

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 3194 lumens and excellent chromatic performance.

CCT (K)	CRI	MODEL	OPTIC	SYSTEM POWER (W)	LUMENS (lm)	EFFICACY (lm / W)	MAX CANDELA (cd)	
3000	92	1 cell	Flood 13°	3.0	204	65	697	
		2 cells	Flood 13°	6.0	401	66	1 394	
		5 cells	Spot 13°	13.0	1 016	77	8 581	
			Flood 13°	13.0	1 015	77	3 464	
			Wide Flood 13°	13.0	1 028	78	1 738	
		10 cells	Spot 13°	25.0	2 032	81	17 161	
			Flood 13°	25.0	2 032	73	6 927	
		15 cells	Wide Flood 47°	25.0	1 836	93	3 105	
			Spot 13°	36.5	3 039	83	25 662	
			Flood 13°	36.5	3 039	83	10 359	
				Wide Flood 13°	36.5	3 076	84	5 200

N.B.: More optics available.

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: Low luminance: Spot 13°, flood 32°, wide flood 47°, general light pro, medium oval transversal or longitudinal and wide flood oval transversal or longitudinal optics with Opti Beam 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, white (RAL9010) and gray (RAL9006) (page 2).

Weight: ILB01: 0.11lb (0.05kg)
ILB02: 0.20lb (0.09kg)
ILB05: 0.66lb (0.30kg)
ILB10: 1.32lb (0.60kg)
ILB15: 1.90lb (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)
ILB01 01 cell	TR Trim	RF ¹ Remodel	027 ⁴ 2700K, 92CRI	SP ² Spot 13°	REM Remote	TRIM
ILB02 02 cells	TL Trimless	NC ¹ New construction plaster frame	030 ⁴ 3000K, 92CRI	FL Flood 32°	<input type="checkbox"/>	01 White / black
ILB05 05 cells		IC ² New construction insulated ceiling	035 ⁴ 3500K, 92CRI	WF ² Wide flood 47°	POE Power over ethernet. (consult customer service)	31 White / white
ILB10 10 cells		UC ³ Undercabinet	040 ⁴ 4000K, 92CRI	GP ² General light pro		02 Black / black
ILB15 15 cells				LM ⁵ Medium oval longitudinal		10 Gray / black
				TM ⁵ Medium oval transversal		TRIMLESS
				LW ⁶ Wide flood oval longitudinal		31 White
				TW ⁶ Wide flood oval transversal		02 Black
						Black baffle
						White baffle

1 Available for 01 cell (01), 02 cells (02) or 05 cells (05) models.
 2 Available for 05 cells (05), 10 cells (10) or 15 cells (15) models.
 3 Only available with trim (TR) mounting.
 4 92CRI typical - 90CRI minimum.
 5 Available for 05 cells (05) model.
 6 Available for 05 cells (05) or 10 cells (10) models.
 * Custom baffle finish available, contact customer service for details.

REMOTE LED DRIVER OPTIONS (TO BE ORDERED SEPARATELY)

PRODUCT CODE (COMPLETE ON THE PREVIOUS PAGE)

Indoor rated drivers

Driver box model	Min-max units				
	ILB01 2W*	ILB02 3.8W*	ILB05 9.8W*	ILB10 20W*	ILB15 29W*
4444-0700-011-UNV-ND	3-4	2			
4450-0700-012-120-LTE	2-5	1-2	1		
4443-0700-014-UNV-D2	5-6	3	1		
4444-0700-022-120-LTE	4-9	2-4	1-2	1	
4443-0700-025-UNV-D2	8-11	4-5	2	1	
4450-0700-030-UNV-SD10	1-13	1-6	1-2	1	
4443-0700-035-UNV-D2	11-15	6-7	3		1
4445-0700-040-120-LTE	13-16	6-8	3		1
4450-0700-038-UNV-ED10	1-16	1-8	1-3	1	1
4448-0700-100-UNV-SD10 (4 channels)	1-44 11 max. per channel	1-20 5 max. per channel	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 customer service.

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

DRIVER CODE SELECTION

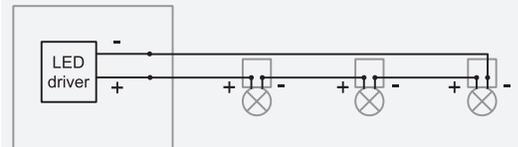
Complete the ordering info to activate the driver code selection menu.

MODEL	CONSTANT CURRENT	WATTAGE	VOLTAGE	DIMMING PROTOCOL
4443 L 5" x W 4" x H 3" (L 127 x W 102 x H 76mm)	0600 600mA	011 to 100 11W to 100W	120 120V	ND No dimming Max distance: 9m (30ft)**
4444 L 6" x W 4" x H 3" (L 152 x W 102 x H 76mm)	0650 650mA		UNV 120-277V	D2 Lutron Hi Lume® 1% EcoSystem™ (Soft-on, Fade to Black) Max distance: 9m (30ft)** (down to 1%)
4445 L 6" x W 6" x H 3" (L 152 x W 152 x H 76mm)	0700 700mA			ED10 0-10V ELDOLED ECOdrive Max distance: 36m (118ft)** (down to 1%)
4448 L 10" x W 8" x H 4" (L 254 x W 203 x H 102mm)				SD10 0-10V ELDOLED SOLOdrive Max distance: 36m (118ft)** (down to 0.1%)
4450 L 8" x W 8" x H 4" (L 203 x W 203 x H 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.

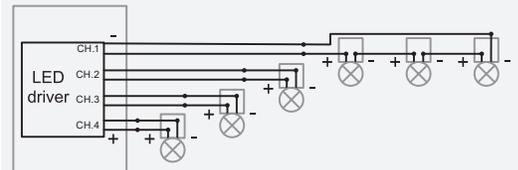
WIRING DIAGRAMS

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.



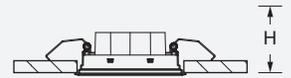
INSTALLATION

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: 1/8" to 1/8" (3mm - 29mm)
Trimless: 3/8" (16mm)



Model		Trimless frame	Cut-out dimensions	Clearance (H)
ILB01	TR		1 3/8" x 1 3/8" (35 x 35mm)	2 1/2" (64mm)
	TL	TK-LB01TL-RF		
ILB02	TR		1 3/8" x 2 1/2" (35 x 64mm)	
	TL	TK-LB02TL-RF		
ILB05	TR		1 1/2" x 5 5/8" (37 x 141mm)	
	TL	TK-LB05TL-RF	1 3/8" x 5 5/8" (35 x 141mm)	

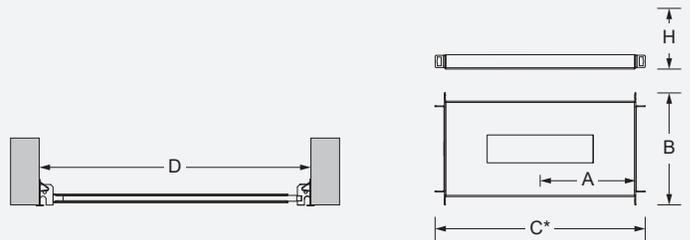
*Can be installed from below the ceiling.

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: 1/8" to 1/8" (3mm to 29mm)
Trimless: 3/8" (16mm)



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

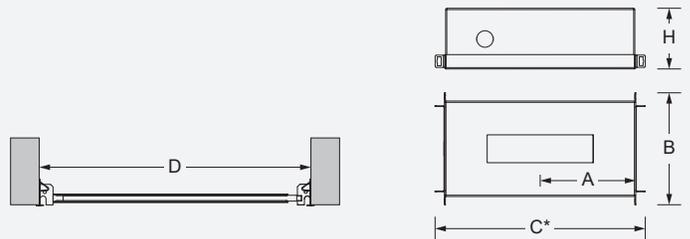
Model	Plaster frame	Cut-out dimensions	Cut-out positions (A)	Overall dimensions (BxC)	Hanger bars range (D)	Clearance (H)
ILB01	BN-LB01TR-NC	1 3/8" x 1 3/8" (35 x 35mm)	6 5/8" (174mm)	5 1/2" x 7" (150 x 178mm)	9" to 15 1/4" (229 to 387mm)	2 1/2" (64mm)
	BN-LB01TL-NC					
ILB02	BN-LB02TR-NC	1 3/8" x 2 1/2" (35 x 64mm)	5 5/8" (160mm)			
	BN-LB02TL-NC					
ILB05	BN-LB05TR-NC	1 1/2" x 5 5/8" (37 x 141mm)	5 1/4" (133mm)			
	BN-LB05TL-NC	1 3/8" x 5 5/8" (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: 1/8" - 1/8" (3mm - 29mm)
Trimless: 3/8" (16mm)



*Provide a minimum of 1/8" (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	1 1/2" x 5 5/8" (37 x 141mm)	5 1/4" (133mm)	5 1/2" x 11" (150 x 280mm)	14 1/4" to 26" (362 to 660mm)	3 3/8" (81mm)	
	BI-LB05TL-IC-REM	1 3/8" x 5 5/8" (35 x 141mm)					
ILB10	BI-LB10TR-IC-REM	1 1/2" x 10 9/16" (37 x 274mm)	8 3/8" (223mm)			5 5/8" x 18 3/8" (144 x 430mm)	3 1/2" (89mm)
	BI-LB10TL-IC-REM	1 3/8" x 10 9/16" (35 x 271mm)					
ILB15	BI-LB15TR-IC-REM	1 1/2" x 16" (37 x 406mm)	13 3/8" (332mm)			9 1/2" x 25" (242 x 635mm)	
	BI-LB15TL-IC-REM	1 3/8" x 15 5/8" (37 x 404mm)					

Under cabinet installation (UC)

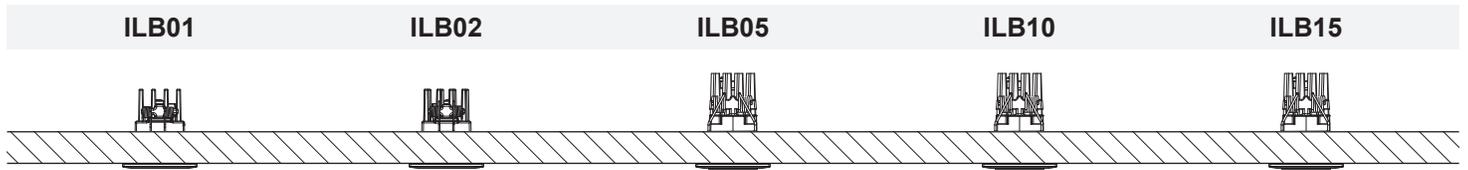
Low profile installation in confined spaces, such as cabinets, shelves and closets. Not suitable for ceiling installation. (Power supply is not accessible from luminaire opening)

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

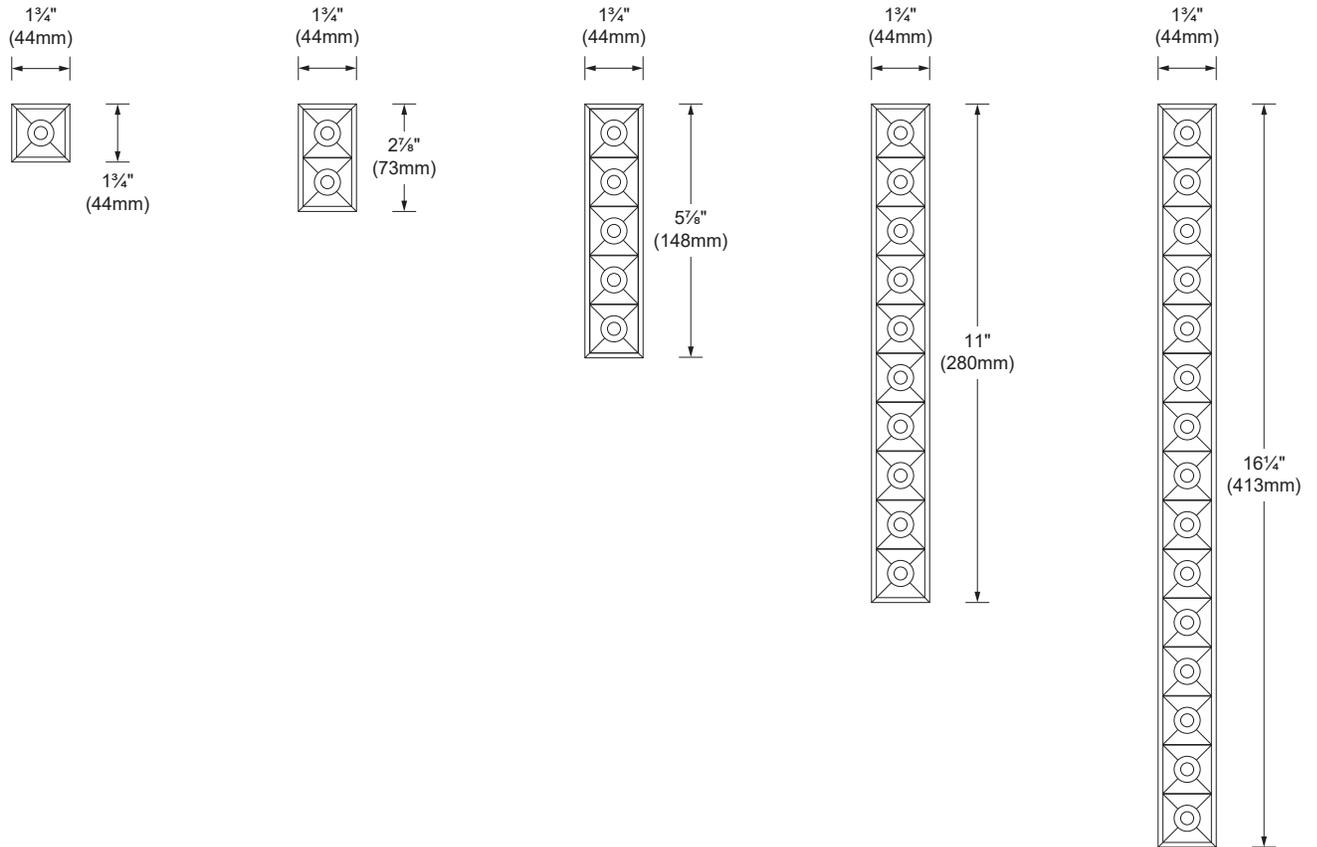


Model		Cut-out dimensions	Clearance (H)
ILB01	TR	1 3/8" x 1 3/8" (35 x 35mm)	2 1/2" (64mm)
ILB02	TR	1 3/8" x 2 1/2" (35 x 64mm)	
ILB05	TR	1 1/2" x 5 5/8" (37 x 141mm)	
ILB10	TR	1 1/2" x 10 9/16" (37 x 274mm)	
ILB15	TR	1 1/2" x 16" (37 x 406mm)	

TRIM MODELS DIMENSIONS



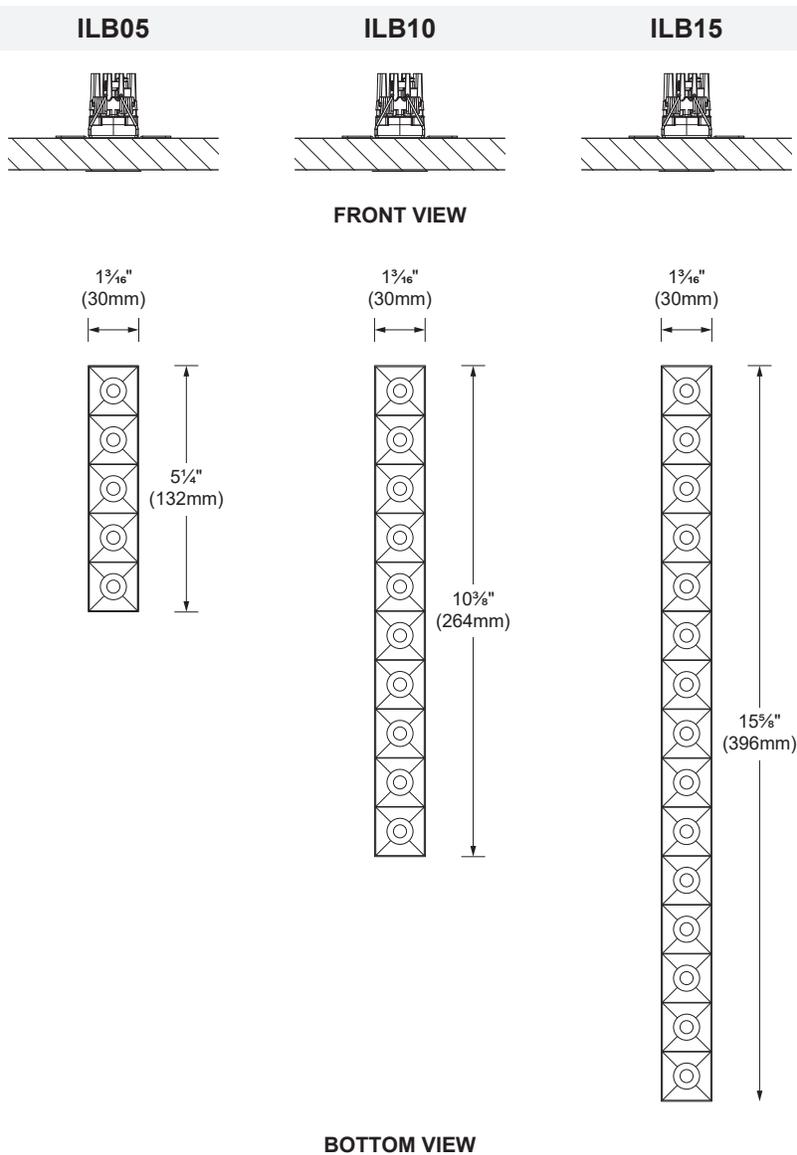
FRONT VIEW



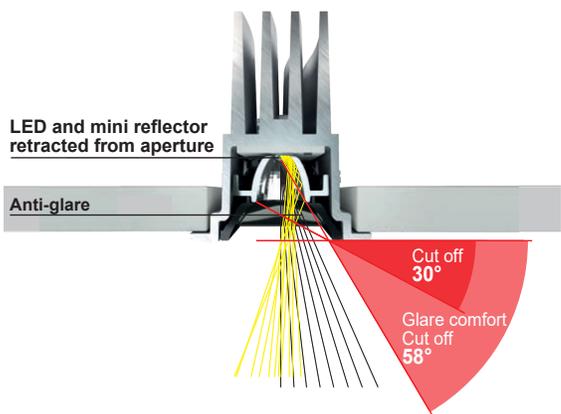
BOTTOM VIEW

* See page 8 for installation option details

TRIMLESS MODELS DIMENSIONS



Visual comfort UGR < 10.

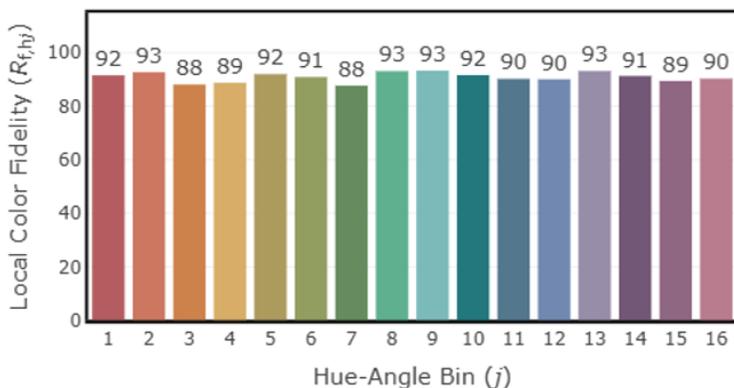
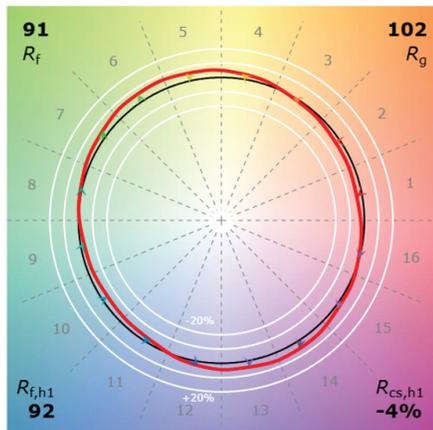


* See page 8 for installation option details

LED COLOR FIDELITY DATA

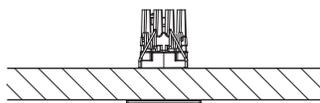
CRI	CCT	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15	Rf	Rg	Melanopic ratio
92	2700K	92	96	98	91	91	95	91	79	55	89	92	86	93	98	88	91	100	0.488
	3000K	93	97	98	92	93	95	92	82	60	91	92	82	94	99	90	92	99	0.571
	3500K	92	95	96	92	91	93	93	83	59	87	92	79	93	97	89	92	99	0.635
	4000K	93	94	94	93	92	91	94	86	64	85	93	78	93	96	90	91	100	0.715

1 This data may be subjected to change.

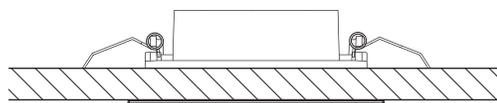


OVAL BEAM DISTRIBUTION

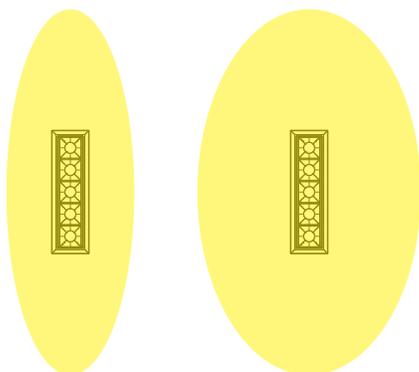
Oval Longitudinal



Oval Transversal

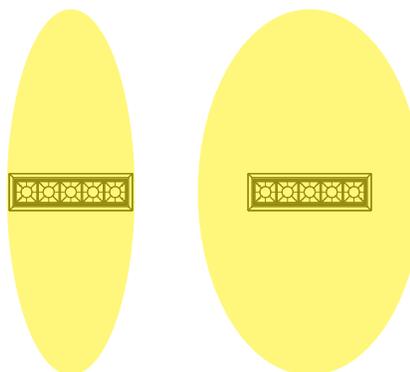


FRONT VIEW



Medium

Wide flood



Medium

Wide flood

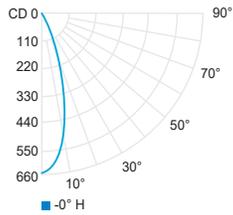
TOP VIEW

ILB01



(3000K, 92CRI) • Flood 32°

(ILB01-030-FL)



Center beam fc	Beam width ft
2ft	1.2
4ft	2.3
6ft	3.5
8ft	4.6
10ft	5.8
12ft	6.9

Power: 3.0W
Lumens: 204 lm
Efficacy: 65 lm/W
Max candela: 697 cd

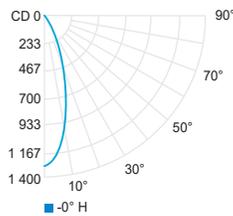
Photometric data multiplier	
Color temperature	Lumens (lm)
2700K	0.91
3000K	1.00
3500K	1.04
4000K	1.04

ILB02



(3000K, 92CRI) • Flood 32°

(ILB02-030-FL)



Center beam fc	Beam width ft
2ft	1.2
4ft	2.3
6ft	3.5
8ft	4.6
10ft	5.8
12ft	6.9

Power: 6.0W
Lumens: 409 lm
Efficacy: 66 lm/W
Max candela: 1,394 cd

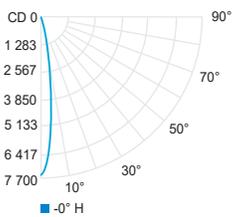
Photometric data multiplier	
Color temperature	Lumens (lm)
2700K	0.91
3000K	1.00
3500K	1.02
4000K	1.02

ILB05



(3000K, 92CRI) • Spot 13°

(ILB05-030-SP)



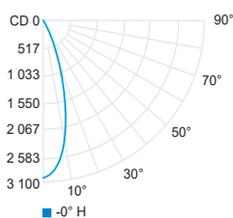
Center beam fc	Beam width ft
2ft	0.5
4ft	0.9
6ft	1.4
8ft	1.9
10ft	2.3
12ft	2.8

Power: 13.0W
Lumens: 1,016 lm
Efficacy: 77 lm/W
Max candela: 8,581 cd

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

(3000K, 92CRI) • Flood 32°

(ILB05-030-FL)



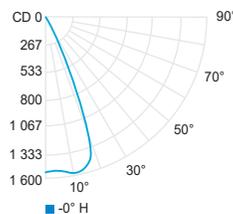
Center beam fc	Beam width ft
2ft	1.2
4ft	2.3
6ft	3.5
8ft	4.6
10ft	5.8
12ft	6.9

Power: 13.0W
Lumens: 1,015 lm
Efficacy: 77 lm/W
Max candela: 3,464 cd

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

(3000K, 92CRI) • Wide Flood 47°

(ILB05-030-WF)



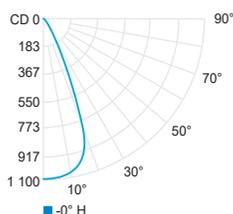
Center beam fc	Beam width ft
2ft	1.7
4ft	3.4
6ft	5.2
8ft	6.9
10ft	8.6
12ft	10.3

Power: 13.0W
Lumens: 1,028 lm
Efficacy: 78 lm/W
Max candela: 1,738 cd

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

(3000K, 92CRI) • General Light Pro

(ILB05-030-GP)



Center beam fc	Beam width ft
2ft	1.9
4ft	3.8
6ft	5.7
8ft	7.5
10ft	9.4
12ft	11.3

Power: 13.0W
Lumens: 919 lm
Efficacy: 70 lm/W
Max candela: 1,226 cd

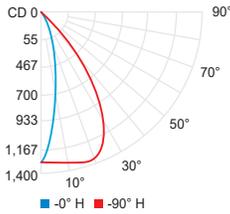
Photometric data multiplier	
Color temperature	Lumens (lm)
2700K	0.98
3000K	1.00
3500K	1.03
4000K	1.03

PHOTOMETRIC DATA

ILB05



(3000K, 92CRI) • Medium Oval Longitudinal (ILB05-030-LM)

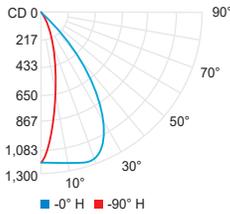


Center beam fc	Beam width ft	
2ft	327	0.8 3.0
4ft	81.8	1.6 6
6ft	36.4	2.4 9.1
8ft	20.5	3.2 12.2
10ft	13.1	4.0 15.2
12ft	9.09	4.8 18.3

Power: 13.0W
Lumens: 907 lm
Efficacy: 69 lm/W
Max candela: 1,512 cd

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

(3000K, 92CRI) • Medium Oval Transversal (ILB05-030-TM)

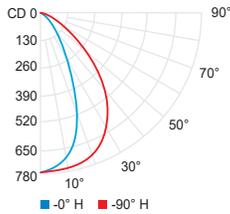


Center beam fc	Beam width ft	
2ft	297	3.1 0.8
4ft	74.3	1.6 1.6
6ft	33.0	9.2 2.4
8ft	18.6	12.3 3.3
10ft	11.9	15.3 4.1
12ft	8.26	18.4 4.9

Power: 13.0W
Lumens: 883 lm
Efficacy: 67 lm/W
Max candela: 1,406 cd

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

(3000K, 92CRI) • Wide Flood Oval Longitudinal (ILB05-030-LW)

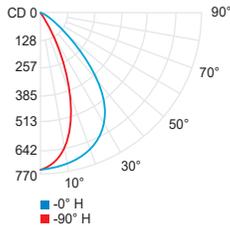


Center beam fc	Beam width ft	
2ft	191	1.5 3.6
4ft	47.8	3.1 7.2
6ft	21.2	4.6 10.8
8ft	11.9	6.2 14.4
10ft	7.64	7.7 18.0
12ft	5.31	9.2 21.6

Power: 13.0W
Lumens: 907 lm
Efficacy: 69 lm/W
Max candela: 864 cd

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

(3000K, 92CRI) • Wide Flood Oval Transversal (ILB05-030-TW)



Center beam fc	Beam width ft	
2ft	187	3.6 1.5
4ft	46.8	7.1 3.1
6ft	20.8	10.7 4.6
8ft	11.7	14.3 6.1
10ft	7.49	17.9 7.6
12ft	5.20	21.4 19.2

Power: 13.0W
Lumens: 907 lm
Efficacy: 69 lm/W
Max candela: 856 cd

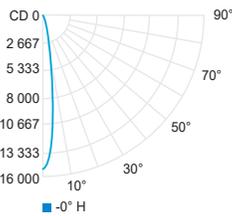
Photometric data multiplier	
Color temperature	Lumens (lm)
2700K	0.93
3000K	1.00
3500K	1.03
4000K	1.03

PHOTOMETRIC DATA

ILB10



(3000K, 92CRI) • Spot 13° (ILB10-030-SP)

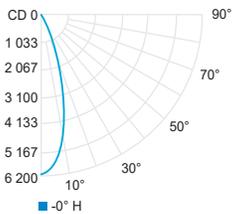


Center beam fc	Beam width ft
2ft	3 831 0.5
4ft	958 0.9
6ft	426 1.4
8ft	239 1.9
10ft	153 2.3
12ft	106 2.8

Power: 25.0W
Lumens: 2,032 lm
Efficacy: 81 lm/W
Max candela: 17,161 cd

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

(3000K, 92CRI) • Flood 32° (ILB10-030-FL)

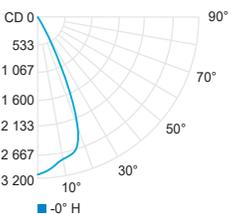


Center beam fc	Beam width ft
2ft	1 546 1.2
4ft	387 2.3
6ft	172 3.5
8ft	96.6 4.6
10ft	61.9 5.8
12ft	43.0 6.9

Power: 25.0W
Lumens: 2,032 lm
Efficacy: 73 lm/W
Max candela: 6,927 cd

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

(3000K, 92CRI) • Wide Flood 47° (ILB10-030-WF)

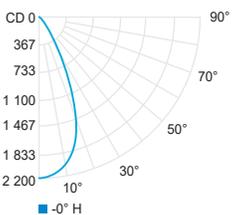


Center beam fc	Beam width ft
2ft	752 1.7 1.8
4ft	188 3.4 3.7
6ft	83.5 5.2 5.5
8ft	47.0 6.9 7.4
10ft	30.1 8.6 9.2
12ft	20.9 10.3 11.1

Power: 25.0W
Lumens: 2,056 lm
Efficacy: 93 lm/W
Max candela: 3,478 cd

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

(3000K, 92CRI) • General Light Pro (ILB10-030-GP)

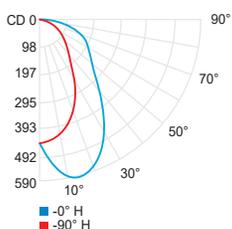


Center beam fc	Beam width ft
2ft	547 1.9
4ft	137 3.8
6ft	60.8 5.7
8ft	34.2 7.5
10ft	21.9 9.4
12ft	15.2 11.3

Power: 25.0W
Lumens: 1,839 lm
Efficacy: 73 lm/W
Max candela: 2,452 cd

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

(3000K, 92CRI) • Wide Flood Oval Longitudinal° (ILB10-030-LW)

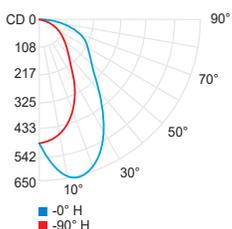


Center beam fc	Beam width ft
2ft	115 1.9 1.8
4ft	28.8 3.8 3.7
6ft	12.8 5.7 5.5
8ft	7.20 7.6 7.4
10ft	4.61 9.4 9.2
12ft	3.20 11.3 11.1

Power: 25.0W
Lumens: 1,814 lm
Efficacy: 72 lm/W
Max candela: 1,727 cd

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

(3000K, 92CRI) • Wide Flood Oval Transversal° (ILB10-030-TW)



Center beam fc	Beam width ft
2ft	127 1.8 2.3
4ft	31.7 3.6 4.6
6ft	14.1 5.4 6.8
8ft	7.92 7.2 9.1
10ft	5.07 9.0 11.4
12ft	3.52 10.8 13.7

Power: 25.0W
Lumens: 1,814 lm
Efficacy: 72 lm/W
Max candela: 1,711 cd

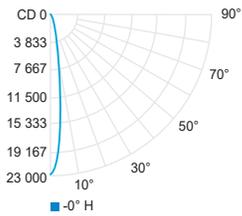
Photometric data multiplier	
Color temperature	Lumens (lm)
2700K	0.93
3000K	1.00
3500K	1.03
4000K	1.04

PHOTOMETRIC DATA

LB15



(3000K, 92CRI) • Spot 13° (ILB15-030-SP)

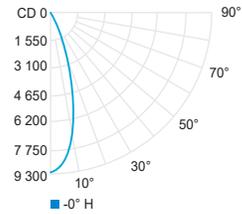


	Center beam fc	Beam width ft
2ft	5 728	0.5
4ft	1 432	0.9
6ft	636	1.4
8ft	358	1.9
10ft	229	2.3
12ft	159	2.8

Power: 36.5W
Lumens: 3,039 lm
Efficacy: 83 lm/W
Max candela: 25,662 cd

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

(3000K, 92CRI) • Flood 32° (ILB15-030-FL)

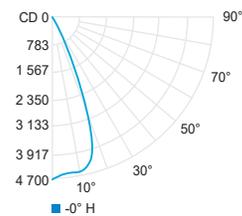


	Center beam fc	Beam width ft
2ft	2 312	1.2
4ft	578	2.3
6ft	257	3.5
8ft	145	4.6
10ft	92.5	5.8
12ft	64.2	6.9

Power: 36.5W
Lumens: 3,039 lm
Efficacy: 83 lm/W
Max candela: 10,359 cd

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

(3000K, 92CRI) • Wide Flood 47° (ILB15-030-WF)

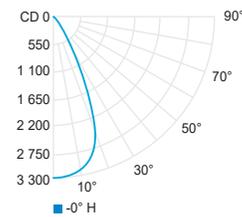


	Center beam fc	Beam width ft
2ft	1 124	1.7 1.8
4ft	281	3.4 3.7
6ft	125	5.2 5.5
8ft	70.3	6.9 7.4
10ft	45.0	8.6 9.2
12ft	31.2	10.3 11.1

Power: 36.5W
Lumens: 3,076 lm
Efficacy: 84 lm/W
Max candela: 5,200 cd

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

(3000K, 92CRI) • General Light Pro (ILB15-030-GP)



	Center beam fc	Beam width ft
2ft	821	1.9
4ft	205	3.8
6ft	91.2	5.7
8ft	51.3	7.5
10ft	32.8	9.4
12ft	22.8	11.3

Power: 36.5W
Lumens: 2 758 lm
Efficacy: 76 lm/W
Max candela: 3,678 cd

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