





Downlighting

LyteCaster

5" Round downlight 1000 Lumens

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

Philips Lightolier LyteCaster LED Downlights feature a 3.5" luminaire height that conserves plenum space without compromising the 70° physical and reflected cutoff. The modular and interchangeable light engine allows for an easy future upgrade. The downlight is wet location listed and comes in 3 standard options.

Complete product = Frame-in kit + Adjustable light engine / Trim Order each separately

Ordering guide: Frame-In kit

Example: L5RAE1VA

Series	Frame type	Dimming	Input voltage	Version
L5R				VA
L5R LyteCaster 5" Round	A AirSeal IC, New Construction, Screw	E ELV dimming	1 120V	VA Version A ¹
	AN AirSeal IC, New Construction, Nail	Z10 O-10V	U Universal	

Ordering guide: Light engine

Example: L5R10827VA

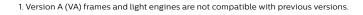
Series L5R	Lumens 10	CRI	сст	Version VA
L5R LyteCaster 5" Round	10 1000	8 80	27 2700K 30 3000K 35 3500K 40 4000K	VA Version A ¹
		9 90	27 2700K	

Note: Lumen output is calculated based on 80 CRI and 3500K CCT. Please consult adjustment factors table on page 4 for other lumen outputs.

Ordering guide: Trim

Example: L5RDW

Series L5R	Luminaire type	Finish
L5R LyteCaster 5" Round	D Open Downlight	D Clear diffuse (with white flange) W White (with white flange)
	B Baffle Downlight	W White (with white flange)





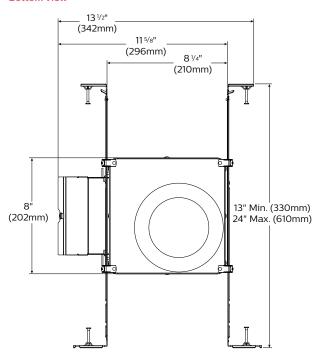


L5R LyteCaster 5" Round

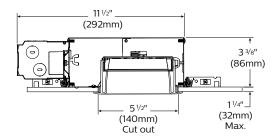
General purpose downlight, 1000 lumens

Frame-in kit

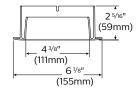
Bottom view



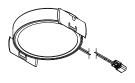
Side view



Downlight trim



Light engine



Features

- 1. Housing: .026" galvanized steel. UL listed for direct contact with thermal insulation. 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 reduces heat loss and condensation in ceiling. Access door for inspection of junction box.
- 2. Lower frame and top cover: .026" galvanized steel.
 Accommodates ceilings up to 1 1/4" (32mm) thick. 3/8" (9.5mm) deep integral lip with four notches at 90° apart to simplify alignment. Locks into position along length of mounting bars with locking screws.
- 3. Junction Box: 2.5" X 5 3/8" X 2" (27 cu. in) .032" galvanized steel. UL listed 90 * supply conductors. Rated for branch circuit wiring supplying connected luminaires (daisy chaining).

- 4. **Retaining clips**: Permit easy and fast installation of light engine/trim.
- 5. Mounting bars: .059" galvanized steel. Bars pivot for easy attachment and wire-in below ceiling line. Bars extend to accommodate 16" (406mm) to 24" (610mm) O.C. joist spacing. Bars can accommodate 12" (305mm) O.C. joist spacing after a slight field modification (see Instruction sheet). Features integral self tapping phillips/ square drive screws for secure attachment to wood or metal. construction. Also available with integral nails. Attaches to T-bar ceilings without the need of accessories. Bars installed on shortest dimension of frame, but can be easily repositioned 90 degrees from original position.
- Driver: ELV: 120V, 50/60Hz.
 RoHS compliant, Class 2 power supply. Complies with FCC rules per Title 47 Part 15 (Class B) for EMI/RFI (conducted & radiated). Class A sound rating.

 O-10V: 120/277V, 50/60Hz.
 RoHS compliant, Class 2 power supply. Complies with FCC rules per Title 47 Part 15 (Class A) for EMI/RFI (conducted & radiated). Class A sound rating.
- 7. **Ceiling cutout:** 5 ½" (140mm).

Options and Accessories

For fire rated box accessory, use Fireline:

16FR2X10	16" on center 2x10 construction
16FR2X6	16" on center 2x6 construction

See Fireline spec sheets for more information.

Electrical

Lifetime: Expected lifetime 50,000 hours and backed by a 5-year warranty. (see Philips.com/warranties for details)

Recommended dimmers

See LED-DIM Specification Sheet.

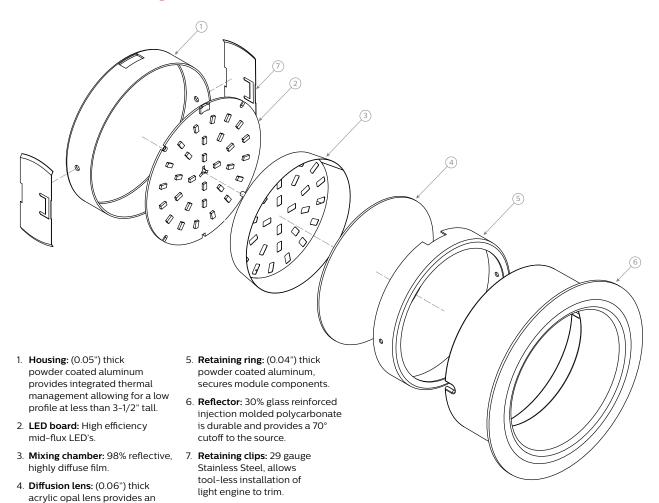
Labels

cULus Listed Type I.C., frames are suitable for damp location. Trims are cULus suitable for wet location (no shower lens unit required). Complies with Air Leakage.

L5R LyteCaster 5" Round

General purpose downlight, 1000 lumens

Reflector: Round downlight



Electrical

even source of illumination.

Screw / Nail Frame-in kit Electrical specifications	Input volts	Input freq.	Input current	LED drive current	Input power	LED power	THD factor	Power factor
L5RAE1VA	120V	50/60Hz	0.10A	260mA	12W	10W	<20%	>0.9
L ED A 740111/A	120V	50/60Hz	0.11A	260mA	13W	11W	<10%	>0.9
L5RAZ10UVA	277V	50/60Hz	0.06A	260mA	13W	11W	<15%	>0.9

L5R LyteCaster 5" Round

General purpose downlight, 1000 lumens

80 CRI, 1000 lumens

200 -400

Angle	Mean CP	Lumens
0	546	
5	541	51
10	529	
15	515	145
20	490	
25	459	212
30	429	
35	385	241
40	340	
45	289	222
50	236	
55	184	165
60	135	
65	91	93
70	63	40
75 80	45	48
85	28 12	13
90	0	13
50	U	

Frame: L5RAE1VA Light engine: L5R10835VA Trim: L5RDW

11.6 W

Output lumens:

Spacing Criterion: 1.2

Input Watts1:

Efficacy: 102.6 lm/W CCT²: 3500 K CRI: ≥80

Report no3: 685GFR

Single unit data

Height to Lighted Plane	Initial Center Beam Foot-Candles	Beam Dia. (ft)*
5′	22	6.0′
6'	15	7.2'
7'	11	8.4'
8'	9	9.6'
9'	7	10.8'

^{*} Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

Spacing on center	Initial Center Beam Foot-Candles	Watts per Sq. Ft.
5'	49.5	0.51
6'	32.5	0.34
7'	23.2	0.24
8'	19.3	0.20
9'	15.5	0.16

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Coefficients of utilization

Ceiling 80%		70	70%		50%		30%					
Wall		70	50	30	10	50	10	50	10	50	10	0
RCR		Zona	al cav	ity m	etho	d - Ef	fectiv	e flo	or ref	lecta	nce =	20%
	0	119	119	119	119	116	116	111	111	106	106	100
	1	110	106	102	99	104	97	99	94	96	91	87
ţ	2	101	94	88	83	92	82	89	80	85	78	74
Ra	3	93	84	76	70	82	70	79	69	77	67	64
Cavity Ratio	4	86	75	67	61	74	60	71	60	69	59	56
₹	5	80	68	59	53	67	53	65	52	63	52	49
Ü	6	74	61	53	47	60	47	59	47	57	46	44
Room	7	69	56	48	42	55	42	54	42	52	41	39
00	8	64	51	43	38	51	38	49	38	48	37	35
~	9	60	47	40	34	47	34	46	34	45	34	32
	10	56	44	36	31	43	31	42	31	41	31	29

Zonal lumens & percentages							
Zone	Lumens	%Luminaire					
0-30	408	3/1 3%					

54.5%

100.0%

649

1036

0-40

0-60

,	
90CRI 2700K: = 0.71	
80CRI 2700K: = 0.89	
80CRI 3000K: = 0.97	
80CRI 3500K: = 1.00	

CRI and CCT

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Philips Lighting, North America Corporation 200 Franklin Square Drive, Somerset, NJ 08873 Tel. 855-486-2216

Philips Lighting Canada Ltd. 281 Hillmount Rd, Markham, ON, Canada L6C 2S3 Tel. 800-668-9008

^{1.} Wattage: controlled to within \pm 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.