





Qty:

Downlighting

LyteCaster

5" Round adjustable 1000 Lumens

Philips Lightolier LyteCaster LED Adjustable Downlights are a low cost solution for slope ceiling and wall washing applications that features a 30° tilt. The shallow 3.5" luminaire height conserves the plenum space and is damp location listed. The modular and interchangeable light engine/trim allows for an easy future upgrade.

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

Ordering guide: Frame-In kit Example: L5RAE1VA

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

Ordering guide: Adjustable light engine / Trim

Example: L5RA10827WVA

Project:

Location:
Cat.No:
Type:

Lamps:

Notes:

| Series L5RA | Lumens 10 | CRI | ССТ | Finish | Version VA |
|--|----------------|-------------|--|------------------------------------|----------------------------------|
| L5RA LyteCaster 5" Round adjustable | 10 1000 | 8 80 | 27 2700K 30 3000K 35 3500K 40 4000K | W White (with white flange) | VA Version A ¹ |
| | | 9 90 | 27 2700K | W White (with white flange) | |

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



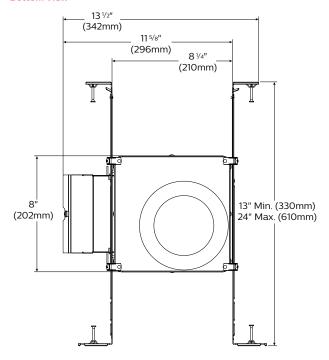


L5RA LyteCaster 5" Round adjustable

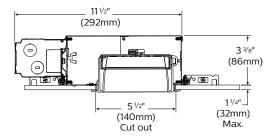
General purpose downlight, 1000 lumens

Frame-in kit

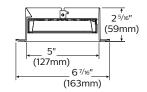
Bottom view



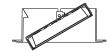
Side view



Adjustable light engine/trim



Maximum tilt: 30



Features

- 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).

- 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.

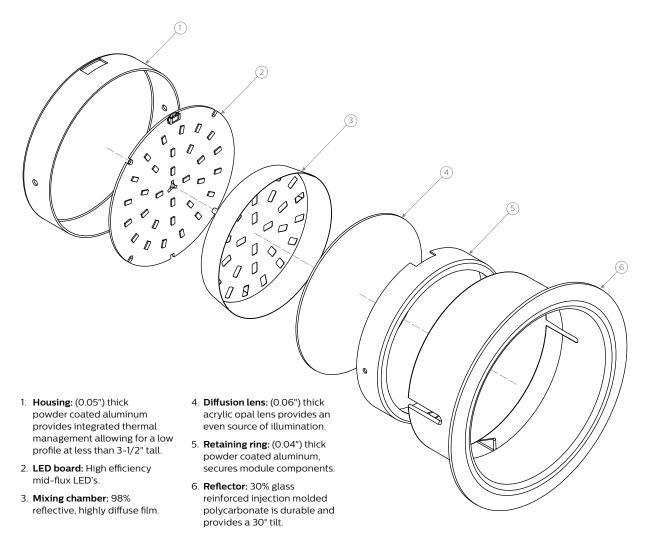
Labels

cULus Listed Type I.C., frames are suitable for damp location. Trims are cULus suitable for damp location. Complies with Air Leakage.

L5RA LyteCaster 5" Round adjustable

General purpose downlight, 1000 lumens

Reflector: Round adjustable



Electrical

| 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 |
| L5RAZ10UVA | 120V | 50/60Hz | 0.11A | 260mA | 13W | 11W | <10% | >0.9 |
| LSRAZIOUVA | 277V | 50/60Hz | 0.06A | 260mA | 13W | 11W | <15% | >0.9 |

L5RA LyteCaster 5" Round adjustable

General purpose downlight, 1000 lumens

80 CRI, 1000 lumens (downlight photometry shown)

Candela Curves 200 400 600

| Angle | Mean CP | Lumens |
|----------|------------|--------|
| 0 | 546 | |
| 5 | 541 | 51 |
| 10 | 529 | |
| 15 | 515 | 145 |
| 20 | 490 | |
| 25 | 459 | 212 |
| 30 | 429 | 2.41 |
| 35 40 | 385 340 | 241 |
| 45 | 289 | 222 |
| 50 | 236 | 222 |
| 55 | 184 | 165 |
| 60 | 135 | .05 |
| 65 | 91 | 93 |
| 70 | 63 | |
| 75 | 45 | 48 |
| 80 | 28 | |
| 85 | 12 | 13 |
| 90 | 0 | |
| | | |

Frame: L5RAE1VA Light engine: L5R10835VA Trim: L5RDW

11.6 W

Input Watts1:

Spacing Criterion: 1.2

Report no3: 685GFR

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

Single unit data

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

^{*} 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

| Ceili | ng | 80% | | 70% | | 50% | | 30% | | 0% | | |
|--------------|----|------|--|-----|-----|-----|-----|-----|-----|-------|-------|-----|
| Wall | | 70 | 50 | 30 | 10 | 50 | 10 | 50 | 10 | 50 | 10 | 0 |
| RCR | | Zona | Zonal cavity method - Effective floor reflecta | | | | | | | 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 |
| ţį | 2 | 101 | 94 | 88 | 83 | 92 | 82 | 89 | 80 | 85 | 78 | 74 |
| æ | 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 |
| 2 | 5 | 80 | 68 | 59 | 53 | 67 | 53 | 65 | 52 | 63 | 52 | 49 |
| ΰ | 6 | 74 | 61 | 53 | 47 | 60 | 47 | 59 | 47 | 57 | 46 | 44 |
| Ε | 7 | 69 | 56 | 48 | 42 | 55 | 42 | 54 | 42 | 52 | 41 | 39 |
| Room | 8 | 64 | 51 | 43 | 38 | 51 | 38 | 49 | 38 | 48 | 37 | 35 |
| œ | 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

| 0-30 408 34.3% 0-40 649 54.5% 0-60 1036 87.1% | Zone | Lumens | %Luminaire |
|---|------|--------|------------|
| 0-90 1190 100.0% | 0-40 | 649 | 54.5% |
| | 0-60 | 1036 | 87.1% |

CRI and CCT adjustment factors

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

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^{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.