

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:

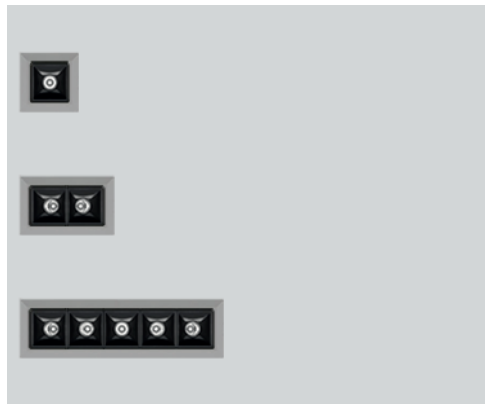
Power input: 2W to 9.8W (source wattage)
Lumens: 170lm to 861lm (for 3000K, 92CRI)
Luminaire efficacy: up to 87lm/W

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 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 3.
Finish:	Black, white (RAL9010) and grey (RAL9006) (page 2).
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.



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

OPTIC

☐ **SP** - Spot 13°⁽²⁾
☐ **FL** - Flood 32°

☐ **WF** - Wide flood 47°⁽²⁾
☐ **GP** - General light pro⁽²⁾
☐ **LM** - Medium oval longitudinal⁽²⁾
☐ **TM** - Medium oval transversal⁽²⁾
☐ **LW** - Wide flood oval longitudinal⁽²⁾
☐ **TW** - Wide flood oval transversal⁽²⁾

VOLTAGE

☒ **REM** - Remote

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

FINISH (trim finish / baffle finish*)

☒ **Black baffle**
☐ **01** - White/Black

☐ **10** - Gray/Black

☐ **02** - Black/Black

☐ **02** - Black

☒ **White baffle**
☐ **31** - White/White

☐ **31** - White

⁽¹⁾ 92CRI typical - 90CRI minimum.

⁽²⁾ Available for the five (**05**) model.

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

REMOTE LED DRIVER OPTIONS (TO BE ORDERED SEPARATELY)

							ILB01 2W*	ILB02 3.8W*	ILB05 9.8W*
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)			
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)			
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)			
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 ⁽¹⁾ 11/channel	1-20 ⁽¹⁾ 5/channel	1-8 ⁽¹⁾ 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).

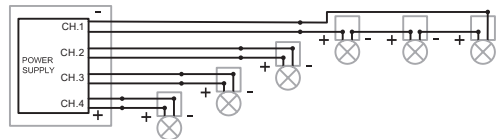
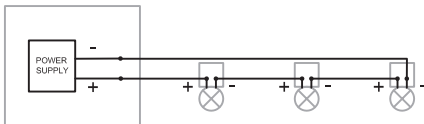
** Calculated for 16AWG cable. Contact customer service for longer remote distance.

WIRING DIAGRAMS

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

⁽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

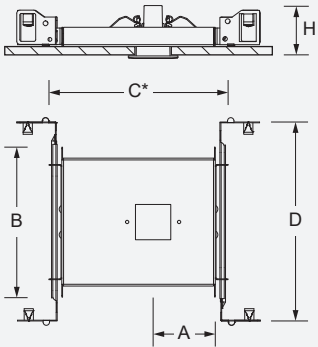
New construction with plaster frame (NC)

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)

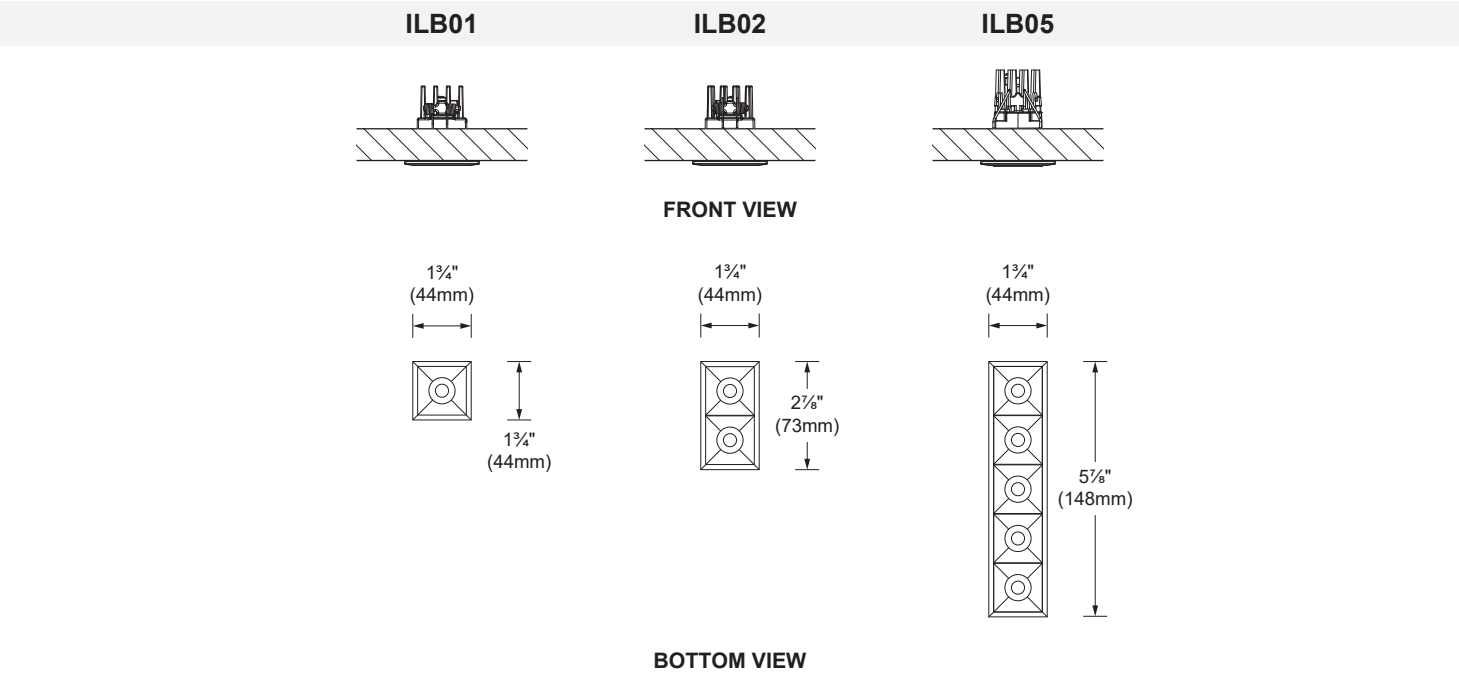
Trimless: 5/8" (16mm)



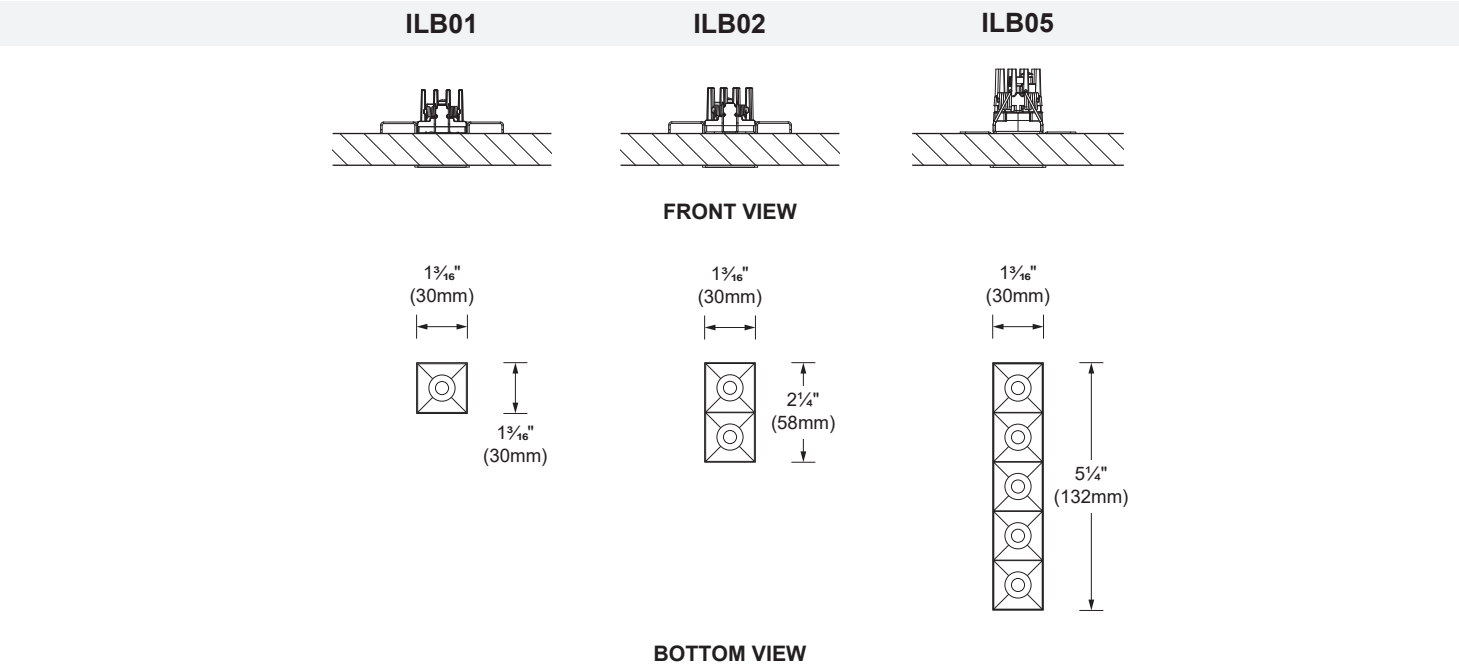
*Provide a minimum of 1 7/8" (46mm) on each side for the hanger bar fixations

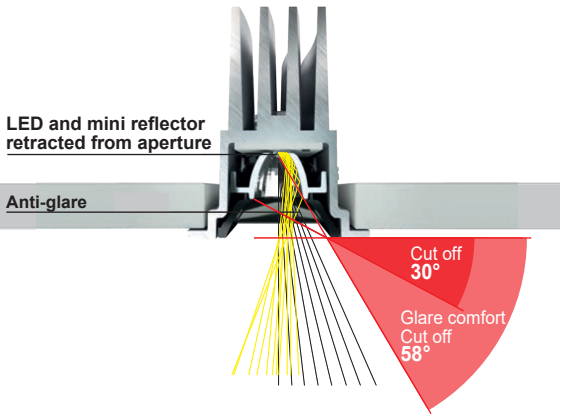
Model	Plaster frame	Cut-out dimensions	Cut-out position (A)	Overall dimensions (BxC)	Hanger bars (D)	Clearance (H)
ILB01	BN-LB01TR-NC	1⅜" x 1⅝" (35 x 35mm)	6⅞" (174mm)	5⅞" x 7" (149 x 178mm)	9" to 15¼" (229 to 387mm)	2½" (64mm)
	BN-LB01TL-NC					
ILB02	BN-LB02TR-NC	1⅜" x 2½" (35 x 64mm)	6⅝" (160mm)			
	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)				

TRIM MODELS DIMENSIONS



TRIMLESS MODELS DIMENSIONS



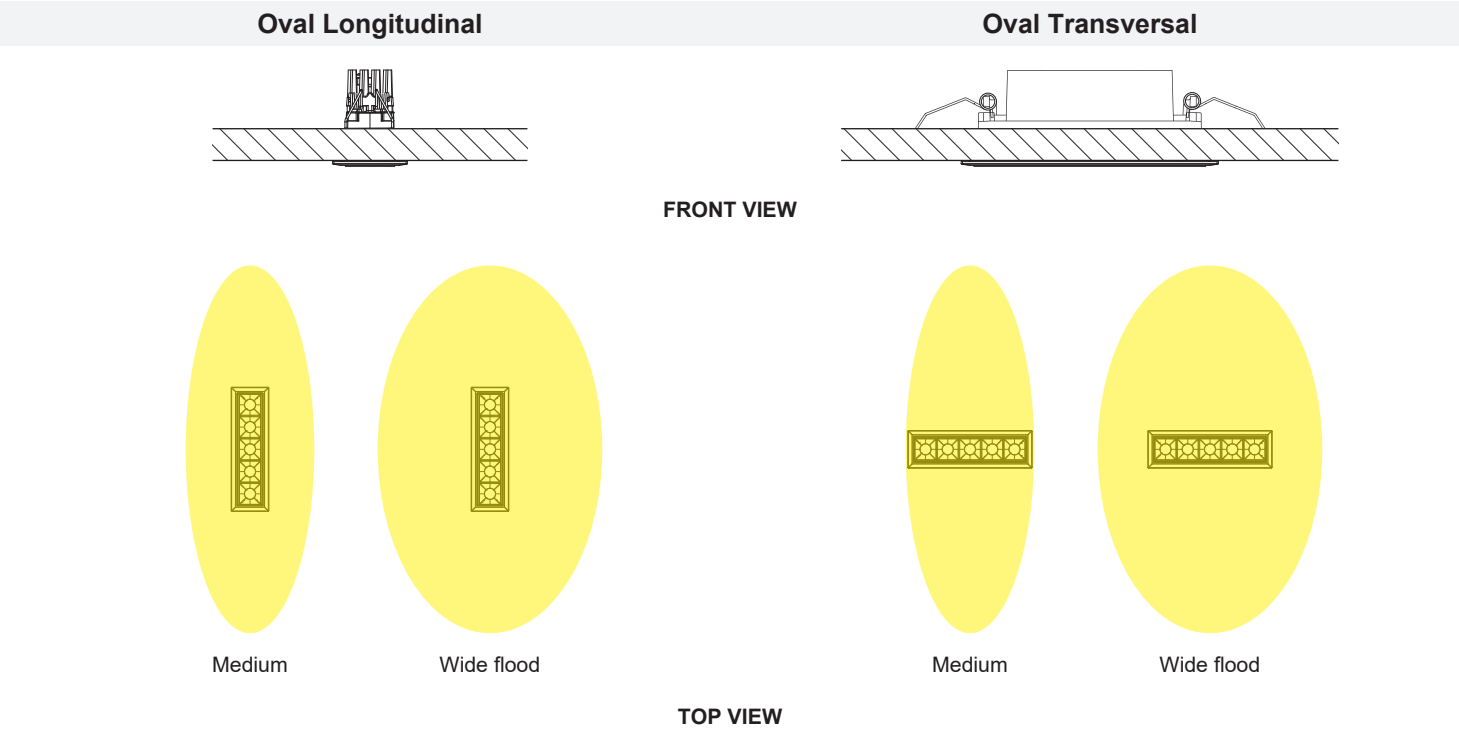


Visual comfort UGR < 10.

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

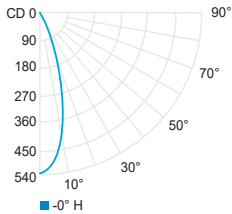
ILB01



CCT (K)	CRI	LOAD (W)*	OPTIC	LUMENS (lm)	EFFICACY (lm / W)*	MAX CANDELA (cd)	MODEL
3000K	92	2W	Flood 32°	170	85	538	ILB01-030-FL

*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.

Flood 32° (3000K, 92CRI)



	Center beam fc	Beam width ft
2ft	135	1.2
4ft	33.6	2.3
6ft	14.9	3.5
8ft	8.41	4.6
10ft	5.38	5.8
12ft	3.74	6.9

CCT options	2700K	3000K	3500K	4000K
CRI options	92CRI	92CRI	92CRI	92CRI
Multiplier	1	1	1.10	1.15

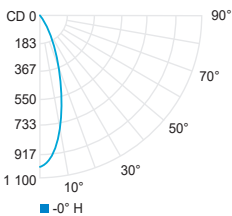
ILB02



CCT (K)	CRI	LOAD (W)*	OPTIC	LUMENS (lm)	EFFICACY (lm / W)*	MAX CANDELA (cd)	MODEL
3000K	92	3.9W	Flood 32°	340	87	1 076	ILB02-030-FL

*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.

Flood 32° (3000K, 92CRI)



	Center beam fc	Beam width ft
2ft	269	1.2
4ft	67.3	2.3
6ft	29.9	3.5
8ft	16.8	4.6
10ft	10.8	5.8
12ft	7.47	6.9

CCT options	2700K	3000K	3500K	4000K
CRI options	92CRI	92CRI	92CRI	92CRI
Multiplier	1	1	1.10	1.15

PHOTOMETRIC DATA

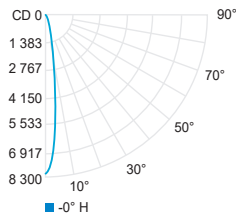
ILB05



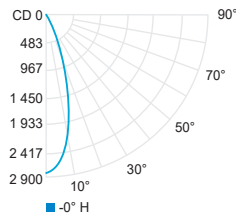
CCT (K)	CRI	LOAD (W)*	OPTIC	LUMENS (lm)	EFFICACY (lm / W)*	MAX CANDELA (cd)	MODELS
3000K	92	9.8W	Spot 13°	861	87	8 250	ILB05-030-SP
			Flood 32°	851	86	2 857	ILB05-030-FL
			Wide flood 47°	851	86	1 628	ILB05-030-WF
			General light pro	788	80	1 122	ILB05-030-GP
			Medium oval longitudinal	767	78	1 281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

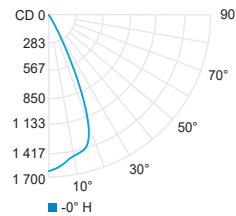
Spot 13° (3000K, 92CRI)



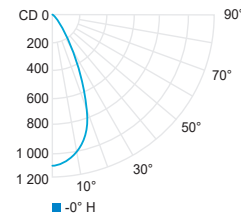
Flood 32° (3000K, 92CRI)



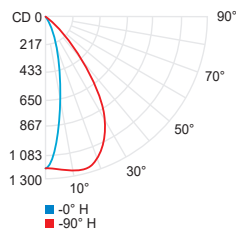
Wide flood 47° (3000K, 92CRI)



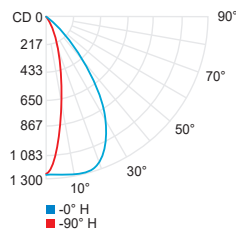
General light pro (3000K, 92CRI)



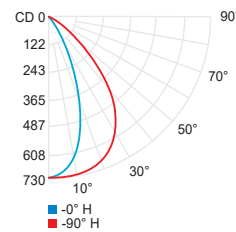
Medium oval long. (3000K, 92CRI)



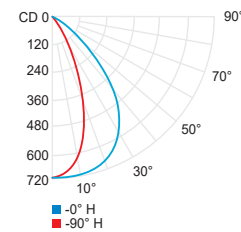
Medium oval tran. (3000K, 92CRI)



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



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



Center beam fc	Beam width ft
2ft 307	0.8
4ft 76.8	1.5
6ft 34.1	2.3
8ft 19.2	3.0
10ft 12.3	3.8
12ft 8.53	4.6

Center beam fc	Beam width ft
2ft 298	3.0
4ft 74.5	6.0
6ft 33.1	9.0
8ft 18.6	12.0
10ft 11.9	15.0
12ft 8.28	18.0

Center beam fc	Beam width ft
2ft 180	1.5
4ft 45.0	3.1
6ft 20.0	4.6
8ft 11.2	6.2
10ft 7.19	7.7
12ft 5.00	9.3

Center beam fc	Beam width ft
2ft 179	3.5
4ft 44.7	7.0
6ft 19.9	10.5
8ft 11.2	14.0
10ft 7.16	17.5
12ft 4.97	21.0

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