

Laser blade original is a collection of recessed downlights for architectural applications. The luminaires are equipped with high performance Opti Beam optics system for low luminance downlights (UGR < 10). Laser blade original is available in 5 aperture sizes, trim or trimless, 5 distributions, generous outputs of up to 2445 lumens and excellent chromatic performance .

NOW ASSEMBLED IN NORTH AMERICA.

Luminaire characteristic:

Power input: 3.5W to 13W (system wattage)
Lumens: 165lm to 825lm (for 3000K, 90CRI)
Luminaire efficacy: up to 63lm/W

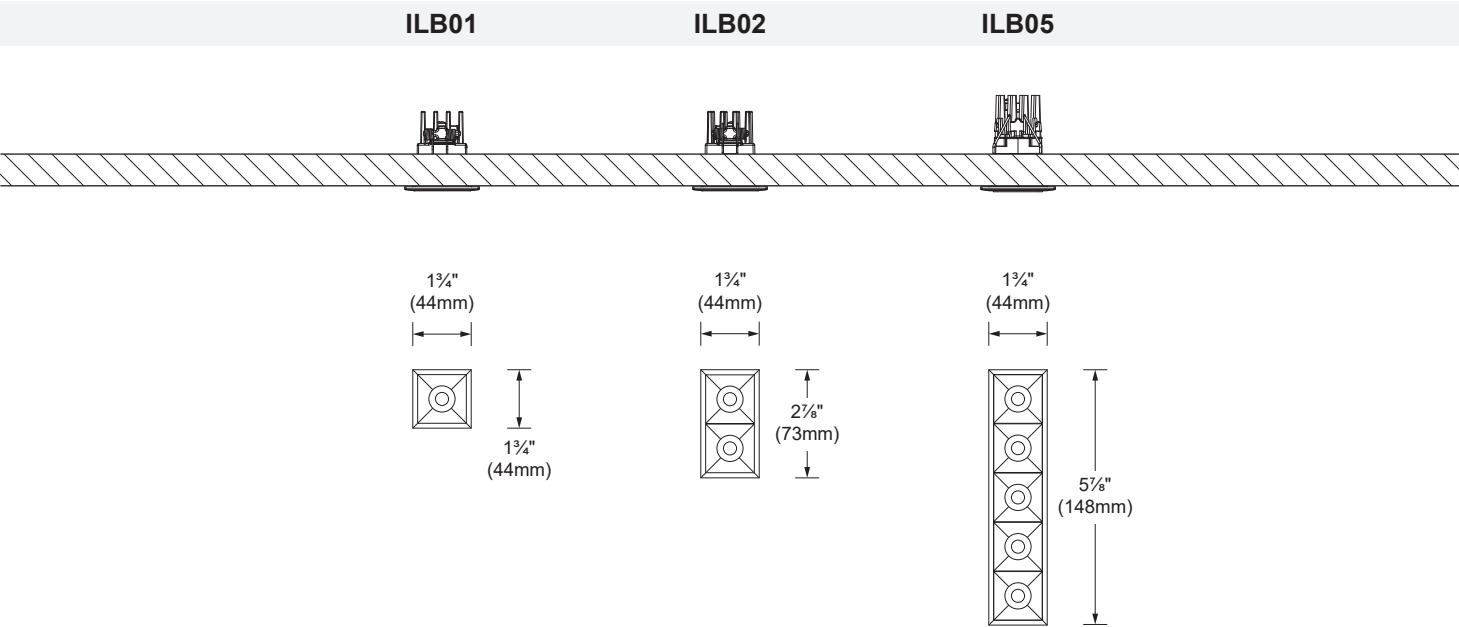
Source:	White LED module (LM-80) 2700K: 95CRI, 3000K: 90CRI, 95CRI, 3500K: 95CRI, 4000K: 95CRI.
Lumen maintenance:	90% of initial lumens at 50 000 hours (L90) (LM-79).
Optics:	Low luminance: Spot, flood, wide flood and general light pro optic with Opti Beam technology.
Material:	Body and heat sink: Die-cast aluminum Reflector and baffle: Thermoplastic Plaster frame: Galvanized steel
Mounting:	New construction plaster frame suitable for insulated ceiling.
Electrical:	High efficiency LED driver, rated at 50 000 hours. See remote LED driver options on page 7.
Finish:	Black, white (RAL9010) and grey (RAL9006) (page 6).
Weight:	ILB01: 0.11lbs (0.05kg) ILB02: 0.20lbs (0.09kg) ILB05: 0.66lbs (0.30kg)
Warranty:	5 year limited warranty.
Ratings:	IP20, IP23 (from under the ceiling)
Certification:	cULus listed for damp location. Interior use only.



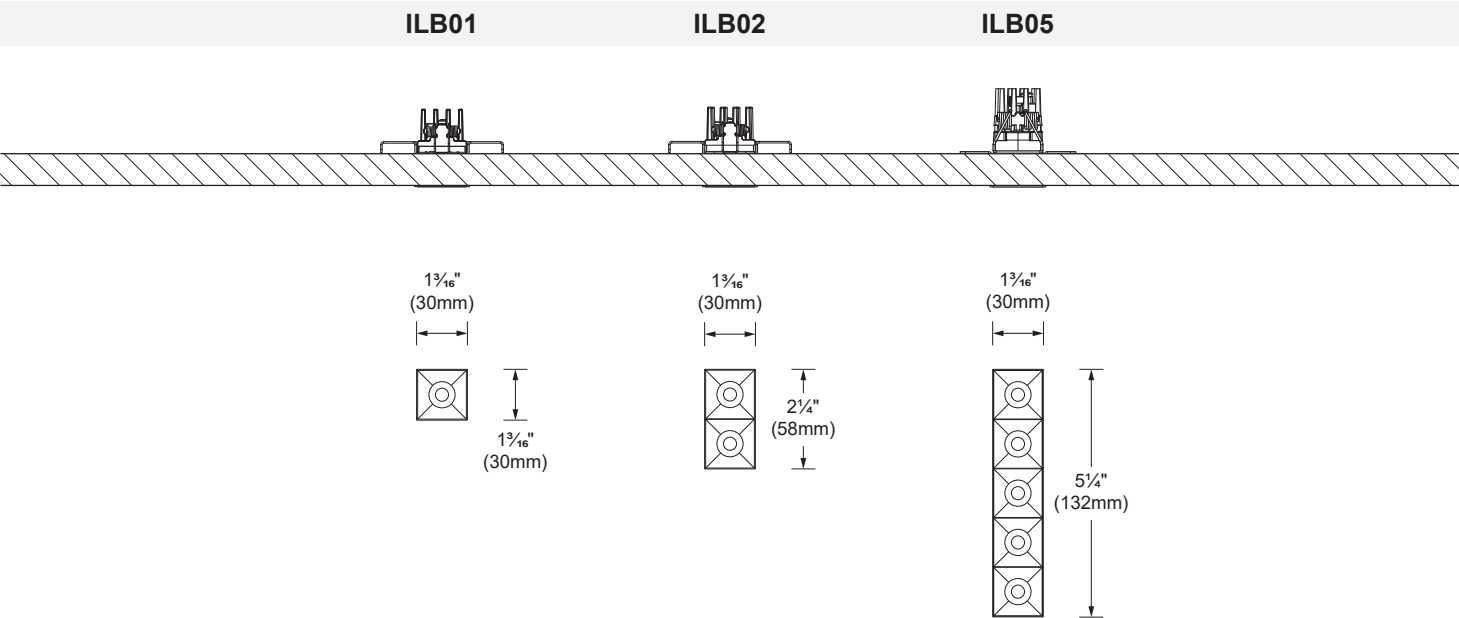
Energy star certified product (except ILB01/ILB02).
 To confirm which versions are certified, please consult the product list: www.energystar.gov/productfinder

Assembled in North America.

TRIM MODELS DIMENSIONS



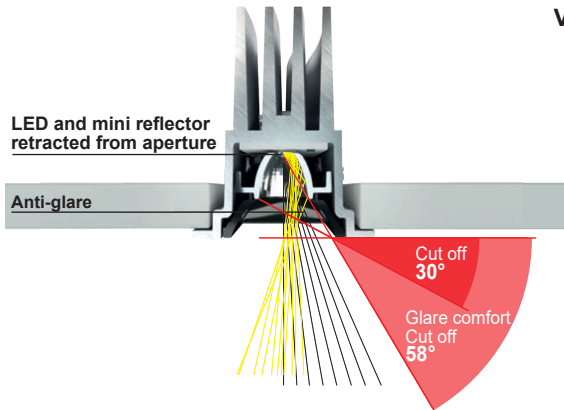
TRIMLESS MODELS DIMENSIONS



BOTTOM VIEW

* See page 5 for installation option details

Visual comfort UGR < 10.



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
90	3000K	91	94	96	91	91	93	92	80	54	86	91	83	92	97	97	91	100	0.535
95	2700K	100	99	94	97	99	98	99	97	89	94	96	90	100	96	98	96	101	0.503
	3000K	98	99	95	96	99	98	98	97	93	97	93	93	98	96	100	96	103	0.569
	3500K	97	94	90	95	95	92	95	96	89	86	96	84	96	94	95	98	101	0.633
	4000K	99	99	97	97	97	97	97	96	94	97	99	76	99	98	96	92	98	0.751

PHOTOMETRIC DATA

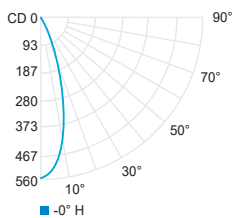
ILB01



CCT (K)*	CRI	LOAD (W)	OPTIC	LUMENS (lm)	EFFICACY (lm / w)	MAX CANDELA (cd)	MODELS
3000K	90	3.5W	Flood 32°	165	47	550	ILB01-930-FL

*USE MULTIPLIER TABLE FOR OTHER CCT AND CRI OUTPUT DATA

Flood 32° (3000K, 90 CRI)



	Center beam fc	Beam width ft
2ft	139	1.1
4ft	34.8	2.3
6ft	15.5	3.4
8ft	8.70	4.5
10ft	5.57	5.7
12ft	3.87	6.8

CCT options	2700K	3000K	3500K	4000K	3000K
CRI options	95CRI	95CRI	95CRI	95CRI	90CRI
Multiplier	0.85	0.92	1	1	1

PHOTOMETRIC DATA

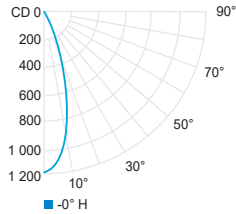
ILB02



CCT (K)*	CRI	LOAD (W)	OPTIC	LUMENS (lm)	EFFICACY (lm / w)	MAX CANDELA (cd)	MODELS
3000K	90	6.5W	Flood 32°	330	50	1 110	ILB02-930-FL

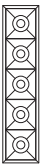
*USE MULTIPLIER TABLE FOR OTHER CCT AND CRI OUTPUT DATA

Flood 32° (3000K, 90 CRI)



Center beam fc	Beam width ft
2ft 278	1.1
4ft 69.6	2.3
6ft 30.9	3.4
8ft 17.4	4.5
10ft 11.1	5.7
12ft 7.73	6.8

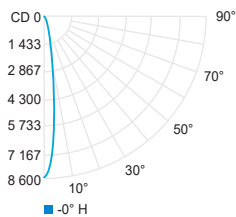
ILB05



CCT (K)*	CRI	LOAD (W)	OPTIC	LUMENS (lm)	EFFICACY (lm / w)	MAX CANDELA (cd)	MODELS
3000K	90	13W	Spot 12°	785	60	8 555	ILB05-930-SP
			Flood 32°	795	60	2 740	ILB05-930-FL
			Wide flood 48°	825	63	1 465	ILB05-930-WF
			General light pro	715	55	985	ILB05-930-GP

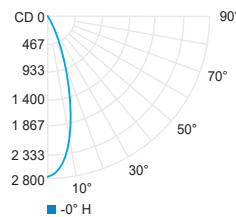
*USE MULTIPLIER TABLE FOR OTHER CCT AND CRI OUTPUT DATA

Spot 12° (3000K, 90 CRI)



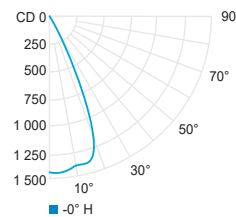
Center beam fc	Beam width ft
2ft 2 139	0.4
4ft 535	0.9
6ft 238	1.3
8ft 134	1.8
10ft 85.6	2.2
12ft 59.4	2.7

Flood 32° (3000K, 90 CRI)



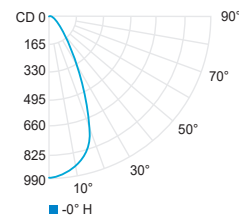
Center beam fc	Beam width ft
2ft 685	1.1
4ft 171	2.2
6ft 76.1	3.4
8ft 42.8	4.5
10ft 27.4	5.6
12ft 19.0	6.7

Wide flood 48° (3000K, 90 CRI)



Center beam fc	Beam width ft
2ft 366	1.8
4ft 91.6	3.5
6ft 40.7	5.3
8ft 22.9	7.0
10ft 14.7	8.8
12ft 10.2	10.6

General light pro (3000K, 90 CRI)



Center beam fc	Beam width ft
2ft 247	1.8
4ft 61.8	3.6
6ft 27.5	5.4
8ft 15.4	7.3
10ft 9.89	9.1
12ft 6.86	10.9

CCT options	2700K	3000K	3500K	4000K	3000K
CRI options	95CRI	95CRI	95CRI	95CRI	90CRI
Multiplier	0.85	0.92	1	1	1

INSTALLATION

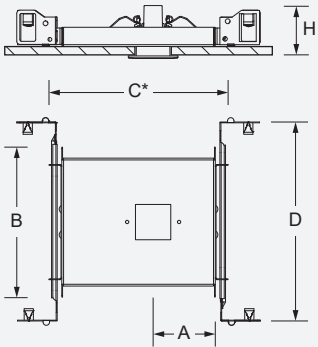
New construction with plaster frame (NC)

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: 1/8" to 1 1/8" (3mm to 29mm)

Trimless: 5/8" (16mm)



*Provide a minimum of 1 7/8" (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)
ILB01	BN-LB01TR-NC	1⅜" x 1⅝" (35 x 35mm)	6⅞" (174mm)	5⅞" x 7" (149 x 178mm)	9" to 15¼" (229 to 387mm)	2½" (64mm)
	BN-LB01TL-NC					
ILB02	BN-LB02TR-NC	1⅜" x 2½" (35 x 64mm)	6⅝" (160mm)			
	BN-LB02TL-NC					
ILB05	BN-LB05TR-NC	1½" x 5⅞" (37 x 141mm)	5¼" (133mm)	5⅞" x 11" (149 x 279mm)		
	BN-ILB05TL-NC	1⅜" x 5⅞" (35 x 141mm)				

LASER BLADE ORIGINAL

DOWNLIGHT - NEW CONSTRUCTION WITH PLASTER FRAME - REMOTE

Type:

Project :

SPECIFICATION SHEET

Page: 6 of 7

ORDERING INFO

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

BN - LB - **- NC**
HOUSING

MODEL

☐ **01** - Single

☐ **02** - Double

☐ **05** - Five

MOUNTING

☐ **TR** - Trim

☐ **TL** - Trimless

INSTALLATION TYPE

☒ **NC** - New construction

LED

☐ **027** - 2700K, 95CRI

☐ **030** - 3000K, 95CRI

☐ **035** - 3500K, 95CRI

☐ **040** - 4000K, 95CRI

☐ **930** - 3000K, 90CRI

OPTIC

☐ **SP** - Spot 12°⁽¹⁾

☐ **FL** - Flood 32°

☐ **WF** - Wide flood 48°⁽¹⁾

☐ **GP** - General light pro⁽¹⁾

VOLTAGE

☒ **REM** - with remote power supply

☐ **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 t rim

☐ **02** - Black/Black

Trimless

☐ **02** - Black

☒ **White baffle**

☐ **31** - White/White

☐ **31** - White

⁽¹⁾ Available for the five (**05**) model.

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

REMOTE LED DRIVER OPTIONS (TO BE ORDERED SEPARATELY)

							ILB01 2.1W*	ILB02 4.2W*	ILB05 10.5W*
Watts	Voltage	Rated	Dimming protocol	Dimming range	Dimensions	Max distance**	Min-max units		
4444-0700-011-UNV-ND							3-4	2	
11	120-277V	Indoor	None	None	6" x 4" x 3" (152 x 102 x 76mm)	30ft(9m)			
4450-0700-012-120-LTE							2-5	1-2	1
12	120V	Indoor	Leading and trailing edge (ELV and TRIAC)	Down to ±15%	8" x 8" x 4" (203 x 203 x 102mm)	30ft(9m)			
4443-0700-014-UNV-D2							5-6	3	1
14	120-277V	Indoor	Lutron Hi Lume® 1% EcoSystem™ (Soft-on, Fade to Black)	Down to ±1%	5" x 4" x 3" (127 x 102 x 76mm)	30ft(9m)			
4443-0700-014-120-D3							3-6	2-3	1
14	120V	Indoor	Lutron Hi Lume® 1% 2-wire (120V forward phase only)	Down to ±1%	5" x 4" x 3" (127 x 102 x 76mm)	30ft(9m)			
4444-0700-022-120-LTE							4-9	2-4	1-2
22	120V	Indoor	Leading and trailing edge (ELV and TRIAC)	Down to ±15%	6" x 4" x 3" (152 x 102 x 76mm)	30ft(9m)			
4443-0700-025-UNV-D2							8-11	4-5	2
25	120-277V	Indoor	Lutron Hi Lume® 1% EcoSystem™ (Soft-on, Fade to Black)	Down to ±1%	5" x 4" x 3" (127 x 102 x 76mm)	30ft(9m)			
4443-0700-026-120-D3							6-11	3-5	2
26	120V	Indoor	Lutron Hi Lume® 1% 2-wire (120V forward phase only)	Down to ±1%	5" x 4" x 3" (127 x 102 x 76mm)	30ft(9m)			
4450-0700-030-UNV-SD10							1-13	1-6	1-2
30	120-277V	Indoor	0-10V ELDOLED SOLOdrive	Down to ±0.1%	8" x 8" x 4" (203 x 203 x 102mm)	118ft(36m)			
4443-0700-035-UNV-D2							11-15	6-7	3
35	120-277V	Indoor	Lutron Hi Lume® 1% EcoSystem™ (Soft-on, Fade to Black)	Down to ±1%	5" x 4" x 3" (127 x 102 x 76mm)	30ft(9m)			
4443-0700-037-120-D3							11-16	6-8	3
37	120V	Indoor	Lutron Hi Lume® 1% 2-wire (120V forward phase only)	Down to ±1%	5" x 4" x 3" (127 x 102 x 76mm)	30ft(9m)			
4445-0700-040-120-LTE							13-16	6-8	3
40	120V	Indoor	Leading and trailing edge (ELV and TRIAC)	Down to ±15%	6" x 6" x 3" (152 x 152 x 76mm)	30ft(9m)			
4450-0700-038-UNV-ED10							1-16	1-8	1-3
38	120-277V	Indoor	0-10V ELDOLED ECOdrive	Down to ±1%	8" x 8" x 4" (203 x 203 x 102mm)	118ft(36m)			
4448-0700-100-UNV-SD10 (4 channels)							1-44 11/channel	1-20 5/channel	1-8 2/channel
100	120-277V	Indoor	0-10V ELDOLED SOLOdrive	Down to ±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)

