

# LASER BLADE

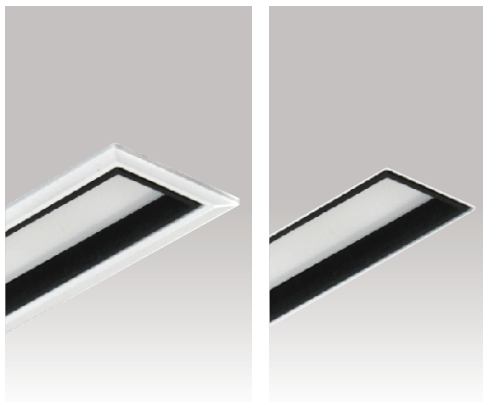
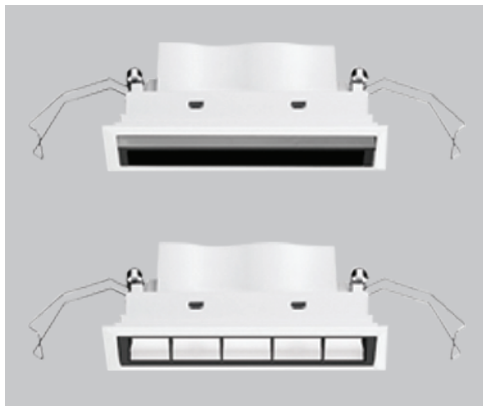
WALL WASHER - NEW CONSTRUCTION WITH PLASTER FRAME - REMOTE

Type:

SPECIFICATION SHEET

Project :

Page: 1 of 5



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 an assymetrical wall washing distribution.

**NOW ASSEMBLED IN NORTH AMERICA.**

## Luminaire characteristic:

**Power input:** 9.8W (source wattage)  
**Lumens:** 336lm to 420lm (for 3000K, 92CRI)  
**Luminaire efficacy:** up to 42lm/W

<b>Source:</b>	White LED module (LM-80) 2700K: 92CRI (90CRI min), 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>	Asymmetric wall washer and wall washer LGC (longitudinal glare control).
<b>Material:</b>	Body and heat sink: Die-cast aluminum Reflector: Aluminum Baffle: Polycarbonate Diffuser: PMMA diffuser with ribbed texture Plaster frame: Galvanized steel
<b>Mounting:</b>	New construction plaster frame suitable for insulated ceiling.
<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>	0.77lbs (0.35kg)
<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.



**Assembled in North America.**

## ORDERING INFO

**ILB 05 - - NC - - REM -**  
FIXTURE

**BN - LB05 - NC**  
HOUSING

## MODEL

☒ **05** - Five

## MOUNTING

☐ **TR** - Trim

☐ **TL** - Trimless

## INSTALLATION TYPE

☒ **NC** - New construction

## LED

☐ **027** - 2700K, 92CRI<sup>(1)</sup>

☐ **030** - 3000K, 92CRI<sup>(1)</sup>

☐ **035** - 3500K, 92CRI<sup>(1)</sup>

☐ **040** - 4000K, 92CRI<sup>(1)</sup>

## OPTIC

☐ **WW** - Wall washer

☐ **WL** - Wall washer LGC (Longitudinal glare control)

## VOLTAGE

☒ **REM** - Remote

☐ **POE** - Power over ethernet. (consult customer service)

## FINISH (trim finish / baffle finish)



**Black baffle**

## White trim

☐ **01** - White/Black

## Gray trim

☐ **10** - Gray/Black

## Black trim

☐ **02** - Black/Black

## Trimless

☐ **02** - Black

<sup>(1)</sup> 92CRI typical - 90CRI minimum.

## ACCESSORIES (TO BE ORDERED SEPARATELY)

Available only for trim mounting.

## Anti-glare screen

☐ **I.MXP7-02** - For laser blade 05



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

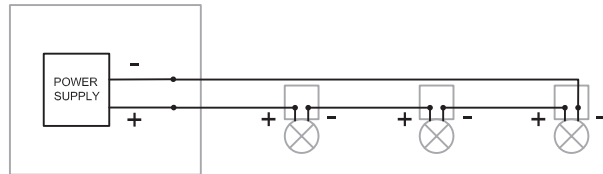
							ILB05 10W*
Watts	Voltage	Rated	Dimming protocol	Dimming range	Dimensions	Max distance**	Min-max units
<input type="checkbox"/> <b>4450-0700-012-120-LTE</b>							1
12	120V	Indoor	Leading and trailing edge (ELV and TRIAC)	Down to $\pm 15\%$	8" x 8" x 4" (203 x 203 x 102mm)	30ft(9m)	
<input type="checkbox"/> <b>4443-0700-014-UNV-D2</b>							1
14	120-277V	Indoor	Lutron Hi Lume® 1% EcoSystem™ (Soft-on, Fade to Black)	Down to $\pm 1\%$	5" x 4" x 3" (127 x 102 x 76mm)	30ft(9m)	
<input type="checkbox"/> <b>4444-0700-022-120-LTE</b>							1-2
22	120V	Indoor	Leading and trailing edge (ELV and TRIAC)	Down to $\pm 15\%$	6" x 4" x 3" (152 x 102 x 76mm)	30ft(9m)	
<input type="checkbox"/> <b>4443-0700-025-UNV-D2</b>							2
25	120-277V	Indoor	Lutron Hi Lume® 1% EcoSystem™ (Soft-on, Fade to Black)	Down to $\pm 1\%$	5" x 4" x 3" (127 x 102 x 76mm)	30ft(9m)	
<input type="checkbox"/> <b>4450-0700-030-UNV-SD10</b>							1-2
30	120-277V	Indoor	0-10V ELDOLED SOLOdrive	Down to $\pm 0.1\%$	8" x 8" x 4" (203 x 203 x 102mm)	118ft(36m)	
<input type="checkbox"/> <b>4443-0700-035-UNV-D2</b>							3
35	120-277V	Indoor	Lutron Hi Lume® 1% EcoSystem™ (Soft-on, Fade to Black)	Down to $\pm 1\%$	5" x 4" x 3" (127 x 102 x 76mm)	30ft(9m)	
<input type="checkbox"/> <b>4445-0700-040-120-LTE</b>							3
40	120V	Indoor	Leading and trailing edge (ELV and TRIAC)	Down to $\pm 15\%$	6" x 6" x 3" (152 x 152 x 76mm)	30ft(9m)	
<input type="checkbox"/> <b>4450-0700-038-UNV-ED10</b>							1-3
38	120-277V	Indoor	0-10V ELDOLED ECOdrive	Down to $\pm 1\%$	8" x 8" x 4" (203 x 203 x 102mm)	118ft(36m)	
<input type="checkbox"/> <b>4448-0700-100-UNV-SD10 (4 channels)</b>							1-8 <sup>(1)</sup> 2 per channel
100	120-277V	Indoor	0-10V ELDOLED SOLOdrive	Down to $\pm 0.1\%$	10" x 8" x 4" (254 x 203 x 102mm)	118ft(36m)	

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

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

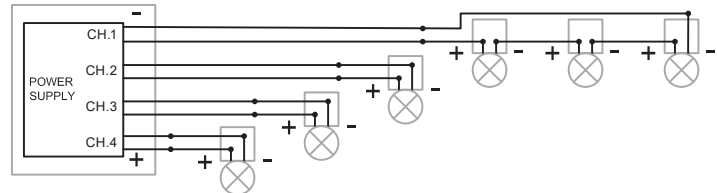
## WIRING DIAGRAMS

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



<sup>(1)</sup> Luminaires must be connected on separate channels (1-4).

Multiple luminaires can be connected in series on a channel (home run or fixture chain). Do not exceed the wattage and voltage range on each channel.



## INSTALLATION OPTIONS

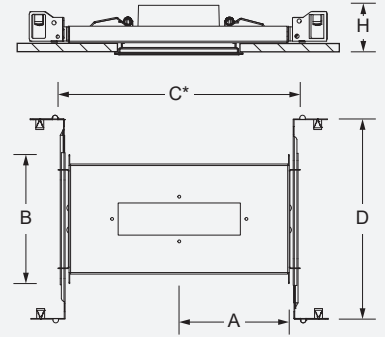
### New construction with plaster frame (NC)

Plaster frame with hanger bars system to be installed during rough-in phase. Suitable for insulated and non-insulated new construction ceiling assemblies, like sheetrock, acoustic tiles, or paneling. Plaster frame and trim can be shipped separately. **(Power supply is not accessible from luminaire opening)**

#### Ceiling thickness:

Trim:  $\frac{1}{8}$ " to  $1\frac{1}{8}$ " (3mm to 29mm)

Trimless:  $\frac{5}{8}$ " (16mm)



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

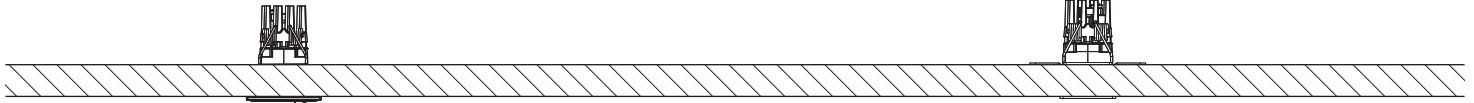
Model	Plaster frame	Cut-out dimensions	Cut-out position (A)	Overall dimensions (BxC)	Hanger bars (D)	Clearance (H)
ILB05	BN-LB05TR-NC	$1\frac{1}{2}$ " x $5\frac{7}{16}$ " (37 x 141mm)	$5\frac{1}{4}$ " (133mm)	$5\frac{7}{8}$ " x 11" (150 x 280mm)	9" to $15\frac{1}{4}$ " (229 to 387mm)	$2\frac{1}{2}$ " (64mm)
	BN-LB05TL-NC	$1\frac{3}{8}$ " x $5\frac{7}{16}$ " (35 x 141mm)				

## TRIM MODEL DIMENSIONS

## TRIMLESS MODEL DIMENSIONS

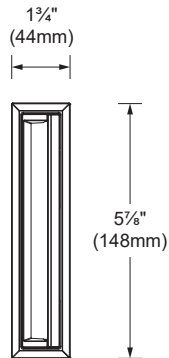
### ILB05

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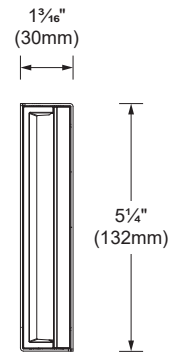


FRONT VIEW

FRONT VIEW



BOTTOM VIEW



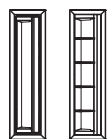
BOTTOM VIEW

## 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
92	2700K	92	96	98	91	91	95	91	79	55	89	92	86	93	98	88	91	100	0.488
	3000K	93	97	98	92	93	95	92	82	60	91	92	82	94	99	90	92	99	0.571
	3500K	92	95	96	92	91	93	93	83	59	87	92	79	93	97	89	92	99	0.635
	4000K	93	94	94	93	92	91	94	86	64	85	93	78	93	96	90	91	100	0.715

## PHOTOMETRIC DATA

## ILB05

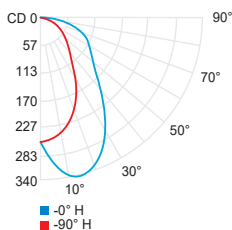


WW WL

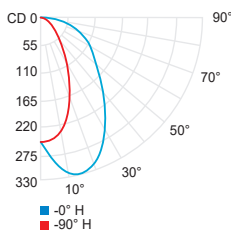
CCT (K)	CRI	LOAD (W)*	OPTIC	LUMENS (lm)	EFFICACY (lm / W)*	MAX CANDELA (cd)	MODELS
3000K	92	9.8W	Wall washer	420	42	338	ILB05-030-WW
			Wall washer LGC (longitudinal glare control)	336	35	325	ILB05-030-WL

\*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.

Wall washer (3000K, 92CRI)



Wall washer LGC (3000K, 92CRI)



CCT options	2700K	3000K	3500K	4000K
CRI options	92CRI	92CRI	92CRI	92CRI
<b>Multiplier</b>	<b>0.95</b>	<b>1</b>	<b>1.05</b>	<b>1.10</b>