

Laser blade is a collection of recessed downlights for architectural applications. Laser Blade optics have evolved through the adoption of Opti Diamond technology, the outcome of a detailed study into materials, engineering and processes that optimise the catadioptric principle, with the result of extraordinary brilliance just like a diamond. Laser blade space is available in 3 aperture size, trim or trimless with generous outputs of up to 2646 lumens and excellent chromatic performance .

NOW ASSEMBLED IN NORTH AMERICA.

Luminaire characteristic:

Power input: 9.8W to 29W (source wattage)
Lumens: 882lm to 2604lm (for 3000K, 92CRI)
Luminaire efficacy: up to 90lm/W

Source:	White LED module (LM-80) 2700K: 92CRI (90CRI min), 3000K: 92CRI (90CRI min), 3500K: 92CRI (90CRI min), 4000K: 92CRI (90CRI min).
Lumen maintenance:	90% of initial lumens at 50 000 hours (L90) (LM-79).
Optics:	Wide flood optic with Opti Diamond technology.
Material:	Body and heat sink: Die-cast aluminum Reflector and baffle: Thermoplastic Housing: Galvanized steel
Mounting:	Remodel suitable for insulated ceiling. New construction plaster frame suitable for insulated ceiling. New construction housing suitable for insulated ceiling.
Electrical:	High efficiency LED driver, rated at 50 000 hours. See remote LED driver options on page 3.
Finish:	Black or white (RAL9010) body with transparent baffle (page 2).
Weight:	ILB05: 0.66lbs (0.30kg) ILB10: 1.32lbs (0.60kg) ILB15: 1.90lbs (0.86kg)
Warranty:	5 year limited warranty.
Ratings:	IP20, IP23 (from under the ceiling)
Certification:	cULus listed for damp location. Interior use only.



Assembled in North America.

ORDERING INFO



PRODUCT CODE			INSTALLATION CODE			
MODEL	MOUNTING	INSTALLATION	LED	OPTIC	VOLTAGE	FINISH (trim finish / baffle finish)
ILB05 05 cells	TR Trim	RF 1 Remodel	027 2 2700K, 92CRI	WF Wide flood 47°	REM Remote	TRIM
ILB10 10 cells	TL Trimless	NC 1 New construction plaster frame	030 2 3000K, 92CRI		<input type="checkbox"/> POE Power over ethernet. (consult customer service)	D8 White / transparent
ILB15 15 cells		IC New construction insulated ceiling	035 2 3500K, 92CRI			83 Black / transparent
			040 2 4000K, 92CRI			TRIMLESS
						24 Transparent

1 Available with 05 cells (ILB05) model.
2 92CRI typical - 90CRI minimum.

REMOTE LED DRIVER OPTIONS (TO BE ORDERED SEPARATELY)

PRODUCT CODE (COMPLETE ON THE PREVIOUS PAGE)

Indoor rated drivers

Driver box model	Min-max units		
	ILB05 9.8W*	ILB10 20W*	ILB15 29W*
4450-0700-012-120-LTE	1		
4443-0700-014-UNV-D2	1		
4444-0700-022-120-LTE	1-2	1	
4443-0700-025-UNV-D2	2	1	
4450-0700-030-UNV-SD10	1-2	1	
4443-0700-035-UNV-D2	3		1
4445-0700-040-120-LTE	3		1
4450-0700-038-UNV-ED10	1-3	1	1
4448-0700-100-UNV-SD10 (4 channels)	1-8 2 max. per channel	1-4 1 max. per channel	1-3 1 max. per channel

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

DRIVER CODE SELECTION

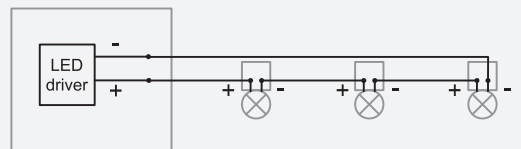
Complete the ordering info to activate the driver code selection menu.

MODEL	CONSTANT CURRENT	WATTAGE	VOLTAGE	DIMMING PROTOCOL
4443 5" x 4" x 3" (127 x 102 x 76mm)	0700 700mA	012 to 100 12W to 100W	120 120V UNV 120-277V	D2 Lutron Hi Lume® 1% EcoSystem™ (Soft-on, Fade to Black) Max distance: 9m (30ft)** (down to 1%)
4444 6" x 4" x 3" (152 x 102 x 76mm)				ED10 0-10V ELDOLED ECOdrive Max distance: 36m (118ft)** (down to 1%)
4445 6" x 6" x 3" (152 x 152 x 76mm)				SD10 0-10V ELDOLED SOLOdrive Max distance: 36m (118ft)** (down to 0.1%)
4448 10" x 8" x 4" (254 x 203 x 102mm)				LTE Leading edge and trailing edge (ELV and TRIAC) Max distance: 9m (30ft)** (down to 15%)
4450 8" x 8" x 4" (203 x 203 x 102mm)				

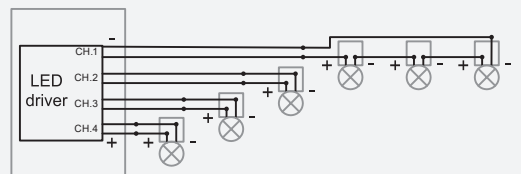
**Max distance cable calculated for 16AWG cable. Contact customer service for longer remote distance.

WIRING DIAGRAMS

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



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

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. Trimless frame and fixture can be shipped separately.

Ceiling thickness:

Trim: $\frac{1}{8}$ " to $\frac{1}{4}$ " (3mm - 29mm)

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



Model			Cut-out dimensions	Clearance (H)
ILB05	TR		1½" x 5⅝" (37 x 141mm)	2½" (64mm)
	TL	TK-LB05TL-RF	1⅜" x 5⅝" (35 x 141mm)	

*Can be installed from below the ceiling.

New construction with plaster frame (NC)

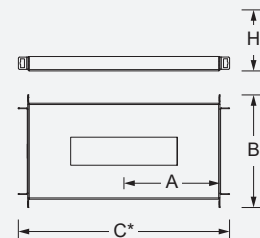
Plaster frame with hanger bars system to be installed during rough-in phase. Suitable for insulated or non-insulated ceiling assemblies, like sheetrock, or paneling. Plaster frame and trim can be shipped separately.

(Power supply is not accessible from luminaire opening)

Ceiling thickness:

Trim: $\frac{1}{8}$ " to $\frac{1}{4}$ " (3mm to 29mm)

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



*Provide a minimum of 1⅝" (46mm) on each side for the hanger bar fixations

Model	Plaster frame	Cut-out dimensions	Cut-out positions (A)	Overall dimensions (BxC)	Hanger bars range (D)	Clearance (H)
ILB05	BN-LB05TR-NC	1½" x 5⅝" (37 x 141mm)	5¼" (133mm)	5⅝" x 11" (150 x 280mm)	9" to 15¼" (229 to 387mm)	2½" (64mm)
	BN-LB05TL-NC	1⅜" x 5⅝" (35 x 141mm)				

New construction with housing (IC)

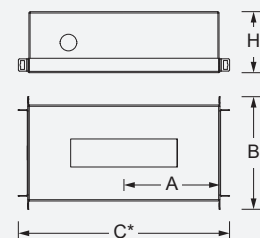
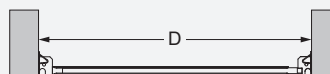
New construction housing with hanger bars system to be installed during rough-in phase. This installation is suitable for insulated or non-insulated ceiling. housing and trim can be shipped separately.

(Power supply is not accessible from luminaire opening)

Ceiling thickness:

Trim: $\frac{1}{8}$ " - $\frac{1}{4}$ " (3mm - 29mm)

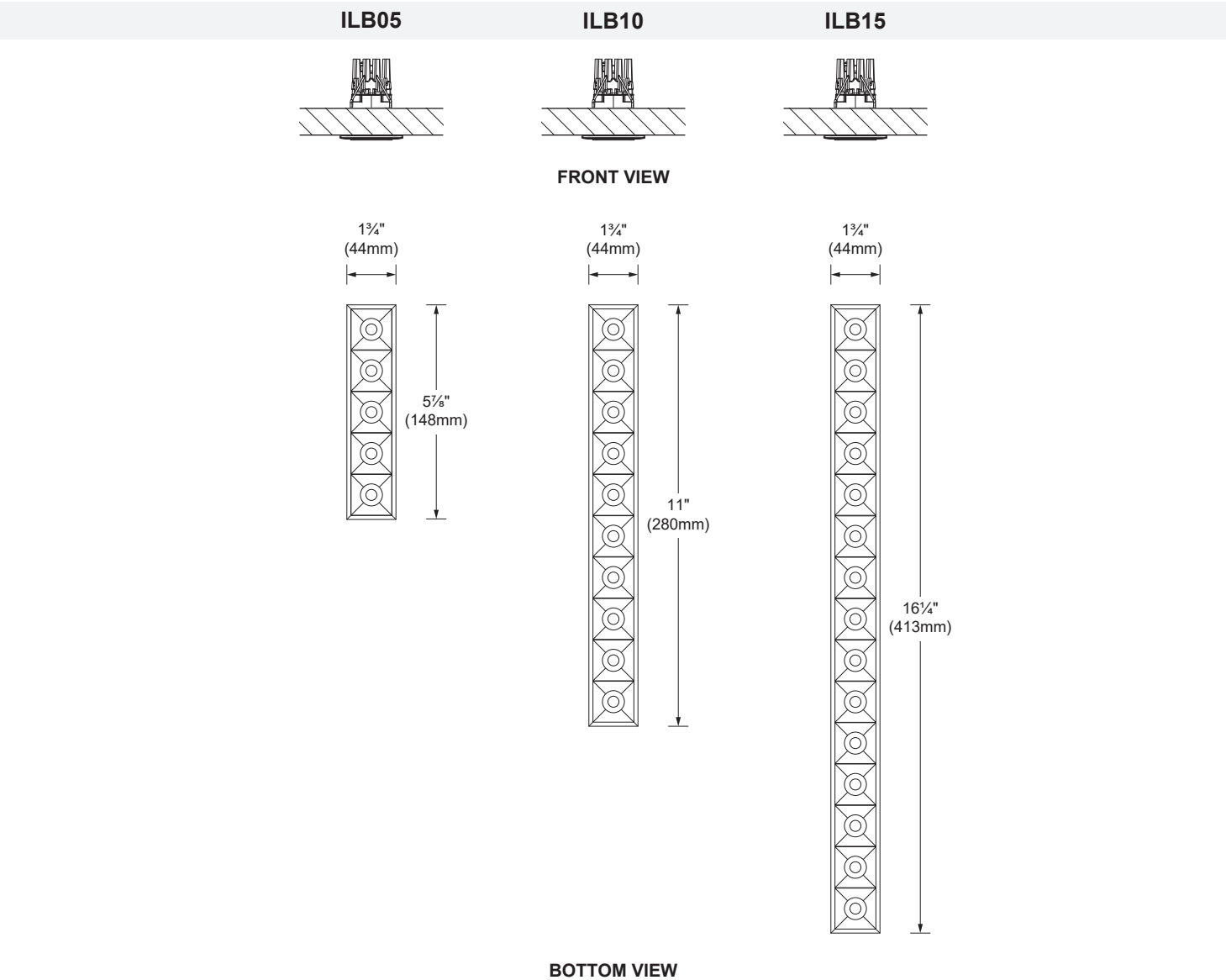
Trimless: $\frac{5}{8}$ " (16mm)



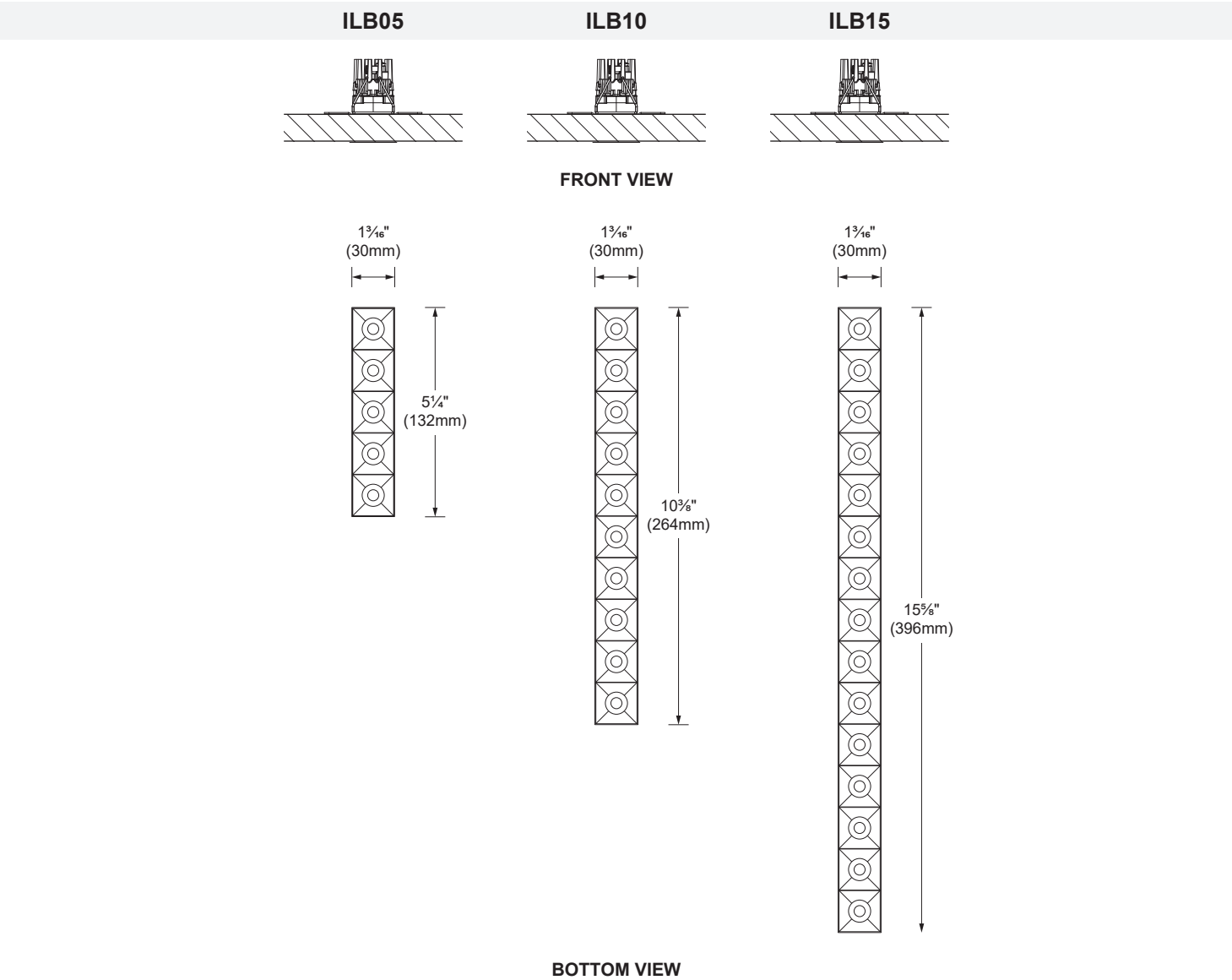
*Provide a minimum of 1⅝" (46mm) on each side for the hanger bar fixations

Model	Housing	Cut-out dimensions	Cut-out positions (A)	Overall dimensions (BxC)	Hanger bars range (D)	Clearance (H)
ILB05	BI-LB05TR-IC-REM	1½" x 5⅝" (37 x 141mm)	5¼" (133mm)	5⅝" x 11" (150 x 280mm)	14¼" to 26" (362 to 660mm)	3⅜" (81mm)
	BI-LB05TL-IC-REM	1⅜" x 5⅝" (35 x 141mm)				
ILB10	BI-LB10TR-IC-REM	1½" x 10⅞" (37 x 274mm)	8⅞" (223mm)	5⅝" x 18⅞" (144 x 430mm)	14¼" to 26" (362 to 660mm)	3½" (89mm)
	BI-LB10TL-IC-REM	1⅜" x 10⅞" (35 x 271mm)				
ILB15	BI-LB15TR-IC-REM	1½" x 16" (37 x 406mm)	13⅞" (332mm)	9½" x 25" (242 x 635mm)	14¼" to 26" (362 to 660mm)	3½" (89mm)
	BI-LB15TL-IC-REM	1⅜" x 15⅞" (37 x 404mm)				

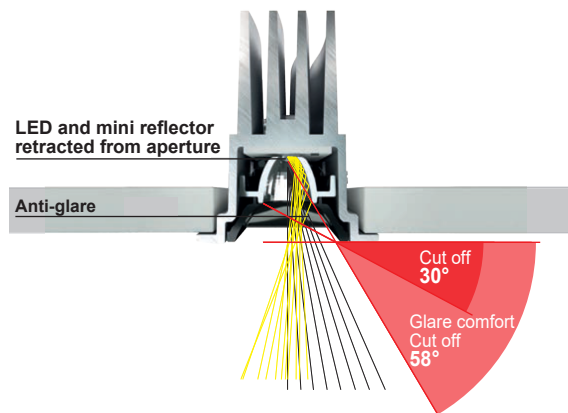
TRIM MODELS DIMENSIONS



TRIMLESS MODELS DIMENSIONS



Visual comfort UGR < 16.



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

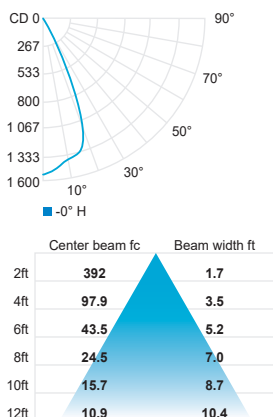
ILB05



CCT (K)	CRI	LOAD (W)*	OPTIC	LUMENS (lm)	EFFICACY (lm / W)	MAX CANDELA (cd)	MODEL
3000K	92	9.8W	Wide flood 47°	882	90	1 572	ILB05-030-WF

*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.

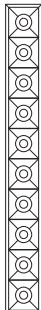
Wide flood 47° (3000K, 92CRI)



CCT options	2700K	3000K	3500K	4000K
CRI options	92CRI	92CRI	92CRI	92CRI
Multiplier	0.95	1	1.05	1.10

PHOTOMETRIC DATA

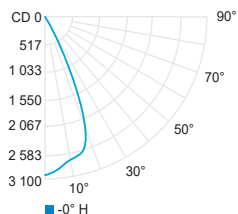
ILB10



CCT (K)	CRI	LOAD (W)*	OPTIC	LUMENS (lm)	EFFICACY (lm / W)	MAX CANDELA (cd)	MODEL
3000K	92	20W	Wide flood 47°	1 722	86	3 069	ILB10-030-WF

*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.

Wide flood 47° (3000K, 92CRI)



	Center beam fc	Beam width ft
2ft	765	1.7
4ft	191	3.5
6ft	85.0	5.2
8ft	47.8	6.9
10ft	30.6	8.6
12ft	21.2	10.4

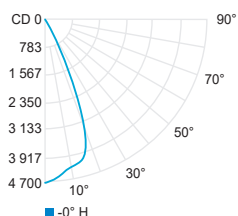
ILB15



CCT (K)	CRI	LOAD (W)*	OPTIC	LUMENS (lm)	EFFICACY (lm / W)	MAX CANDELA (cd)	MODEL
3000K	92	29W	Wide flood 47°	2 604	89	4 641	ILB15-030-WF

*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.

Wide flood 47° (3000K, 92CRI)



	Center beam fc	Beam width ft
2ft	1 157	1.7
4ft	289	3.5
6ft	129	5.2
8ft	72.3	6.9
10ft	46.3	8.6
12ft	32.1	10.4

CCT options	2700K	3000K	3500K	4000K
CRI options	92CRI	92CRI	92CRI	92CRI
Multiplier	0.95	1	1.05	1.10