

# LASER BLADE

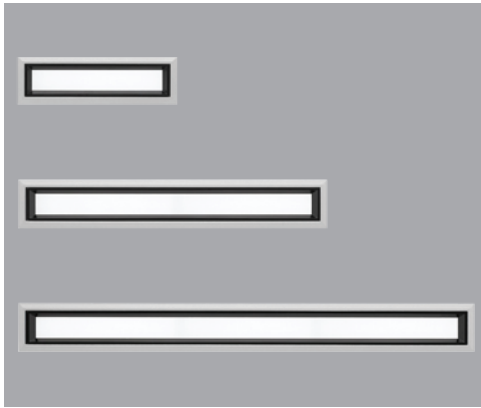
GENERAL LIGHT - NEW CONSTRUCTION WITH HOUSING - REMOTE - TITLE 24 - JA8

Type:

SPECIFICATION SHEET

Project :

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Laser blade offers miniaturized dimensions with high performance acrylic diffuser integrated in a polycarbonate baffle for maximized visual comfort and a die-cast aluminum heat sink. The special configuration of this optical system delivers a uniform distribution for general lighting.

## Luminaire characteristic:

**Power input:** 9.8W to 29W (source wattage)  
**Lumens:** 619lm to 1829lm (for 3000K, 92CRI)  
**Luminaire efficacy:** up to 63lm/W

<b>Source:</b>	White LED module (LM-80) 3000K: 92CRI (90CRI min), 3500K: 92CRI (90CRI min), 4000K: 92CRI (90CRI min).
<b>Lumen maintenance:</b>	90% of initial lumens at 50 000 hours (L90) (LM-79).
<b>Optics:</b>	General lighting
<b>Material:</b>	Body and heat sink: Die-cast aluminum Diffuser: Frosted PMMA diffuser with linear optic. Housing: Galvanized steel
<b>Mounting:</b>	New construction with housing for insulated ceiling, Chicago plenum and airtight applications.
<b>Electrical:</b>	High efficiency LED driver, rated at 50 000 hours. See remote LED driver options on page 3.
<b>Finish:</b>	Black, white (RAL9010) and grey (RAL9006).
<b>Weight:</b>	ILB05: 0.77lbs (0.35kg) ILB10: 1.43lbs (0.65kg) ILB15: 1.92lbs (0.87kg)
<b>Warranty:</b>	5 year limited warranty.
<b>Ratings:</b>	IP20, IP43 (from under the ceiling)
<b>Certification:</b>	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 "Appliance Advanced Search" option  
at the following address :  
<https://cacertappliances.energy.ca.gov>

**Assembled in North America.**

LASER BLADE

GENERAL LIGHT - NEW CONSTRUCTION WITH HOUSING - REMOTE - TITLE 24 - JA8

ORDERING INFO



PRODUCT CODE

INSTALLATION CODE

1

92CRI typical - 90CRI minimum.

## REMOTE LED DRIVER OPTIONS (TO BE ORDERED SEPARATELY)

## PRODUCT CODE

## Indoor rated drivers

Driver box model	Min-max units		
	ILB05 9.8W*	ILB10 20W*	ILB15 29W*
4443-0700-025-UNV-D2	1		
4450-0700-030-UNV-SD10	1-2	1	
4443-0700-035-UNV-D2	3		1
4450-0700-038-UNV-SD10	3		1
4450-0700-038-UNV-ED10	1-3	1	1

\* Wattage requirement for one (1) fixture (remote fixture only).

## DRIVER CODE SELECTION

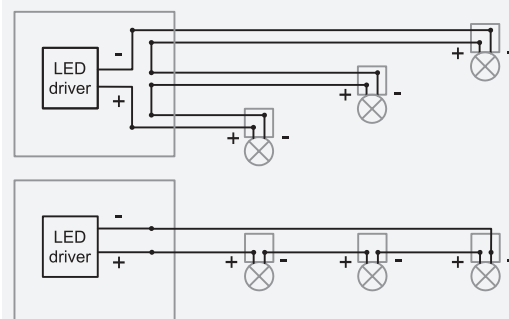
Complete the ordering info to activate the driver code selection menu.

MODEL	CONSTANT CURRENT	WATTAGE	VOLTAGE	DIMMING PROTOCOL
<b>4443</b> 5" x 4" x 3" (127 x 102 x 76mm)	<b>0700</b> 700mA	<b>025 to 038</b> 25W to 38W	<b>UNV</b> 120-277V	<b>D2</b> Lutron Hi Lume® 1% EcoSystem™ (Soft-on, Fade to Black) Max distance: 9m (30ft)* (down to 1%)
<b>4450</b> 8" x 8" x 4" (203 x 203 x 102mm)				<b>ED10</b> 0-10V ELDOLED ECOdrive Max distance: 36m (118ft)* (down to 1%)  <b>SD10</b> 0-10V ELDOLED SOLOdrive Max distance: 36m (118ft)* (down to 0.1%)

\*Max distance cable 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 airtight (AT) housing.

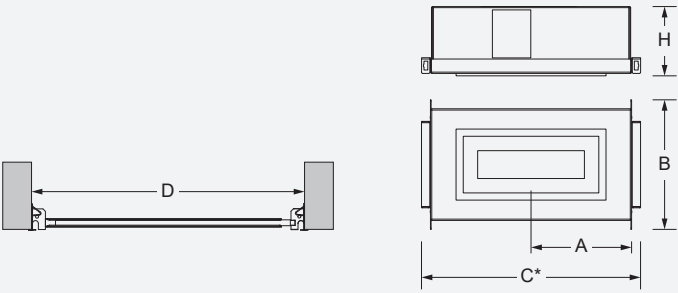
Housing with hanger bars system for new construction installations.  
Suitable for insulated ceiling , chicago plenum and airtight applications.  
Housing can be shipped separately.

Ceiling thickness:

Trim: 1⁄8" to 1 1⁄8" (3mm - 29mm)  
Trimless: 3⁄8" (16mm)

Total weight: 2.65lbs (1.20kg)

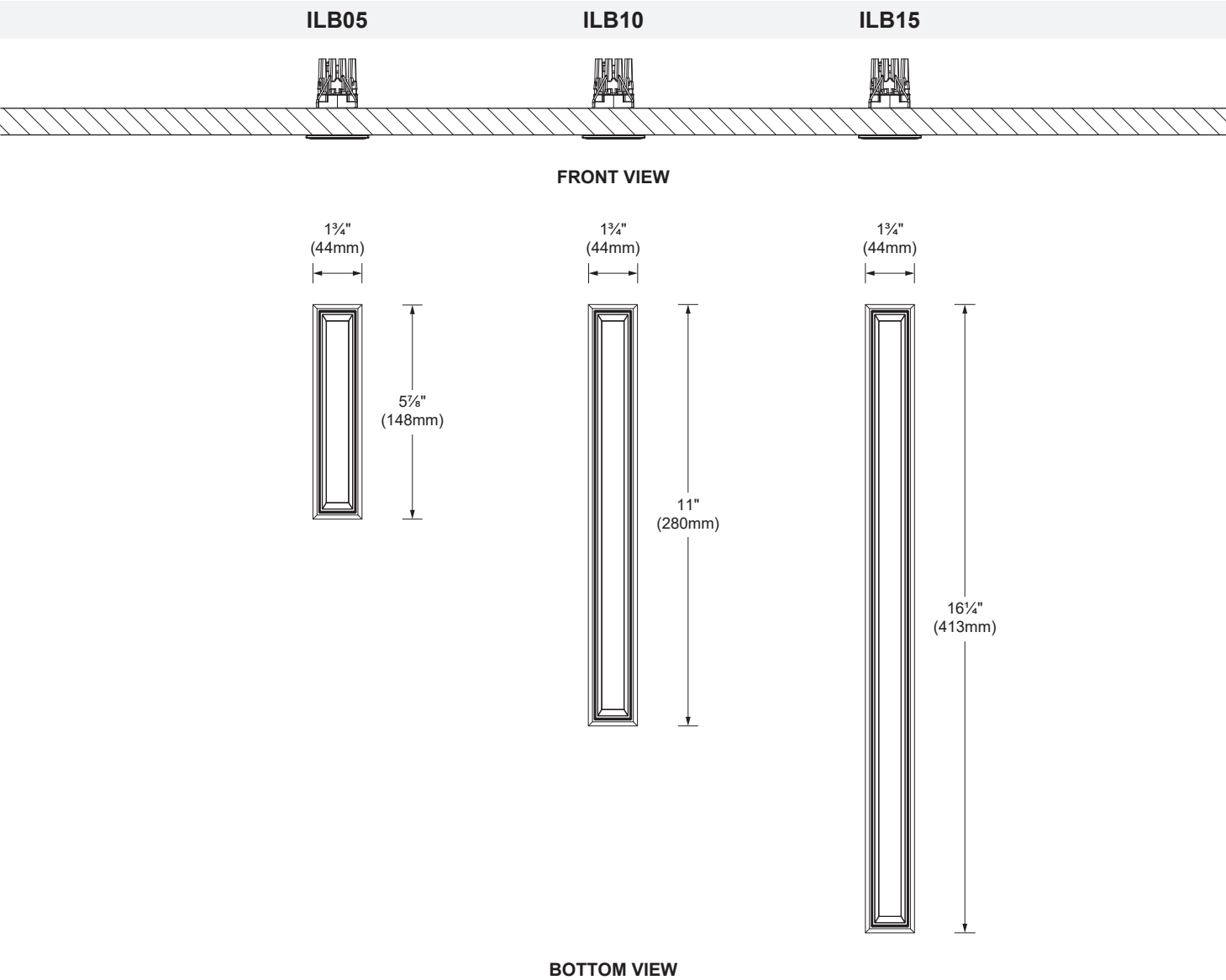
Certification: Airtight housing (AT) certified less than 2 cfm leakage  
@ 1.57PSI per ASTM E283.



\*Provide a minimum of 1 1⁄8" (46mm) on each side for the hanger bar fixations

Model	Housing	Cut-out dimensions	Cut-out positions (A)	Overall dimensions (BxC)	Hanger bars range (D)	Clearance (H)
ILB05	BI-LB05TR-AT-REM	1½" x 5⅝" (37 x 141mm)	5¼" (133mm)	6⅞" x 11½" (167mm x 292mm)	14¼" to 26" (362 to 660mm)	3½" (89mm)
	BI-LB05TL-AT-REM	1⅜" x 5⅝" (35 x 141mm)				
ILB10	BI-LB10TR-AT-REM	1½" x 10⅓⅝" (37 x 274mm)	8⅞" (223mm)	6½" x 21⅝" (166mm x 540mm)		
	BI-LB10TL-AT-REM	1⅜" x 10¾" (35 x 271mm)				
ILB15	BI-LB15TR-AT-REM	1½" x 16" (37 x 406mm)	13⅝" (332mm)	9¼" x 28⅞" (238mm x 716mm)		
	BI-LB15TL-AT-REM	1⅜" x 10⅓⅝" (35 x 404mm)				

DIMENSIONS



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
92	3000K	93	97	98	92	93	95	92	82	60	91	92	82	94	99	90	92	99	0.571
	4000K	93	94	94	93	92	91	94	86	64	85	93	78	93	96	90	91	100	0.715

PHOTOMETRIC DATA

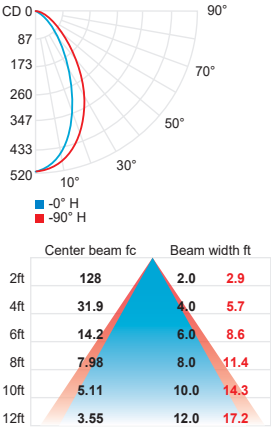
ILB05



CCT (K)	CRI	LOAD (W)*	OPTIC	LUMENS (lm)	EFFICACY (lm / W)*	MAX CANDELA (cd)	MODEL
3000K	92	9.8W	General light	620	63	511	ILB05-030-GL

\*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.

General light (3000K, 92CRI)



CCT options	3000K	3500K	4000K
CRI options	92CRI	92CRI	92CRI
Multiplier	1	1.05	1.10

## PHOTOMETRIC DATA

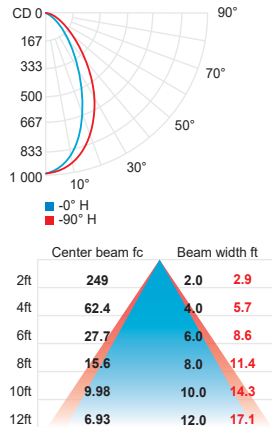
### ILB10



CCT (K)	CRI	LOAD (W)*	OPTIC	LUMENS (lm)	EFFICACY (lm / W)*	MAX CANDELA (cd)	MODEL
3000K	92	20W	General light	1 210	60	999	ILB10-030-GL

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#### General light (3000K, 92CRI)



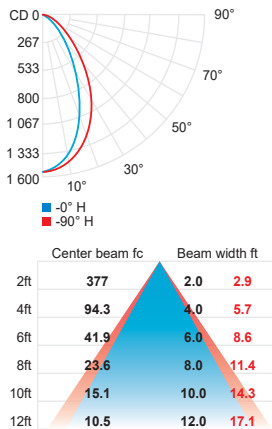
### ILB15



CCT (K)	CRI	LOAD (W)*	OPTIC	LUMENS (lm)	EFFICACY (lm / W)*	MAX CANDELA (cd)	MODEL
3000K	92	29W	General light	1 829	63	1 511	ILB15-030-GL

\*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.

#### General light (3000K, 92CRI)



CCT options	3000K	3500K	4000K
CRI options	92CRI	92CRI	92CRI
<b>Multiplier</b>	<b>1</b>	<b>1.05</b>	<b>1.10</b>