

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 2583 lumens and excellent chromatic performance .

NOW ASSEMBLED IN NORTH AMERICA.

Luminaire characteristic:

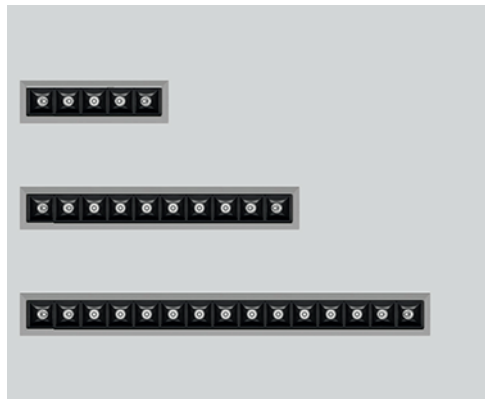
Power input: 9.8W to 29W (source wattage)
Lumens: 746lm to 2542lm (for 3000K, 92CRI)
Luminaire efficacy: up to 87lm/W

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:	Low luminance: Spot, flood, wide flood, 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:	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, white (RAL9010) and grey (RAL9006) (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.



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.



ORDERING INFO

ILB - **- IC** - **- REM** -
FIXTURE

BI - LB - **- IC - REM**
HOUSING

MODEL

☐ **05** - Five ☐ **10** - Ten ☐ **15** - Fifteen

MOUNTING

☐ **TR** - Trim ☐ **TL** - Trimless

INSTALLATION TYPE

☒ **IC** - New construction insulated ceiling

LED

☐ **027** - 2700K, 92CRI⁽¹⁾ ☐ **030** - 3000K, 92CRI⁽¹⁾ ☐ **035** - 3500K, 92CRI⁽¹⁾ ☐ **040** - 4000K, 92CRI⁽¹⁾

OPTIC

☐ **SP** - Spot 13° ☐ **FL** - Flood 32° ☐ **WF** - Wide flood 47° ☐ **GP** - General light pro ☐ **LM** - Medium oval longitudinal⁽²⁾
☐ **TM** - Medium oval transversal⁽²⁾ ☐ **LW** - Wide flood oval longitudinal⁽³⁾ ☐ **TW** - Wide flood oval transversal⁽³⁾

VOLTAGE

☒ **REM** - Remote ☐ **POE** - Power over ethernet. (consult customer service)

FINISH (trim finish / baffle finish*)

	White trim	Gray trim	Black trim	Trimless
<input checked="" type="checkbox"/> Black baffle	<input type="checkbox"/> 01 - White/Black	<input type="checkbox"/> 10 - Gray/Black	<input type="checkbox"/> 02 - Black/Black	<input type="checkbox"/> 02 - Black
<input checked="" type="checkbox"/> White baffle	<input type="checkbox"/> 31 - White/White			<input type="checkbox"/> 31 - White

⁽¹⁾ 92CRI typical - 90CRI minimum.

⁽²⁾ Available with five (05) model.

⁽³⁾ Available with five (05) and ten (10) models.

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

REMOTE LED DRIVER OPTIONS
(TO BE ORDERED SEPARATELY)

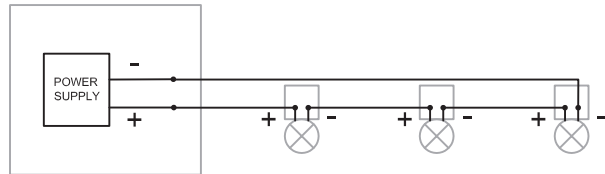
							ILB05 9.8W*	ILB10 20W*	ILB15 29W*
Watts	Voltage	Rated	Dimming protocol	Dimming range	Dimensions	Max distance**	Min-max units		
4450-0700-012-120-LTE							1		
12	120V	Indoor	Leading and trailing edge (ELV and TRIAC)	Down to $\pm 1\%$	8" x 8" x 4" (203 x 203 x 102mm)	30ft(9m)			
4443-0700-014-UNV-D2							1		
14	120-277V	Indoor	Lutron Hi Lume® 1% EcoSystem™ (Soft-on, Fade to Black)	Down to $\pm 1\%$	5" x 4" x 3" (127 x 102 x 76mm)	30ft(9m)			
4444-0700-022-120-LTE							1-2	1	
22	120V	Indoor	Leading and trailing edge (ELV and TRIAC)	Down to $\pm 15\%$	6" x 4" x 3" (152 x 102 x 76mm)	30ft(9m)			
4443-0700-025-UNV-D2							2	1	
25	120-277V	Indoor	Lutron Hi Lume® 1% EcoSystem™ (Soft-on, Fade to Black)	Down to $\pm 1\%$	5" x 4" x 3" (127 x 102 x 76mm)	30ft(9m)			
4450-0700-030-UNV-SD10							1-2	1	
30	120-277V	Indoor	0-10V ELDOLED SOLOdrive	Down to $\pm 0.1\%$	8" x 8" x 4" (203 x 203 x 102mm)	118ft(36m)			
4443-0700-035-UNV-D2							3		1
35	120-277V	Indoor	Lutron Hi Lume® 1% EcoSystem™ (Soft-on, Fade to Black)	Down to $\pm 1\%$	5" x 4" x 3" (127 x 102 x 76mm)	30ft(9m)			
4445-0700-040-120-LTE							3		1
40	120V	Indoor	Leading and trailing edge (ELV and TRIAC)	Down to $\pm 15\%$	6" x 6" x 3" (152 x 152 x 76mm)	30ft(9m)			
4450-0700-038-UNV-ED10							1-3	1	1
38	120-277V	Indoor	0-10V ELDOLED ECOdrive	Down to $\pm 1\%$	8" x 8" x 4" (203 x 203 x 102mm)	118ft(36m)			
4448-0700-100-UNV-SD10 (4 channels)							1-8 ⁽¹⁾ 2 per channel	1-4 ⁽¹⁾ 1 per channel	1-3 ⁽¹⁾ 1 per channel
100	120-277V	Indoor	0-10V ELDOLED SOLOdrive	Down to $\pm 0.1\%$	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.

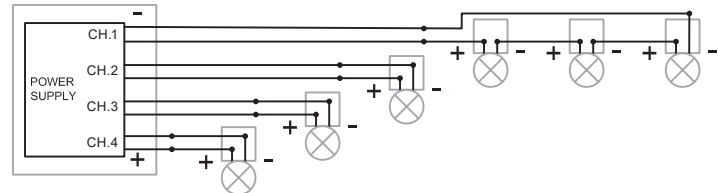
WIRING DIAGRAMS

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



⁽¹⁾ 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.

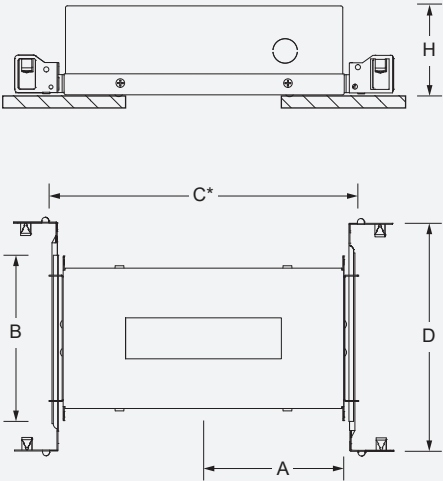


INSTALLATION

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)

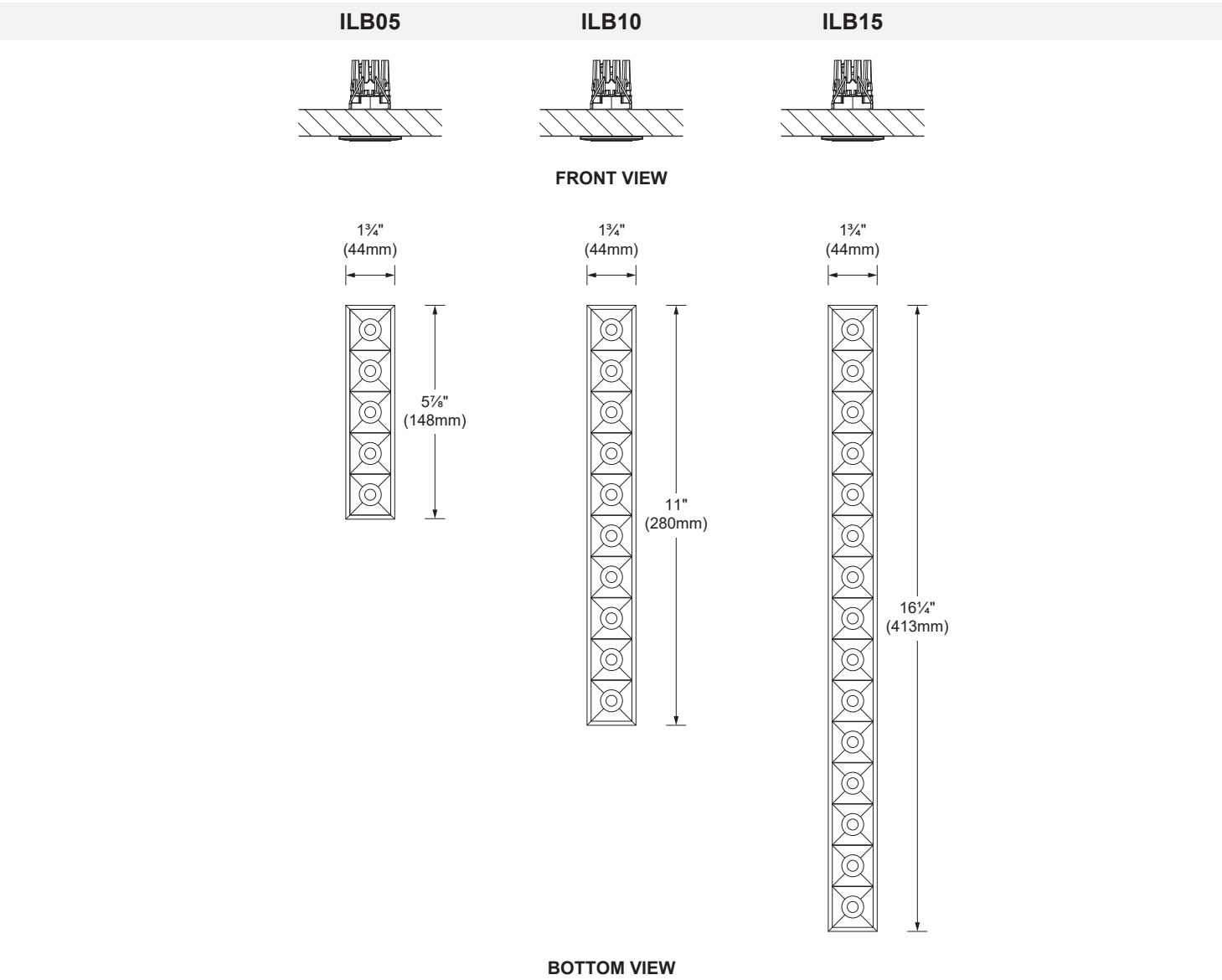
Ceiling thickness:
Trim: 1/8" - 1 1/8" (3mm - 29mm)
Trimless: 3/8" (16mm)



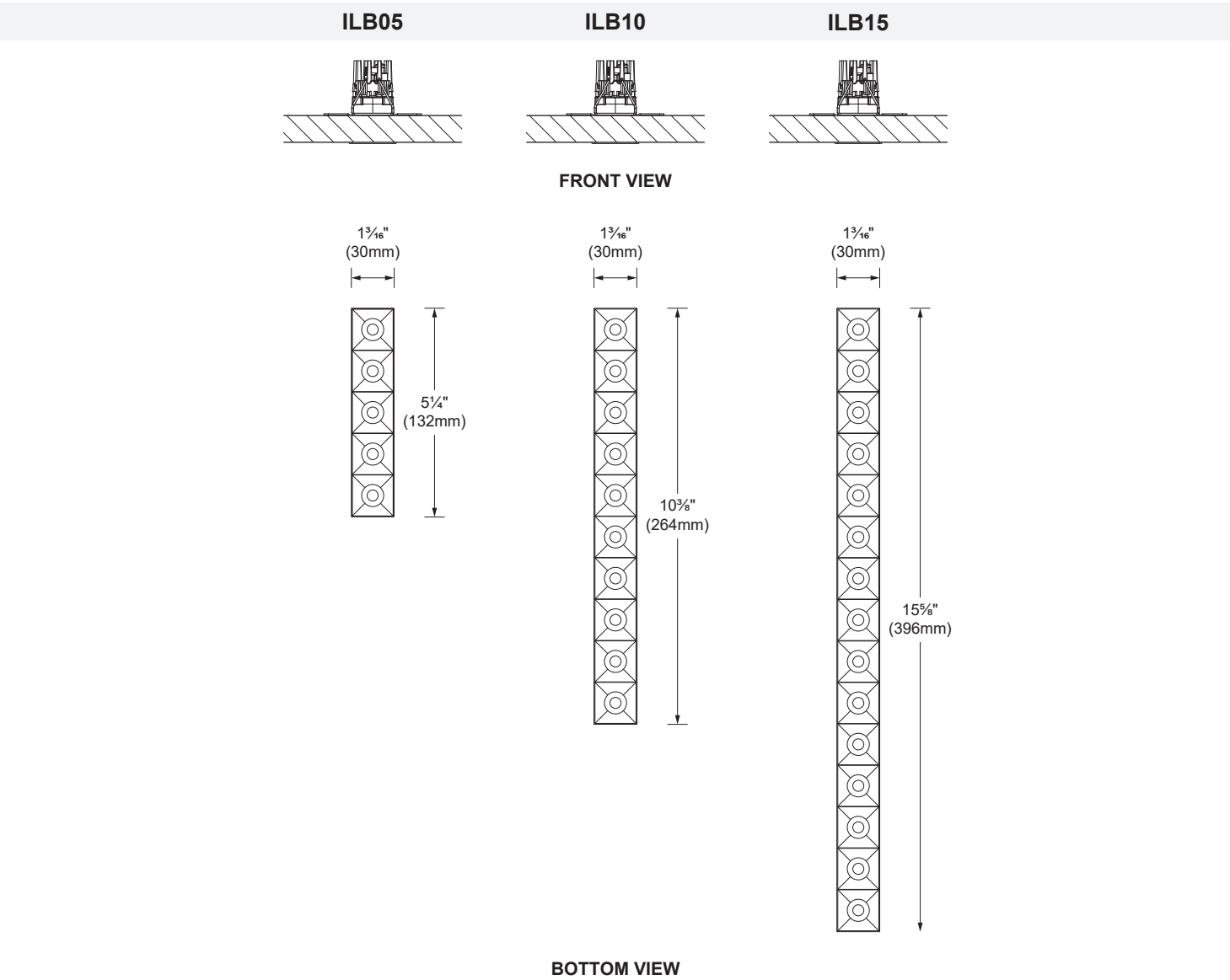
*Provide a minimum of 1 1/8" (46mm) on each side for the hanger bar fixations

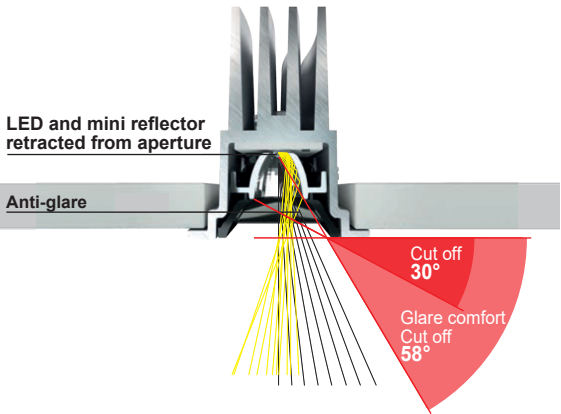
Model	Housing	Cut-out dimensions	Cut-out position (A)	Overall dimensions (BxC)	Hanger bars (D)	Clearance (H)
ILB05	BI-LB05TR-IC-REM	1½" x 5⅝" (37 x 141mm)	5¼" (133mm)	5⅝" x 11" (150 x 280mm)	14¼" to 26" (362 to 660mm)	3⅛" (81mm)
	BI-LB05TL-IC-REM	1⅝" x 5⅝" (35 x 141mm)				
ILB10	BI-LB10TR-IC-REM	1½" x 10⅓⅝" (37 x 274mm)	8⅞" (223mm)	6⅞" x 18⅝" (173 x 460mm)		3½" (89mm)
	BI-LB10TL-IC-REM	1⅝" x 10¼" (35 x 271mm)				
ILB15	BI-LB15TR-IC-REM	1½" x 16" (37 x 406mm)	13⅞" (332mm)	9½" x 25" (242 x 635mm)		
	BI-LB15TL-IC-REM	1⅝" x 15⅓⅝" (35 x 404mm)				

TRIM MODELS DIMENSIONS



TRIMLESS MODELS DIMENSIONS



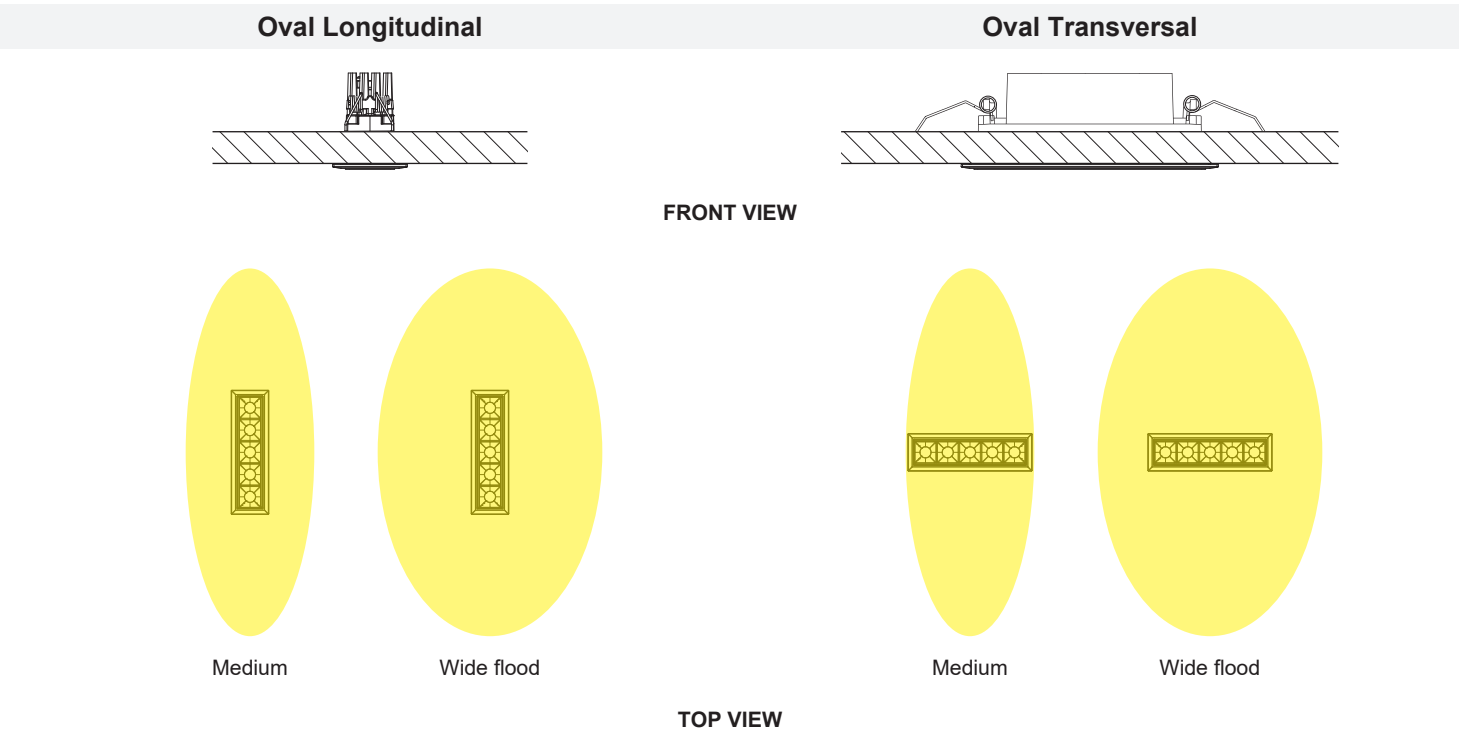


Visual comfort UGR < 10.

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
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

OVAL BEAM DISTRIBUTION



PHOTOMETRIC DATA

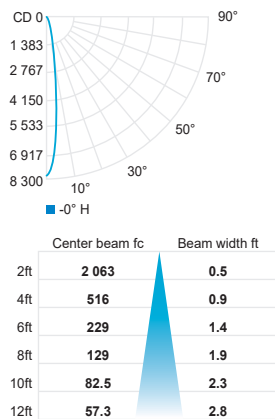
ILB05



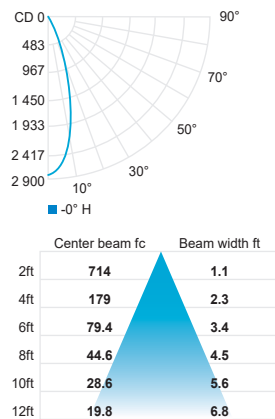
CCT (K)	CRI	LOAD (W)*	OPTIC	LUMENS (lm)	EFFICACY (lm / W)*	MAX CANDELA (cd)	MODELS
3000K	92	9.8W	Spot 13°	861	87	8 250	ILB05-030-SP
			Flood 32°	851	86	2 857	ILB05-030-FL
			Wide flood 47°	851	86	1 628	ILB05-030-WF
			General light pro	788	80	1 122	ILB05-030-GP
			Medium oval longitudinal	767	78	1 281	ILB05-030-LM
			Medium oval transversal	746	76	1 221	ILB05-030-TM
			Wide flood oval longitudinal	756	77	722	ILB05-030-LW
			Wide flood oval transversal	746	76	718	ILB05-030-TW

*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.

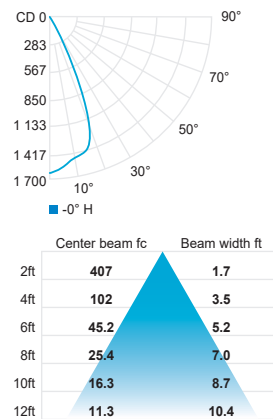
Spot 13° (3000K, 92CRI)



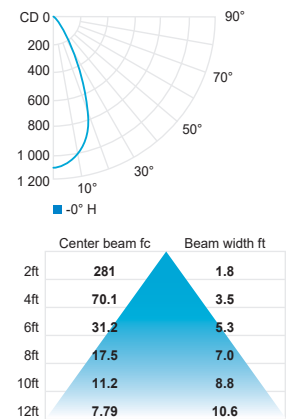
Flood 32° (3000K, 92CRI)



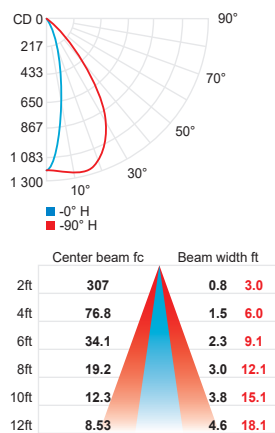
Wide flood 47° (3000K, 92CRI)



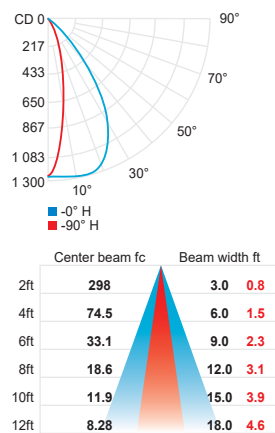
General light pro (3000K, 92CRI)



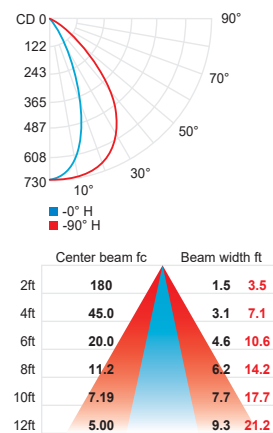
Medium oval long. (3000K, 92CRI)



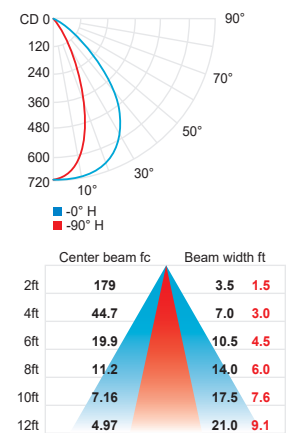
Medium oval tran. (3000K, 92CRI)



Wide flood oval long. (3000K, 92CRI)



Wide flood oval tran. (3000K, 92CRI)



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

PHOTOMETRIC DATA

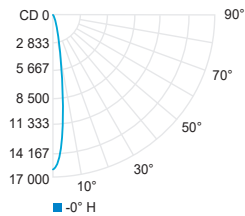
ILB10



CCT (K)	CRI	LOAD (W)*	OPTIC	LUMENS (lm)	EFFICACY (lm / W)*	MAX CANDELA (cd)	MODELS
3000K	92	20W	Spot 13°	1 681	84	16 108	ILB10-030-SP
			Flood 32°	1 661	83	5 578	ILB10-030-FL
			Wide flood 47°	1 661	83	3 179	ILB10-030-WF
			General light pro	1 538	76	2 191	ILB10-030-GP
			Wide flood oval longitudinal	1 476	73	1 410	ILB10-030-LW
			Wide flood oval transversal	1 456	72	1 402	ILB10-030-TW

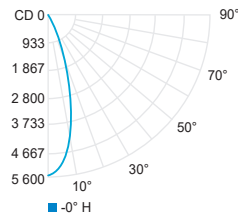
*For products that uses a remote led driver, total system wattage will varies according to the efficacy of the remote led driver selected. For this reason, the load and efficacy values given in the table above refers to the led source only and does not include the led driver consumption.

Spot 13° (3000K, 92CRI)



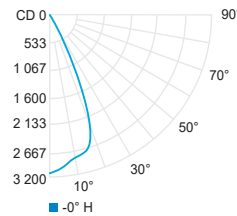
Center beam fc	Beam width ft
2ft 4 027	0.5
4ft 1 007	0.9
6ft 447	1.4
8ft 252	1.9
10ft 161	2.3
12ft 112	2.8

Flood 32° (3000K, 92CRI)



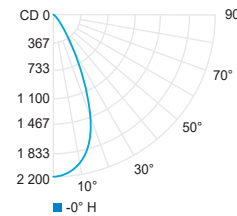
Center beam fc	Beam width ft
2ft 1 395	2.3
4ft 349	4.1
6ft 155	5.4
8ft 87.2	6.8
10ft 55.8	8.2
12ft 38.7	9.6

Wide flood 47° (3000K, 92CRI)



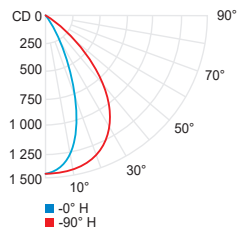
Center beam fc	Beam width ft
2ft 714	1.8
4ft 179	3.5
6ft 73.9	5.3
8ft 44.6	7.0
10ft 28.6	8.8
12ft 19.8	10.6

General light pro (3000K, 92CRI)



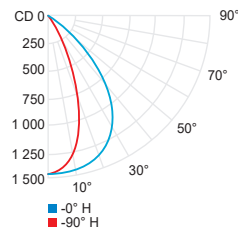
Center beam fc	Beam width ft
2ft 548	1.8
4ft 137	3.5
6ft 60.9	5.3
8ft 34.2	7.0
10ft 21.9	8.8
12ft 15.2	10.6

Wide flood oval long. (3000K, 92CRI)



Center beam fc	Beam width ft
2ft 351	1.6 3.5
4ft 87.8	3.1 7.1
6ft 39.0	4.7 10.6
8ft 21.9	6.2 14.2
10ft 14.0	7.8 17.7
12ft 9.75	9.3 21.2

Wide flood oval tran. (3000K, 92CRI)



Center beam fc	Beam width ft
2ft 349	3.5 1.5
4ft 87.3	7.0 3.0
6ft 38.8	10.5 4.5
8ft 21.8	14.0 6.0
10ft 14.0	17.5 7.6
12ft 9.70	21.0 9.1

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

PHOTOMETRIC DATA

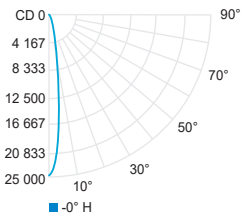
ILB15



CCT (K)	CRI	LOAD (W)*	OPTIC	LUMENS (lm)	EFFICACY (lm / W)*	MAX CANDELA (cd)	MODELS
3000K	92	29W	Spot 13°	2 542	87	24 358	ILB15-030-SP
			Flood 32°	2 511	86	8 435	ILB15-030-FL
			Wide flood 47°	2 511	86	4 807	ILB15-030-WF
			General light pro	2 325	80	3 314	ILB15-030-GP

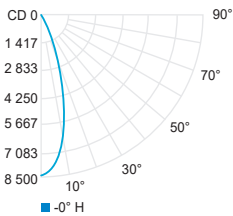
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Spot 13° (3000K, 92CRI)



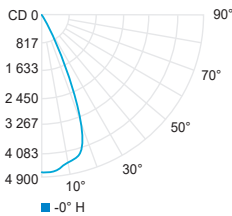
	Center beam fc	Beam width ft
2ft	6 090	0.5
4ft	1 522	0.9
6ft	677	1.4
8ft	381	1.9
10ft	244	2.3
12ft	169	2.8

Flood 32° (3000K, 92CRI)



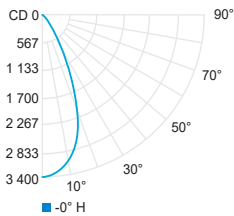
	Center beam fc	Beam width ft
2ft	2 109	1.1
4ft	527	2.3
6ft	234	3.4
8ft	132	4.5
10ft	84.4	5.6
12ft	58.6	6.8

Wide flood 47° (3000K, 92CRI)



	Center beam fc	Beam width ft
2ft	1 202	1.7
4ft	300	3.5
6ft	134	5.2
8ft	75.1	7.0
10ft	48.1	8.7
12ft	33.4	10.4

General light pro (3000K, 92CRI)



	Center beam fc	Beam width ft
2ft	829	1.8
4ft	207	3.5
6ft	92.1	5.3
8ft	51.8	7.0
10ft	33.1	8.8
12ft	23.0	10.6

CCT options	2700K	3000K	3500K	4000K
CRI options	92CRI	92CRI	92CRI	92CRI
Multiplier	0.95	1	1.03	1.08