LASER BLADE SPACE
DOWNLIGHT - REMOTE

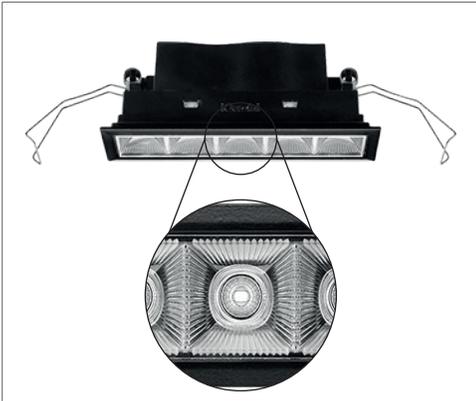TRIM - D8 - White / transparent

TRIM - 83 - Black / transparent

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 .

CCT (K)	CRI	MODEL	OPTIC	SYSTEM POWER (W)	LUMENS (lm)	EFFICACY (integral (lm / W))	MAX CANDELA (cd)
		ILB05	Wide Flood 47°	13.0	1 028	78	1 842
3000	92	ILB10	Wide Flood 47°	25.0	2 056	82	3 685
		ILB15	Wide Flood 47°	36.5	3 076	84	5 511

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-80).
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. 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.**

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LASER BLADE SPACE
DOWNLIGHT - REMOTE

ORDERING INFO

CLICK HERE

CONFIGURE

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		☐ **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.
*Custom baffle finish available, contact customer service for details.

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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

N.B. : For DALI dimming solution contact cutomer service.

* 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	**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)			**UNV** 120-277V	
4445 6" x 6" x 3" (152 x 152 x 76mm)				**ED10** 0-10V ELDOLED ECOdrive Max distance: 36m (118ft)** (down to 1%)
4448 10" x 8" x 4" (254 x 203 x 102mm)				**SD10** 0-10V ELDOLED SOLOdrive Max distance: 36m (118ft)** (down to 0.1%)
4450 8" x 8" x 4" (203 x 203 x 102mm)				**LTE** Leading edge and trailing edge (ELV and TRIAC) Max distance: 9m (30ft)** (down to 15%)

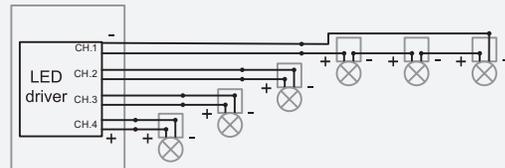****Max distance cable calculated for 16AWG cable. Contact customer service for longer remote distance.**

WIRING DIAGRAMS

Multiple luminaires must be connected in series
(home run or fixture chain)
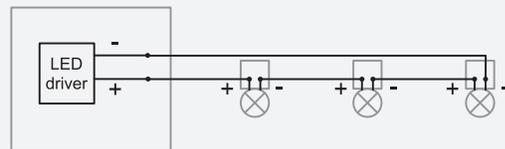
Luminaires must be connected on separate channels (1-4).
Multiple luminaires can be connected in series on a channel
(home run or fixture chain).
Do not exceed the wattage and voltage range on each channel.

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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: ⅛" to 1⅛" (3mm - 29mm)
Trimless: ⅝" (16mm)
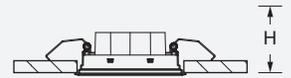
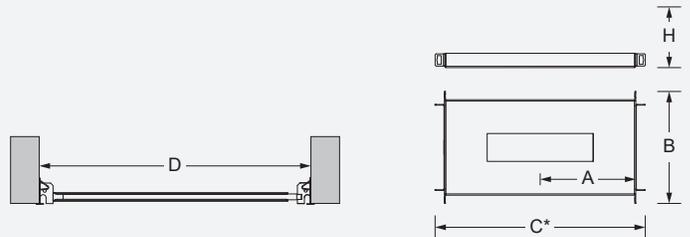| Model			Cut-out dimensions	Clearance (H)
ILB05	TR		1½" x 5⁹⁄₁₆" (37 x 141mm)	2½" (64mm)
	TL	TK-LB05TL-RF	1⅜" x 5⁹⁄₁₆" (35 x 141mm)	

*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: ⅛" to 1⅛" (3mm to 29mm)
Trimless: ⅝" (16mm)

*Provide a minimum of 1⅞" (46mm) on each side for the hanger bar fixations

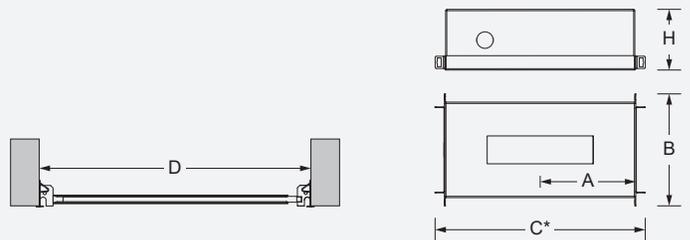| Model	Plaster frame	Cut-out dimensions	Cut-out positions (A)	Overall dimensions (BxC)	Hanger bars range (D)	Clearance (H)
ILB05	BN-LB05TR-NC	1½" x 5⁹⁄₁₆" (37 x 141mm)	5¼" (133mm)	5⅞" x 11" (150 x 280mm)	9" to 15¼" (229 to 387mm)	2½" (64mm)
	BN-LB05TL-NC	1⅜" x 5⁹⁄₁₆" (35 x 141mm)				

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: ⅛" - 1⅛" (3mm - 29mm)
Trimless: ⅝" (16mm)

*Provide a minimum of 1⅞" (46mm) on each side for the hanger bar fixations

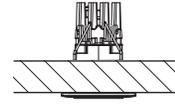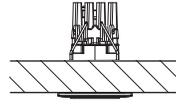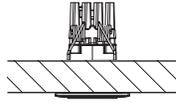| Model	Housing	Cut-out dimensions	Cut-out positions (A)	Overall dimensions (BxC)	Hanger bars range (D)	Clearance (H)
ILB05	BI-LB05TR-IC-REM	1½" x 5⁹⁄₁₆" (37 x 141mm)	5¼" (133mm)	5⅞" x 11" (150 x 280mm)		3³⁄₁₆" (81mm)
	BI-LB05TL-IC-REM	1⅜" x 5⁹⁄₁₆" (35 x 141mm)				
ILB10	BI-LB10TR-IC-REM	1½" x 10¹³⁄₁₆" (37 x 274mm)	8⅞" (223mm)	5⅝" x 18⅛" (144 x 430mm)	14¼" to 26" (362 to 660mm)	3½" (89mm)
	BI-LB10TL-IC-REM	1⅜" x 10¹³⁄₁₆" (35 x 271mm)				
ILB15	BI-LB15TR-IC-REM	1½" x 16" (37 x 406mm)	13⅛" (332mm)	9½" x 25" (242 x 635mm)		
	BI-LB15TL-IC-REM	1⅜" x 15¹⁵⁄₁₆" (37 x 404mm)				

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TRIM MODELS DIMENSIONS

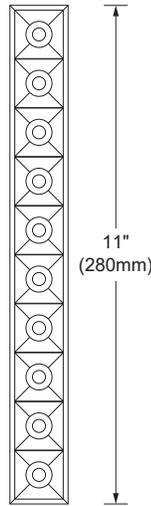| ILB05	ILB10	ILB15

FRONT VIEW

1¾"
(44mm)

1¾"
(44mm)

1¾"
(44mm)

5⅞"
(148mm)

11"
(280mm)

16¼"
(413mm)

BOTTOM VIEW

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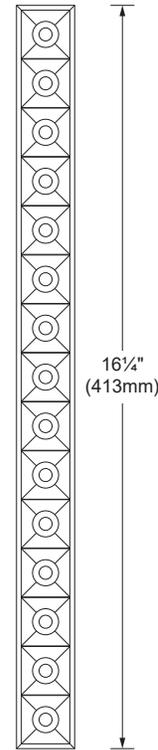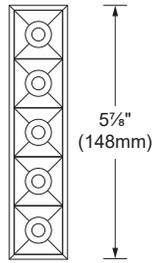
TRIMLESS MODELS DIMENSIONS

ILB05	ILB10	ILB15

FRONT VIEW

1³⁄₁₆"
(30mm)

1³⁄₁₆"
(30mm)

1³⁄₁₆"
(30mm)

5¼"
(132mm)

10⅜"
(264mm)

15⅝"
(396mm)

BOTTOM VIEW
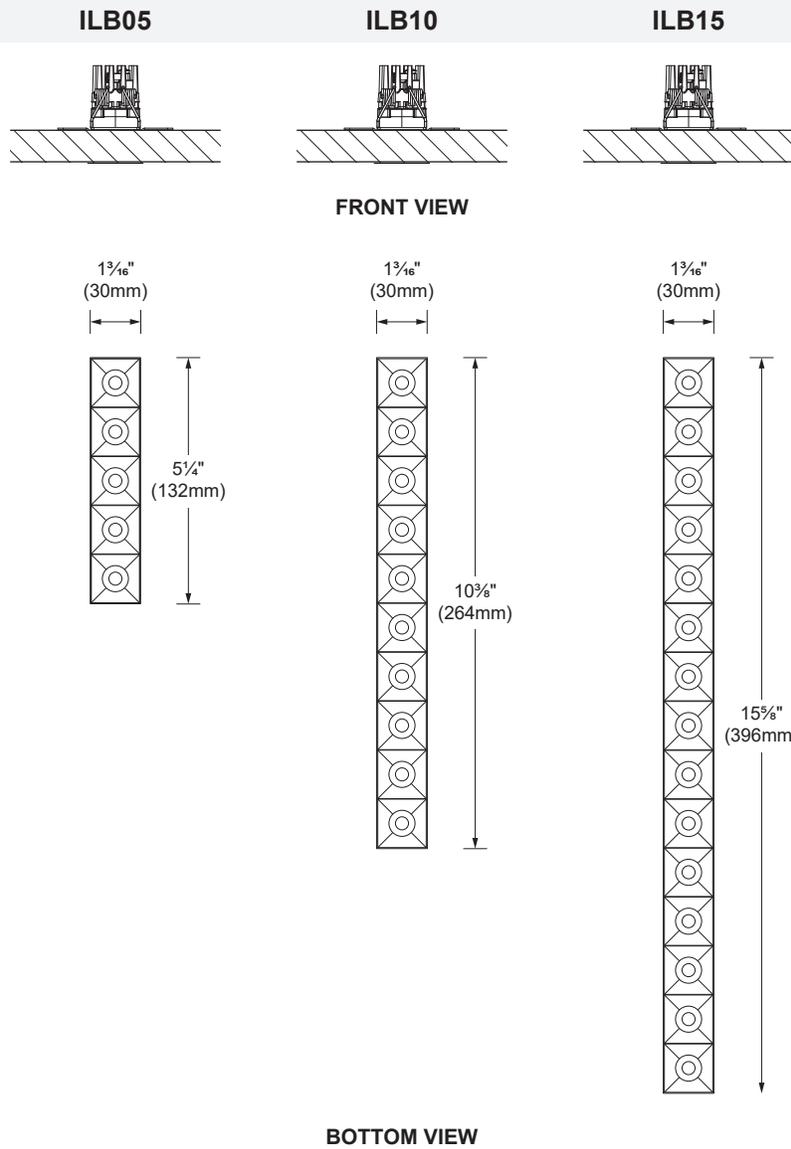
Visual comfort UGR < 16.

LED and mini reflector
retracted from aperture

Anti-glare

Cut off
30°

Glare comfort
Cut off
58°

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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

1 This data may be subjected to change.

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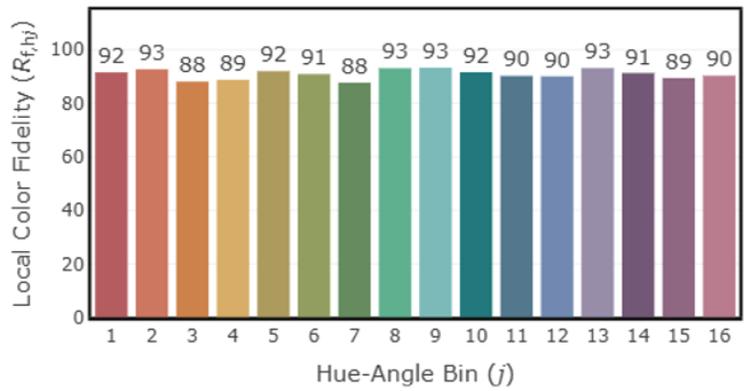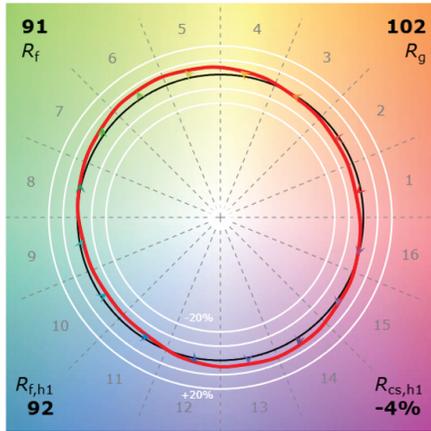
PHOTOMETRIC DATA

ILB05

(3000K, 92CRI) • Wide Flood 47°

(ILB05-030-WF)

CD 0		Center beam fc	Beam width ft
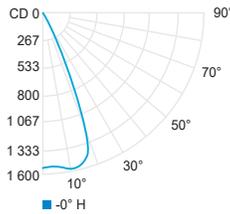
	Center beam fc	Beam width ft	
2ft	376	1.7	1.8
4ft	94	3.4	3.7
6ft	41.8	5.2	5.5
8ft	23.5	6.9	7.4
10ft	15.0	8.6	9.2
12ft	10.4	10.3	11.1

CD 0: 267, 533, 800, 1 067, 1 333, 1 600

■ -0° H

Power: 13.0W
Lumens: 1,028 lm
Efficacy: 78 lm/W
Max candela: 1,842 cd

Photometric data multiplier	
Color temperature	Lumens (lm)
2700K	0.93
3000K	1.00
3500K	1.03
4000K	1.03

ILB10

(3000K, 92CRI) • Wide Flood 47°

(ILB10-030-WF)
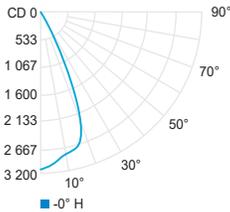
	Center beam fc	Beam width ft	
2ft	752	1.7	1.8
4ft	188	3.4	3.7
6ft	83.5	5.2	5.5
8ft	47.0	6.9	7.4
10ft	30.1	8.6	9.2
12ft	20.9	10.3	11.1

CD 0: 533, 1 067, 1 600, 2 133, 2 667, 3 200

■ -0° H

Power: 25.0W
Lumens: 2, 056 lm
Efficacy: 82 lm/W
Max candela: 3,685 cd

Photometric data multiplier	
Color temperature	Lumens (lm)
2700K	0.93
3000K	1.00
3500K	1.03
4000K	1.04

ILB15

(3000K, 92CRI) • Wide Flood 47°

(ILB15-030-WF)
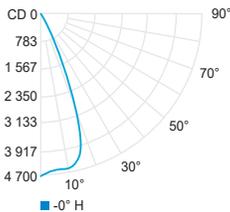
	Center beam fc	Beam width ft	
2ft	1 124	1.7	1.8
4ft	281	3.4	3.7
6ft	125	5.2	5.5
8ft	70.3	6.9	7.4
10ft	45.0	8.6	9.2
12ft	31.2	10.3	11.1

CD 0: 783, 1 567, 2 350, 3 133, 3 917, 4 700

■ -0° H

Power: 36.5W
Lumens: 3,076 lm
Efficacy: 84 lm/W
Max candela: 5,511 cd

Photometric data multiplier	
Color temperature	Lumens (lm)
2700K	0.93
3000K	1.00
3500K	1.03
4000K	1.04

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