

LASER BLADE INOUT 2

Recessed Downlight - Remote

Project: _____

Type: _____



Laser Blade InOut is the continuity of the Laser Blade family designed for wet or damp applications. The luminaires are equipped with high performance Opti Beam optics system for low luminance downlights (UGR < 10). Laser Blade InOut is available in 4 aperture sizes, trim or flush mount, 3 distributions, generous outputs of up to 2400 lumens and excellent chromatic performance.

PHOTOMETRIC SUMMARY

Optic	Lumens (lm)	Efficacy (lm/W)	Max Candela (cd)	BUG
FL - 30°	332	61	1 077	B1 U0 G0
WF - 48°	319	59	605	B1 U0 G0

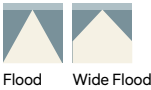
For 3000K, 90CRI. Consult [page 5](#) for full photometric data.

FINISH OPTIONS



Consult factory for custom finishes

OPTIC OPTIONS



FEATURES

- 0-10V (120-277V) down to 1% Triac and ELV (120V) down to 15%
- Additional sizing available with integral driver: [Ceiling 2](#), [Ceiling 5](#), [Wall 2](#) & [Wall 5](#)
- Additional sizing available with remote driver: [Ceiling 2](#), [Ceiling 5](#), [Wall 2](#), [Wall 5 Recessed 5](#), [Recessed 10](#) & [Recessed 15](#)
- Consult factory for further customization
- Full specification available [page 4](#)



ORDERING INFO

PRODUCT CODE

EXAMPLE: ILBIO02-TR-RF-930-FL-REM-01

MODEL	MOUNTING	INSTALLATION TYPE	LED	OPTIC	VOLTAGE	FINISH (TRIM / BAFFLE)			
ILBIO02 Two Cells	TR Trim	RF Remodel	927 2700K, 90CRI	FL Flood 30°	REM Remote	01 White / Black	02 Black / Black	15 Gray / Black	I5 Rust Brown / Black
	FM Flush Mounted	NC New Construction Plaster Frame	930 3000K, 90CRI	WF Wide Flood 48°		T4 White / Glossy Lead	T0 Black / Glossy Lead	T8 Gray / Glossy Lead	U2 Rust Brown / Glossy Lead
		CP New Construction Chicago Plenum	935 3500K, 90CRI			T3 White / Glossy Sand	S9 Black / Glossy Sand	T7 Gray / Glossy Sand	U1 Rust Brown / Glossy Sand
			940 4000K, 90CRI			T2 White / Glossy Copper	S8 Black / Glossy Copper	T6 Gray / Glossy Copper	U0 Rust Brown / Glossy Copper
						T1 White / Glossy Urban Bronze	S7 Black / Glossy Urban Bronze	T5 Gray / Glossy Urban Bronze	T9 Rust Brown / Glossy Urban Bronze

DRIVER CODE

EXAMPLE: 4549-0700-038-UNV-ED10

DRIVER
Driver options are available on page 2 .

LASER BLADE INOUT 2
Recessed Downlight - Remote

Project: _____
Type: _____

REMOTE LED DRIVER OPTIONS

DRIVER CODE

EXAMPLE: 4549-0700-038-UNV-ED10

INDOOR RATED DRIVER BOX MODELS	MIN-MAX UNITS	OUTDOOR RATED DRIVER BOX MODELS	MIN-MAX UNITS
	4W*		4W*
4444-0700-011-UNV-ND	2	4548-0700-011-UNV-ND	2
4444-0700-022-120-LTE	2-4	4548-0700-022-120-LTE	2-4
4445-0700-040-120-LTE	7-8	4548-0700-040-120-LTE	7-8
4443-0700-014-UNV-D2	3	4548-0700-014-UNV-D2	3
4443-0700-025-UNV-D2	4-5	4548-0700-025-UNV-D2	4-5
4443-0700-035-UNV-D2	6-7	4548-0700-035-UNV-D2	6-7
4444-0700-007-UNV-D10	1	4548-0700-007-UNV-D10	1
4450-0700-030-UNV-ED10	1-6	4549-0700-030-UNV-ED10	1-6
4450-0700-038-UNV-ED10	1-8	4549-0700-038-UNV-ED10	1-8
4450-0700-030-UNV-SD10	1-6	4549-0700-030-UNV-SD10	1-6
4448-0700-100-UNV-SD10 (4 output)	1-20 MAX 5 per output	4549-0700-100-UNV-SD10 (4 output)	1-20 MAX 5 per output

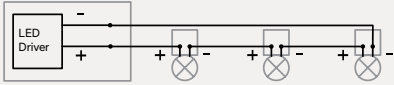
* Wattage requirement for one (1) fixture (remote fixture only).

DRIVER BOX MODEL DESCRIPTION

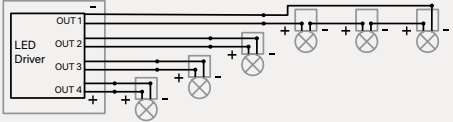
MODEL (L x W x H)	CONSTANT CURRENT	WATTAGE	VOLTAGE	DIMMING PROTOCOL
4443 5" x 4" x 3" (127 x 102 x 76mm)	0700 700mA	007 to 100 7W to 100W	120 120V	ND No dimming Max Distance 30ft (9m) ¹
4444 6" x 4" x 3" (152 x 102 x 76mm)			UNV 120-277V	LTE Leading & Trailing Edge (ELV & TRIAC) Dimming Range Down to 15% Max Distance 30ft (9m) ¹
4445 6" x 6" x 3" (152 x 152 x 76mm)				D2 Lutron Hi Lume® 1% EcoSystem™ (Soft-on, Fade to Black) Dimming Range Down to 1% Max Distance 30ft (9m) ¹
4448 10" x 8" x 4" (254 x 203 x 102mm)				D10 0-10V Dimming Range Down to 10% Max Distance 30ft (9m) ¹
4450 8" x 8" x 4" (203 x 203 x 102mm)				ED10 0-10V ELDOLED ECOdrive Dimming Range Down to 1% Max Distance 118ft (36m) ¹
4548 6" x 4.5" x 3" (152 x 114 x 76mm)				SD10 0-10V ELDOLED SOLOdrive Dimming Range Down to 0.1% Max Distance 118ft (36m) ¹
4549 14.5" x 5" x 3.5" (368 x 127 x 89mm)				

WIRING DIAGRAMS

For ND, LTE, D2, D10 or ED10
Multiple luminaires must be connected in series (home run or fixture chain)



For SD10
Luminaires must be connected on separate output. Multiple luminaires can be connected in series on a led output (home run or fixture chain). Do not exceed the wattage and voltage range on each output.



¹ Max distance cable calculated for 16AWG cable. Contact customer service for longer remote distance.

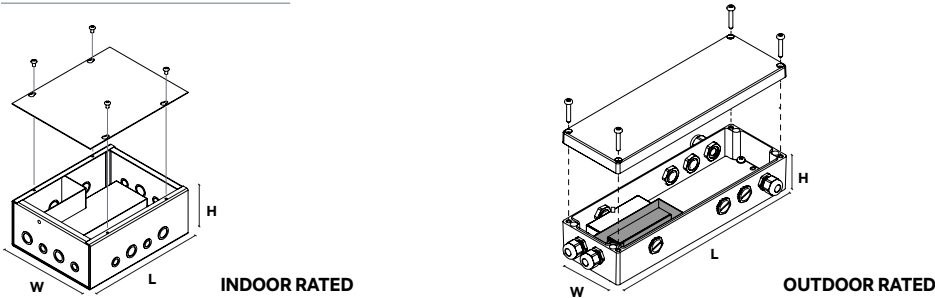
LASER BLADE INOUT 2

Recessed Downlight - Remote

Project: _____

Type: _____

DRIVER BOX DIMENSIONS



INSTALLATION

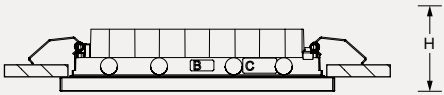
REMODEL (RF)

Versatile fixture for new or existing ceiling structure. Suitable for insulated or non-insulated ceiling assemblies, like sheetrock, or paneling. Fixture is ready for remodeling installation.

Flush mount frame and fixture can be shipped separately.

CEILING THICKNESS

Trim 1/8" - 1" (3 - 25mm)
Flush mounted 5/8" (16mm)



Mounting	Flush Mount Frame*	Cut-Out Dimensions	Clearance (H)
TR		1 3/8" x 2 1/2" (35 x 64mm)	3 1/4" (83mm)
FM	TK-LBIO02-FM-RF	2 3/16" x 3 1/2" (55 x 88mm)	

*Can be installed from below the ceiling.

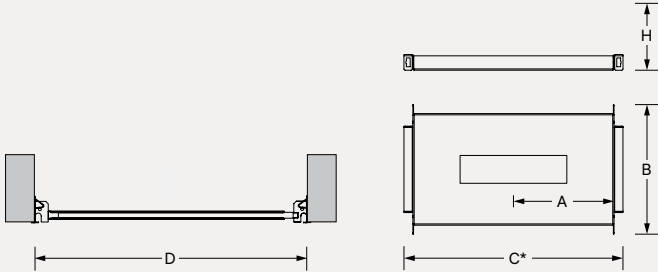
NEW CONSTRUCTION WITH PLASTER FRAME (NC)

Plaster frame with hanger bars system to be installed during rough-in phase. Suitable for insulated or non-insulated ceiling assemblies, like sheetrock, or paneling.

Plaster frame can be shipped separately.

CEILING THICKNESS

Trim 1/8" - 1" (3 - 25mm)
Flush mounted 5/8" (16mm)



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

Plaster Frame	Cut-Out Dimensions	Cut-Out Positions (A)	Overall Dimensions (BxC)	Hanger Bars Range (D)	Clearance (H)
BN-LBIO02-TR-NC	1 3/8" x 2 1/2" (35 x 64mm)	3" (76mm)	5 15/16" x 6 15/16" (150 x 176mm)	9" to 15 1/4" (229 to 387mm)	3 1/4" (83mm)
BN-LBIO02-FM-NC	2 3/16" x 3 1/2" (55 x 88mm)				

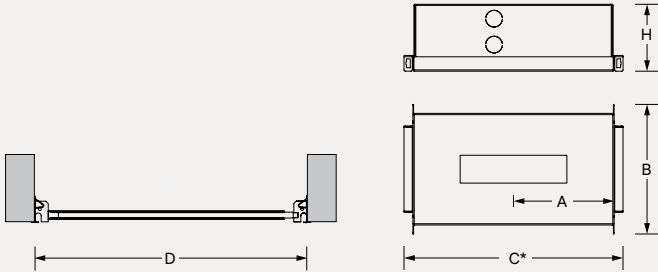
NEW CONSTRUCTION WITH HOUSING SUITABLE FOR CHICAGO PLENUM (CP)

Housing with hanger bars system for new construction installations. Suitable for insulated ceiling or chicago plenum applications.

Housing can be shipped separately.

CEILING THICKNESS

Trim 1/8" - 1" (3 - 25mm)
Flush mounted 5/8" (16mm)



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

Housing	Cut-Out Dimensions	Cut-Out Positions (A)	Overall Dimensions (BxC)	Hanger Bars Range (D)	Clearance (H)
BI-LBIO02-TR-CP	1 3/8" x 2 1/2" (35 x 64mm)	5 1/4" (133mm)	6 3/4" x 11 1/16" (172 x 290mm)	9" to 15 1/4" (229 to 387mm)	3 1/2" (89mm)
BI-LBIO02-FM-CP	2 3/16" x 3 1/2" (55 x 88mm)				

LASER BLADE INOUT 2

Recessed Downlight - Remote

Project: _____

Type: _____

SPECIFICATIONS

LUMEN MAINTENANCE

90% of initial lumens at 100 000 hours (L90 B10) T77°F (25°C)
 90% of initial lumens at 100 000 hours (L90 B10) T104°F (40°C)

OPTICS

Low luminance: Flood or Wide Flood optics with Opti Beam technology

MATERIAL

Body and heat sink: Die-cast aluminum

Frame: Aluminum alloy

Glass: 3mm thick tempered soda-lime glass, transparent with black screen-printing on the edge

Reflector and baffle: Thermoplastic

Housing: Galvanized steel

MOUNTING

Remodel suitable for insulated ceiling.

New construction plaster frame suitable for insulated ceiling.

New construction Chicago Plenum.

See installation option details on [page 3](#).

ELECTRICAL

High efficiency remote dimmable LED driver, rated at 50 000 hours.

See remote LED driver options on [page 2](#).

DIMMING

0-10V (120-277V) down to 1%

Triac and ELV (120V) down to 15%

See dimming options on [page 2](#).

FINISH

Trim: Black (RAL9005), Gray (RAL9007), Rust Brown (RAL8017), and White (RAL9016) painted with a high level of weather and UV resistance. The semi-gloss finish coating is electrostatically applied durable acrylic enamel baked at high temperatures for superior color retentive finish. We provide RAL numbers that are similar, but we cannot guarantee an exact color match. For a more accurate color and gloss match, please contact customer service for a sample chip.

Baffle: Black, Glossy Sand, Glossy Copper, Glossy, Urban Bronze and Glossy Lead.

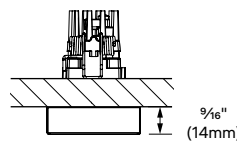
OPERATING TEMPERATURE

-22°F to 122°F (-30°C to 50°C)

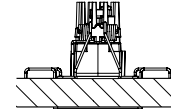
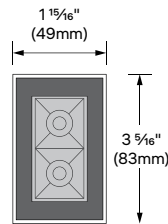
WEIGHT

0.33lb (0.15kg)

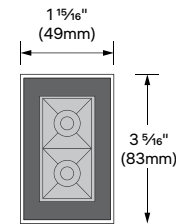
DIMENSIONS



TRIM



FLUSH MOUNTED



LASER BLADE INOUT 2**Recessed Downlight - Remote**

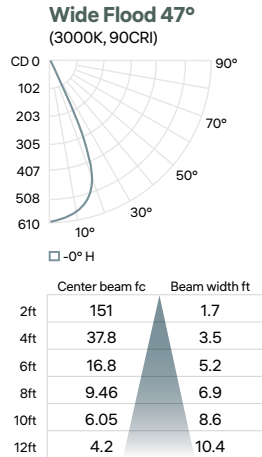
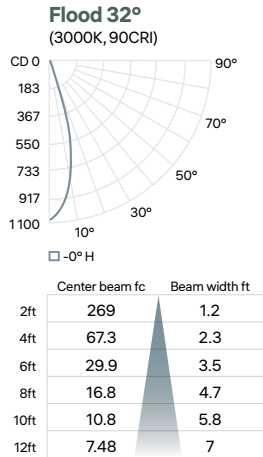
Project: _____

Type: _____

PHOTOMETRIC DATA

CCT (K)	CRI	POWER (W)	OPTIC	LUMENS (lm)	EFFICACY (lm/W)	MAX CANDELA (cd)	BUG	MODELS
3000	90	5.4	Flood 32 °	332	61	1 077	B1 U0 G0	ILBIO02-930-FL
			Wide Flood 47°	319	59	605	B1 U0 G0	ILBIO02-930-WF

Power can vary with selected drivers. Use multiplier table for other CCT and CRI output data. Efficacy based on IESNA LM-79 test reports. Visit iguzzini.com/us for complete photometric data.



CCT options	2700K	3000K	3500K	4000K
CRI options	90CRI	90CRI	90CRI	90CRI
Multiplier	1	1	1.1	1.14