53	34°	64°	0.571	5.7
	4000K	971	8.9	109.2	92	53	34°	64°	0.571	5.8
	Crisp White	691	8.9	77.8	92	53	34°	64°	0.571	4.8
	Premium White	920	8.9	103.5	92	53	34°	64°	0.571	5.6
	Premium Color	839	8.9	94.4	92	53	34°	64°	0.571	5.4

1. Luminaire photometry has been conducted in accordance with IES LM-79-08. IES files can be downloaded by clicking the links in the table above, or online at lightolier.com.
2. Crisp White, Premium White and Premium Color - 3000K results.
3. Color Rendering Index (CRI Ra) and Strong Red (R_9) are calculated in accordance with CIE 013.3-1995.

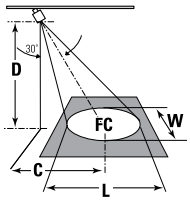
L3RA LyteCaster LED 3" Accent

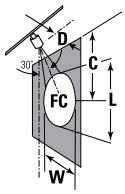
Round Adjustable

Aiming angles

L and **W** are the outer points where the candle power drops to 50% of the maximum. **FC** are the initial footcandles at the center of the beam. Data shown is for 3000K, use the table on the right for CRI/CCT adjustment factors.

FC	Footcandles
L	Beam length
W	Beam Width
D	Distance
A	Aiming Angle
C	Distance to center beam
CBCP	Center Beam Candlepower

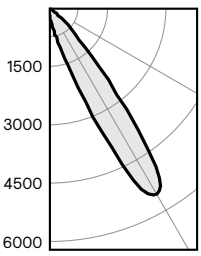




Adjustment Factors

CCT	
2700K:	91%
3000K:	95%
3500K:	100%
4000K:	102%
CW30:	73%
PW30:	97%
PC30:	88%

Candela Curve



Frame: **L3NZ10U**
Engine: **L308935S**
Trim: **L3RAD**

Output lumens:	842 lms
Input watts[1]:	8.9 W
CRI:	90 min
CCT[2]:	3500 K
CBCP:	5,509 cd
Beam Angle:	17°

Efficacy: **94.6 lm/w**
Report[3]: L308935S-L3RAD.ies

Spot, 800lm engine, 95lm/W at 9W

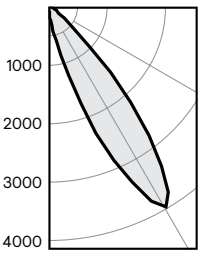
30° Horizontal Aiming

Distance			Beam	
D	C	F.C.	L	W
6	3.5	99	2.4	2.1
8	4.6	56	3.2	2.8
10	5.8	36	4.0	3.5
12	6.9	25	4.8	4.1

30° Vertical Aiming

Distance			Beam	
D	C	F.C.	L	W
2	3.5	172	2.6	1.2
3	5.2	77	3.8	1.8
4	6.9	43	5.1	2.4
5	8.7	28	6.4	3.0

Candela Curve



Frame: **L3NZ10U**
Engine: **L308935NF**
Trim: **L3RAD**

Output lumens:	848 lms
Input watts[1]:	8.9 W
CRI:	90 min
CCT[2]:	3500 K
CBCP:	3,932 cd
Beam Angle:	23°

Efficacy: **95.3 lm/w**
Report[3]: L308935NF-L3RAD.ies

Narrow Flood, 800lm engine, 95lm/W at 9W

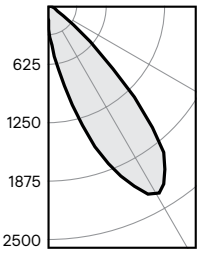
30° Horizontal Aiming

Distance			Beam	
D	C	F.C.	L	W
6	3.5	71	3.3	2.8
8	4.6	40	4.4	3.8
10	5.8	26	5.5	4.7
12	6.9	18	6.6	5.6

30° Vertical Aiming

Distance			Beam	
D	C	F.C.	L	W
2	3.5	123	3.7	1.6
3	5.2	55	5.6	2.4
4	6.9	31	7.4	3.3
5	8.7	20	9.3	4.1

Candela Curve



Frame: **L3NZ10U**
Engine: **L308935F**
Trim: **L3RAD**

Output lumens:	872 lms
Input watts[1]:	8.9 W
CRI:	90 min
CCT[2]:	3500 K
CBCP:	2,311 cd
Beam Angle:	31°

Efficacy: **98.0 lm/w**
Report[3]: L308935F-L3RAD.ies

Flood, 800lm engine, 98lm/W at 9W

30° Horizontal Aiming

Distance			Beam	
D	C	F.C.	L	W
6	3.5	42	4.6	3.8
8	4.6	23	6.1	5.1
10	5.8	15	7.6	6.4
12	6.9	10	9.1	7.7

30° Vertical Aiming

Distance			Beam	
D	C	F.C.	L	W
2	3.5	72	5.8	2.2
3	5.2	32	8.7	3.3
4	6.9	18	11.5	4.4
5	8.7	12	14.4	5.5

1. Wattage: controlled to within 5%.
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.

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