

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 2575 lumens and excellent chromatic performance .

**NOW ASSEMBLED IN NORTH AMERICA.**

**Luminaire characteristic:**

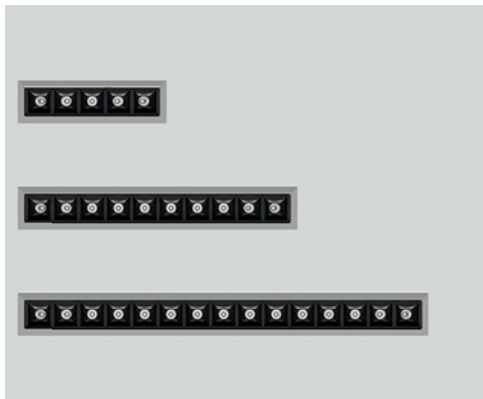
**Power input:** 13W to 37W (system wattage)  
**Lumens:** 785lm to 2575lm (for 3000K, 92CRI)  
**Luminaire efficacy:** up to 70lm/W

<b>Source:</b>	White LED module (LM-80) 2700K: 92CRI (90CRI min), 3000K: 92CRI (90CRI min), 3500K: 92CRI (90CRI min), 4000K: 92CRI (90CRI min).
<b>Lumen maintenance:</b>	90% of initial lumens at 50 000 hours (L90) (LM-79).
<b>Optics:</b>	Low luminance: Spot, flood, wide flood and general light pro optic with Opti Beam technology.
<b>Material:</b>	Body and heat sink: Die-cast aluminum Reflector and baffle: Thermoplastic Housing: Galvanized steel
<b>Mounting:</b>	New construction housing suitable for insulated ceiling.
<b>Electrical:</b>	High efficiency LED driver, rated at 50 000 hours. See remote LED driver options on page 8.
<b>Finish:</b>	Black, white (RAL9010) and grey (RAL9006) (page 7).
<b>Weight:</b>	ILB05: 0.66lbs (0.30kg) ILB10: 1.32lbs (0.60kg) ILB15: 1.90lbs (0.86kg)
<b>Warranty:</b>	5 year limited warranty.
<b>Ratings:</b>	IP20, IP23 (from under the ceiling)
<b>Certification:</b>	cULus listed for damp location. Interior use only.

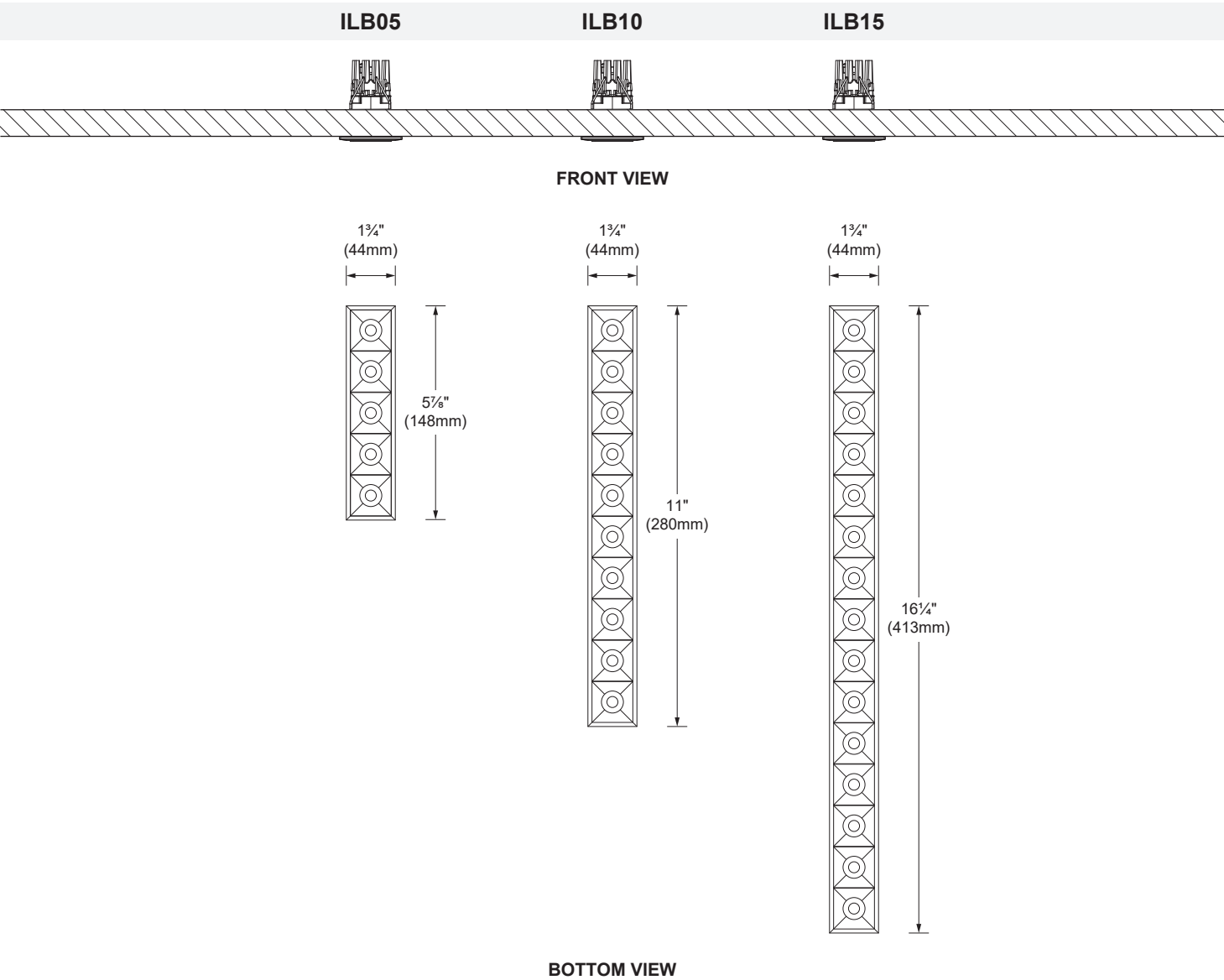


Energy star certified product (except ILB01/ILB02).  
To confirm which versions are certified, please consult the product list: [www.energystar.gov/productfinder](http://www.energystar.gov/productfinder)

**Assembled in North America.**

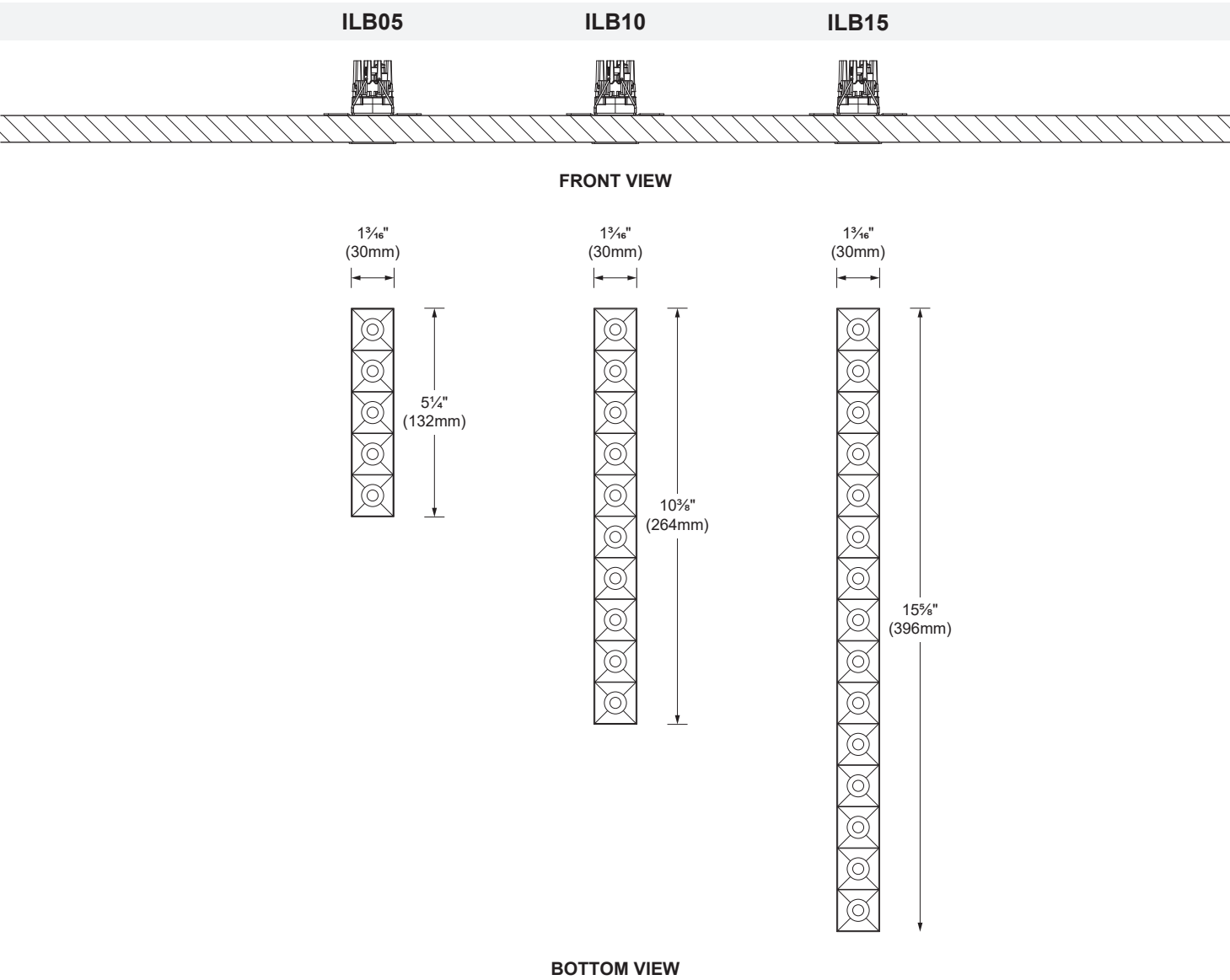


TRIM MODELS DIMENSIONS

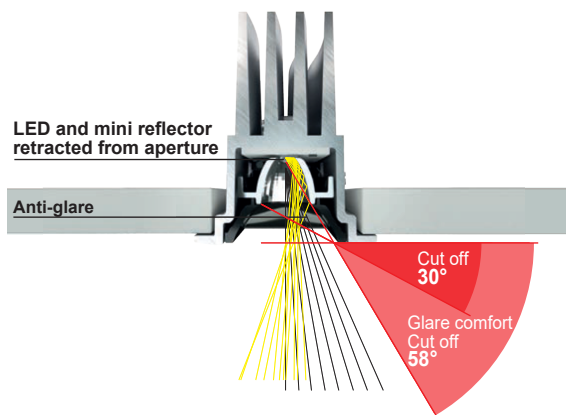


\* See page 6 for installation option details

**TRIMLESS MODELS DIMENSIONS**



\* See page 6 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
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

## PHOTOMETRIC DATA

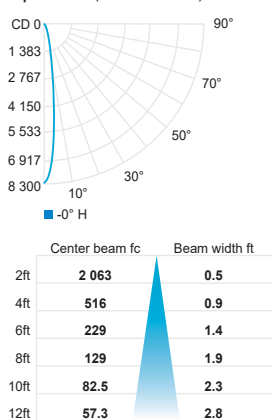
### ILB05



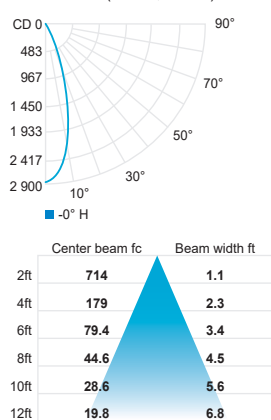
CCT (K)	CRI	LOAD (W)	OPTIC	LUMENS (lm)	EFFICACY (lm / W)	MAX CANDELA (cd)	MODELS
3000K	92	13W	Spot 13°	855	68	8 250	ILB05-030-SP
			Flood 32°	845	67	2 855	ILB05-030-FL
			Wide flood 47°	850	67	1 625	ILB05-030-WF
			General light pro	785	62	1 120	ILB05-030-GP

Use multiplier table for other CCT and CRI output data. Efficacy based on IESNA LM-79 test reports. Visit [iguzzini.com/us](http://iguzzini.com/us) for complete photometric data.

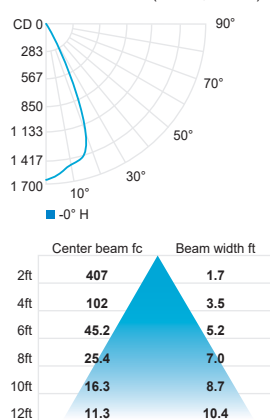
### Spot 13° (3000K, 92CRI)



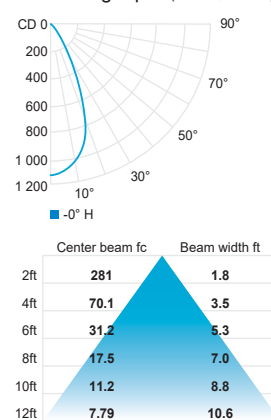
### Flood 32° (3000K, 92CRI)



### Wide flood 47° (3000K, 92CRI)



### General light pro (3000K, 92CRI)



CCT options	2700K	3000K	3500K	4000K
CRI options	92CRI	92CRI	92CRI	92CRI
Multiplier	0.95	1	1.05	1.1

**PHOTOMETRIC DATA**

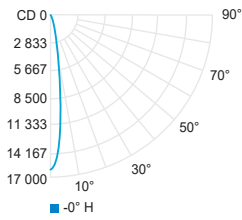
**ILB10**



CCT (K)	CRI	LOAD (W)	OPTIC	LUMENS (lm)	EFFICACY (lm / W)	MAX CANDELA (cd)	MODELS
3000K	92	25W	Spot 13°	1 675	67	16 105	ILB10-030-SP
			Flood 32°	1 655	67	5 575	ILB10-030-FL
			Wide flood 47°	1 655	67	3 175	ILB10-030-WF
			General light pro	1 535	62	2 190	ILB10-030-GP

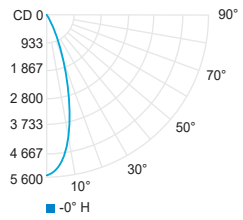
Use multiplier table for other CCT and CRI output data. Efficacy based on IESNA LM-79 test reports. Visit [iguzzini.com/us](http://iguzzini.com/us) for complete photometric data.

Spot 13° (3000K, 92CRI)



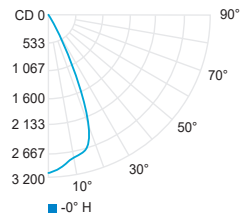
Center beam fc	Beam width ft
2ft 4 027	0.5
4ft 1 007	0.9
6ft 447	1.4
8ft 252	1.9
10ft 161	2.3
12ft 112	2.8

Flood 32° (3000K, 92CRI)



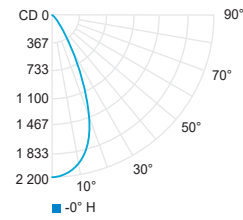
Center beam fc	Beam width ft
2ft 1 395	1.1
4ft 349	2.3
6ft 155	3.4
8ft 87.2	4.5
10ft 55.8	5.6
12ft 38.7	6.8

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

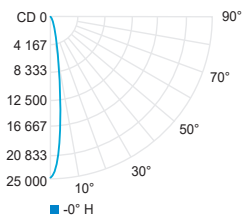
**ILB15**



CCT (K)	CRI	LOAD (W)	OPTIC	LUMENS (lm)	EFFICACY (lm / W)	MAX CANDELA (cd)	MODELS
3000K	92	37W	Spot 13°	2 575	70	24 750	ILB15-030-SP
			Flood 32°	2 545	69	8 570	ILB15-030-FL
			Wide flood 47°	2 550	69	4 885	ILB15-030-WF
			General light pro	2 360	64	3 365	ILB15-030-GP

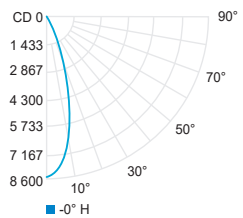
Use multiplier table for other CCT and CRI output data. Efficacy based on IESNA LM-79 test reports. Visit [iguzzini.com/us](http://iguzzini.com/us) for complete photometric data.

Spot 13° (3000K, 92CRI)



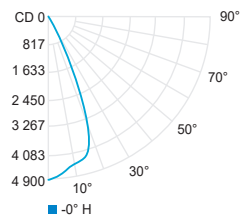
Center beam fc	Beam width ft
2ft 6 188	0.5
4ft 1 547	0.9
6ft 688	1.4
8ft 387	1.9
10ft 248	2.3
12ft 172	2.8

Flood 32° (3000K, 92CRI)



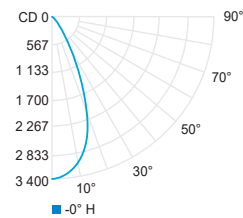
Center beam fc	Beam width ft
2ft 2 143	1.1
4ft 536	2.3
6ft 238	3.4
8ft 134	4.5
10ft 85.7	5.6
12ft 59.5	6.8

Wide flood 47° (3000K, 92CRI)



Center beam fc	Beam width ft
2ft 1 221	1.7
4ft 305	3.5
6ft 136	5.2
8ft 76.3	7.0
10ft 48.9	8.7
12ft 33.9	10.4

General light pro (3000K, 92CRI)



Center beam fc	Beam width ft
2ft 842	1.8
4ft 210	3.5
6ft 93.5	5.3
8ft 52.6	7.0
10ft 33.7	8.8
12ft 23.4	10.6

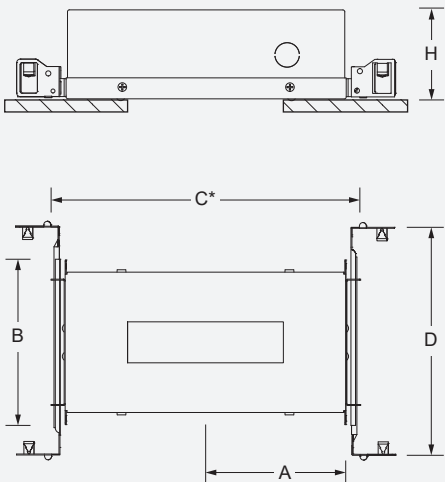
CCT options	2700K	3000K	3500K	4000K
CRI options	92CRI	92CRI	92CRI	92CRI
<b>Multiplier</b>	<b>0.95</b>	<b>1</b>	<b>1.05</b>	<b>1.1</b>

# 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)	3⅜" (81mm)
	BI-LB05TL-IC-REM	1⅜" x 5⅝" (35 x 141mm)				
ILB10	BI-LB10TR-IC-REM	1½" x 10⅜" (37 x 274mm)	8⅞" (223mm)	6⅞" x 18⅝" (173 x 460mm)		3½" (89mm)
	BI-LB10TL-IC-REM	1⅜" x 10¾" (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	1⅜" x 15⅝" (35 x 404mm)				

## 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<sup>(1)</sup> ☐ **030** - 3000K, 92CRI<sup>(1)</sup> ☐ **035** - 3500K, 92CRI<sup>(1)</sup> ☐ **040** - 4000K, 92CRI<sup>(1)</sup>

### OPTIC

☐ **SP** - Spot 13° ☐ **FL** - Flood 32° ☐ **WF** - Wide flood 47° ☐ **GP** - General light pro

### VOLTAGE

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

### FINISH (trim finish / baffle finish\*)

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

<sup>(1)</sup> 92CRI typical - 90CRI minimum.

\*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		
<b>4450-0700-012-120-LTE</b>							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)			
<b>4443-0700-014-UNV-D2</b>							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)			
<b>4443-0700-014-120-D3</b>							1		
14	120V	Indoor	Lutron Hi Lume® 1% 2-wire (120V forward phase only)	Down to $\pm 1\%$	5" x 4" x 3" (127 x 102 x 76mm)	30ft(9m)			
<b>4444-0700-022-120-LTE</b>							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)			
<b>4443-0700-025-UNV-D2</b>							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)			
<b>4443-0700-026-120-D3</b>							2	1	
26	120V	Indoor	Lutron Hi Lume® 1% 2-wire (120V forward phase only)	Down to $\pm 1\%$	5" x 4" x 3" (127 x 102 x 76mm)	30ft(9m)			
<b>4450-0700-030-UNV-SD10</b>							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)			
<b>4443-0700-035-UNV-D2</b>							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)			
<b>4443-0700-037-120-D3</b>							3		1
37	120V	Indoor	Lutron Hi Lume® 1% 2-wire (120V forward phase only)	Down to $\pm 1\%$	5" x 4" x 3" (127 x 102 x 76mm)	30ft(9m)			
<b>4445-0700-040-120-LTE</b>							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)			
<b>4450-0700-038-UNV-ED10</b>							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)			
<b>4448-0700-100-UNV-SD10 (4 channels)</b>							1-8 2/channel	1-4 1/channel	1-3 1/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)

