

Laser 17

RECESSED DOWNLIGHT - HOUSING TITLE 24, JA8

Type:

Project :

SPECIFICATION SHEET

Page: 1 of 5

Laser is a collection of recessed downlights for architectural applications. Excellent build quality with features for the most demanding professional applications. Available in 4 apertures with complete light distributions offering with fixed optics. Generous light outputs with excellent chromatic performance and enhanced visual comfort (UGR<16).

Luminaire characteristic:

Power input: 3W (system wattage)

Lumens: 80lm (for 3000K, 90CRI)

Luminaire efficacy: 57lm/W

Source:

COB LED module (LM-80)

2700K: 90CRI,

3000K: 90CRI,

3500K: 90CRI,

4000K: 90CRI.

Lumen maintenance:

80% of initial lumens at 100 000 hours (L80) (LM-79).

Optic:

Fixed: Deep recessed reflector available with spot optic.

Visual comfort: UGR < 16

Material:

Body: Die-cast aluminum optical assembly

Optic: PMMA lens

Baffle: Painted thermoplastic

Mounting:

New construction with housing suitable for insulated ceiling, Chicaco plenum and airtight installations.

Electrical:

High efficiency LED driver, rated at 50 000 hours. See remote LED driver options on page 3.

Finish:

Powder coated body and painted metallized baffle. See page 2 for complete offering.

Weight:

0.07lb (0.03kg).

Warranty:

5 year limited warranty.

Rating:

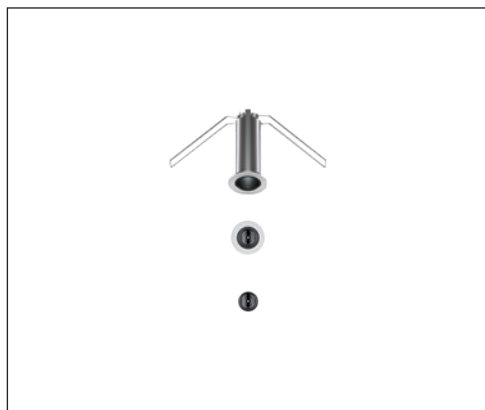
IP20, IP43 (visible parts once installed)

Certification:



cULus listed for damp location. Interior use only.

Title 24-JA8-2019 high efficiency luminaire. Airtight luminaire less than 2 cfm leakage @1.57PSI per ASTM E283. To confirm which versions are certified, please consult the product list: <https://cacertappliances.energy.ca.gov/Pages/Search/AdvancedSearch.aspx>



ORDERING INFO

ILAS17 R T AT - - SCF SP - REM -

FIXTURE

BI - LAS17 R T - AT

INSTALLATION

SHAPE

☒ **R** - Round

MOUNTING

☒ **T** - Trim

INSTALLATION

☒ **AT** - Airtight housing⁽¹⁾

LED

☐ **927** - 2700K, 90CRI

☐ **930** - 3000K, 90CRI

☐ **935** - 3500K, 90CRI

☐ **940** - 4000K, 90CRI

ORIENTATION

☒ **SCF** - Super comfort fixed

OPTIC

☒ **SP** - Spot 14°

VOLTAGE

☒ **REM** - Remote

FINISH (trim finish / baffle finish)

☐ **01** - White / black

☐ **02** - Black / black

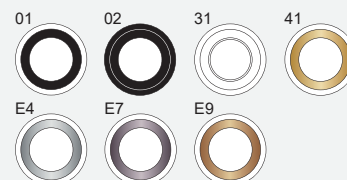
☐ **31** - White / white

☐ **41** - White / gold⁽²⁾

☐ **E4** - White / chrome⁽²⁾

☐ **E7** - White / black chrome⁽²⁾

☐ **E9** - White / gold matte⁽²⁾



⁽¹⁾ Airtight luminaire less than 2 cfm leakage @1.57PSI per ASTM E283.

⁽²⁾ May require a longer lead time than standard. Please contact customer service for details.

REMOTE LED DRIVER OPTIONS (TO BE ORDERED SEPARATELY)

ILAS17 • FIXED • 1.4W*

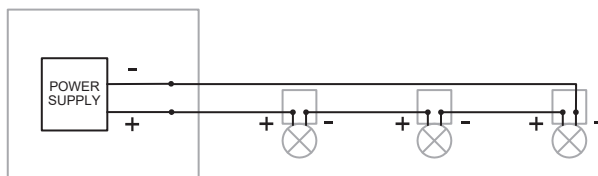
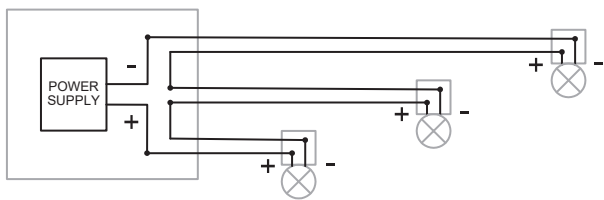
| Min-max units | Watts | Voltage | Dimming protocol | Dimming range | Connection box dimensions | Max distance** | Connection box |
|---------------|-------|----------|---|---------------|-------------------------------------|----------------|--|
| 4-12 | 20 | 120-277V | Lutron Hi Lume® 0.1% EcoSystem™ (Soft-on, Fade to Black) | Down to ±0.1% | 6" x 4" x 3" (152 x 102 x 76mm) | 35ft (10m) | 4444-0500-020-UNV-D2 <input type="checkbox"/> |
| 1-11 | 20 | 120-277V | 0-10V ELDOLED ECOdrive | Down to ±1% | 8" x 8" x 4" (203 x 203 x 102mm) | 118ft (36m) | 4450-0500-020-UNV-ED10 <input type="checkbox"/> |
| 11-13 | 21 | 120-277V | 0-10V | Down to ±10% | 8" x 8" x 4" (203 x 203 x 102mm) | 30ft (9m) | 4450-0500-021-UNV-D10 <input type="checkbox"/> |
| 1-16 | 27 | 120-277V | 0-10V ELDOLED SOLOdrive | Down to ±0.1% | 8" x 8" x 4" (203 x 203 x 102mm) | 118ft (36m) | 4450-0500-027-UNV-SD10 <input type="checkbox"/> |

* Wattage requirement for one fixture (remote fixture only).

** Calculated for 16AWG cable. Contact customer service for longer remote distance.

WIRING DIAGRAMS

Multiple luminaires must be connected in series
(home run or fixture chain)



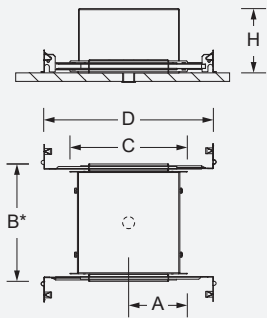
INSTALLATION

New construction with housing suitable for insulated ceiling.

Housing with hanger bars system for new construction installations.
Suitable for insulated ceiling ,chicago plenum and airtight applications.
Housing can be shipped separately.

Ceiling thickness: 1/8" - 1 3/8" (3 - 35mm)

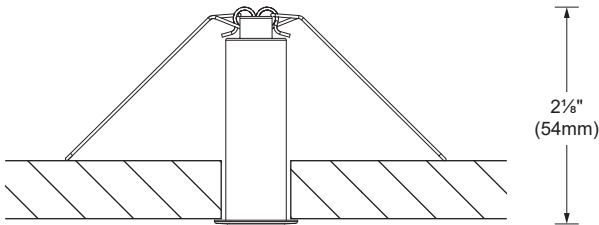
Certification: Airtight housing (AT) certified less than 2 cfm leakage
@ 1.57PSI per ASTM E283.



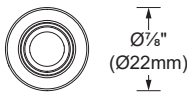
*Provide a minimum of 1 1/4" (46mm) on each side for the hanger bar fixations

| Model | Housing | Cut-out dimensions | Cut-out position (A) | Overall dimensions (BxC) | Hanger bars (D) | Clearance (H) |
|----------|---------------|--------------------|----------------------|-------------------------------|-------------------------------|---------------|
| LASER 17 | BI-LAS17RT-AT | Ø 1 1/16" (Ø 17mm) | 3 1/16" (93mm) | 7 3/8" x 7 3/8" (186 x 186mm) | 14 1/4" to 26" (362 to 660mm) | 4" (102mm) |

DIMENSIONS



FRONT VIEW



BOTTOM VIEW

LED COLOR FIDELITY DATA

| CRI | CCT | R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 | Rf | Rg | Melanopic ratio |
|-----|-------|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|----|-----|-----------------|
| 90 | 2700K | 94 | 94 | 91 | 93 | 93 | 92 | 93 | 88 | 70 | 84 | 94 | 82 | 94 | 94 | 92 | 89 | 104 | 0.460 |
| | 3000K | 97 | 96 | 93 | 94 | 96 | 94 | 95 | 92 | 82 | 89 | 94 | 86 | 97 | 95 | 96 | 91 | 104 | 0.538 |
| | 3500K | 99 | 99 | 98 | 98 | 98 | 97 | 97 | 96 | 93 | 99 | 99 | 83 | 99 | 98 | 98 | 93 | 99 | 0.670 |
| | 4000K | 93 | 94 | 93 | 94 | 92 | 91 | 97 | 91 | 74 | 85 | 93 | 72 | 93 | 96 | 92 | 92 | 99 | 0.740 |

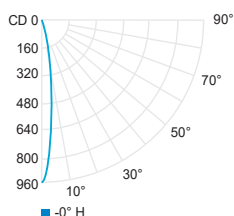
PHOTOMETRIC DATA



| CCT (K) | CRI | LOAD (W) | OPTIC | LUMENS (lm) | EFFICACY (lm / W) | MAX CANDELA (cd) | MODEL |
|---------|-----|----------|----------|-------------|-------------------|------------------|-------------------|
| 3000K | 90 | 1.4W* | Spot 14° | 80 | 57 | 951 | ILAS17RTXX-930-SP |

*For products that uses a remote led driver, total system wattage will varies according to the efficacy of the remote led driver selected. For this reason, the load and efficacy values given in the table above refers to the led source only and does not include the led driver consumption.

Spot 14° (3000K, 90CRI)



| | Center beam fc | Beam width ft |
|------|----------------|---------------|
| 2ft | 238 | 0.5 |
| 4ft | 59.5 | 1.0 |
| 6ft | 26.4 | 1.4 |
| 8ft | 14.9 | 1.9 |
| 10ft | 9.51 | 2.4 |
| 12ft | 6.61 | 2.9 |

| | | | | |
|-------------------|-------------|----------|-------------|-------------|
| CCT options | 2700K | 3000K | 3500K | 4000K |
| CRI options | 90CRI | 90CRI | 90CRI | 90CRI |
| Multiplier | 0.94 | 1 | 1.04 | 1.20 |