

Laser 17

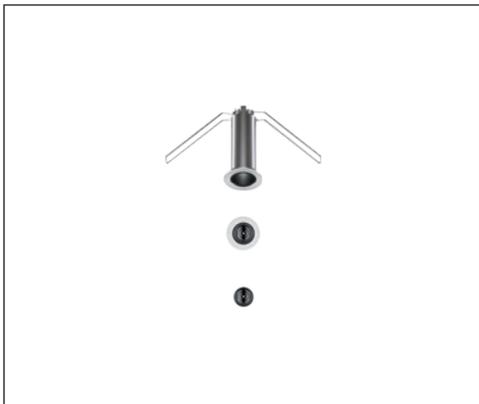
RECESSED DOWNLIGHT - HOUSING TITLE 24, JA8

Type:

SPECIFICATION SHEET

Project :

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*

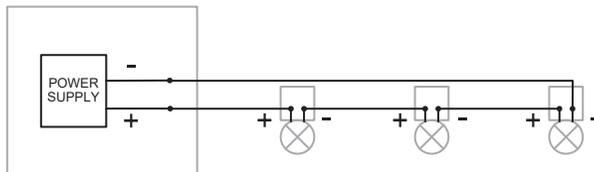
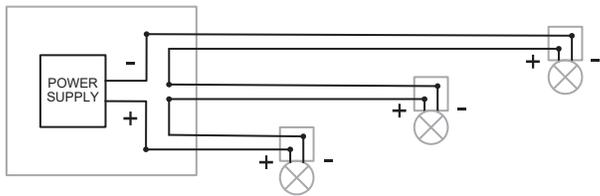
Min-max units	Watts	Voltage	Dimming protocol	Dimming range	Connection box dimensions	Max distance**	Connection box
4-12	20	120-277V	Lutron Hi Lume® 0.1% EcoSystem™ (Soft-on, Fade to Black)	Down to ±0.1%	6" x 4" x 3" (152 x 102 x 76mm)	35ft (10m)	4444-0500-020-UNV-D2 <input type="checkbox"/>
1-11	20	120-277V	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)



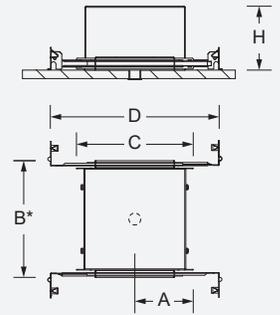
INSTALLATION

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)

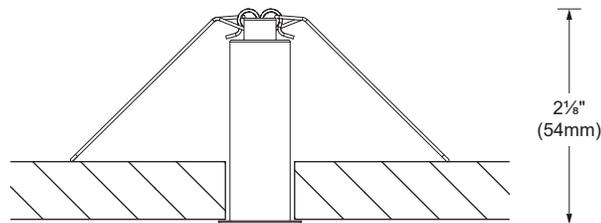
Certification: Airtight housing (AT) certified less than 2 cfm leakage @ 1.57PSI per ASTM E283.



*Provide a minimum of 1/8" (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

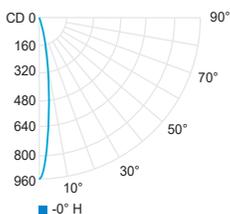
PHOTOMETRIC DATA



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