

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: 13W to 37W (system wattage)
Lumens: 715lm to 2445lm (for 3000K, 90CRI)
Luminaire efficacy: up to 66lm/W

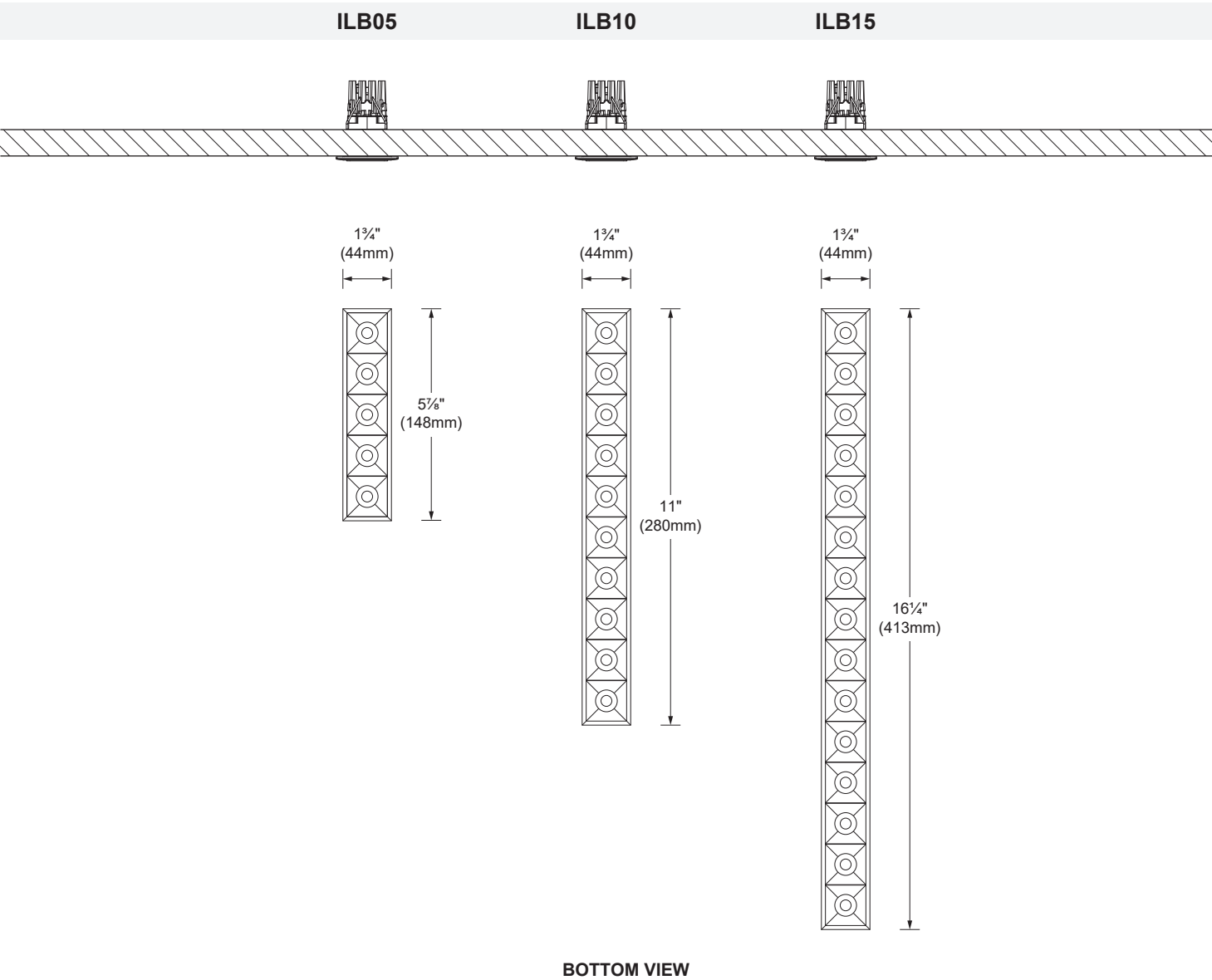
Source:	White LED module (LM-80) 2700K: 95CRI, 3000K: 90CRI, 95CRI, 3500K: 95CRI, 4000K: 95CRI.
Lumen maintenance:	90% of initial lumens at 50 000 hours (L90) (LM-79).
Optics:	Low luminance: Spot, flood, wide flood and general light pro optic with Opti Beam technology.
Material:	Body and heat sink: Die-cast aluminum Reflector and baffle: Thermoplastic 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 8.
Finish:	Black, white (RAL9010) and grey (RAL9006) (page 7).
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

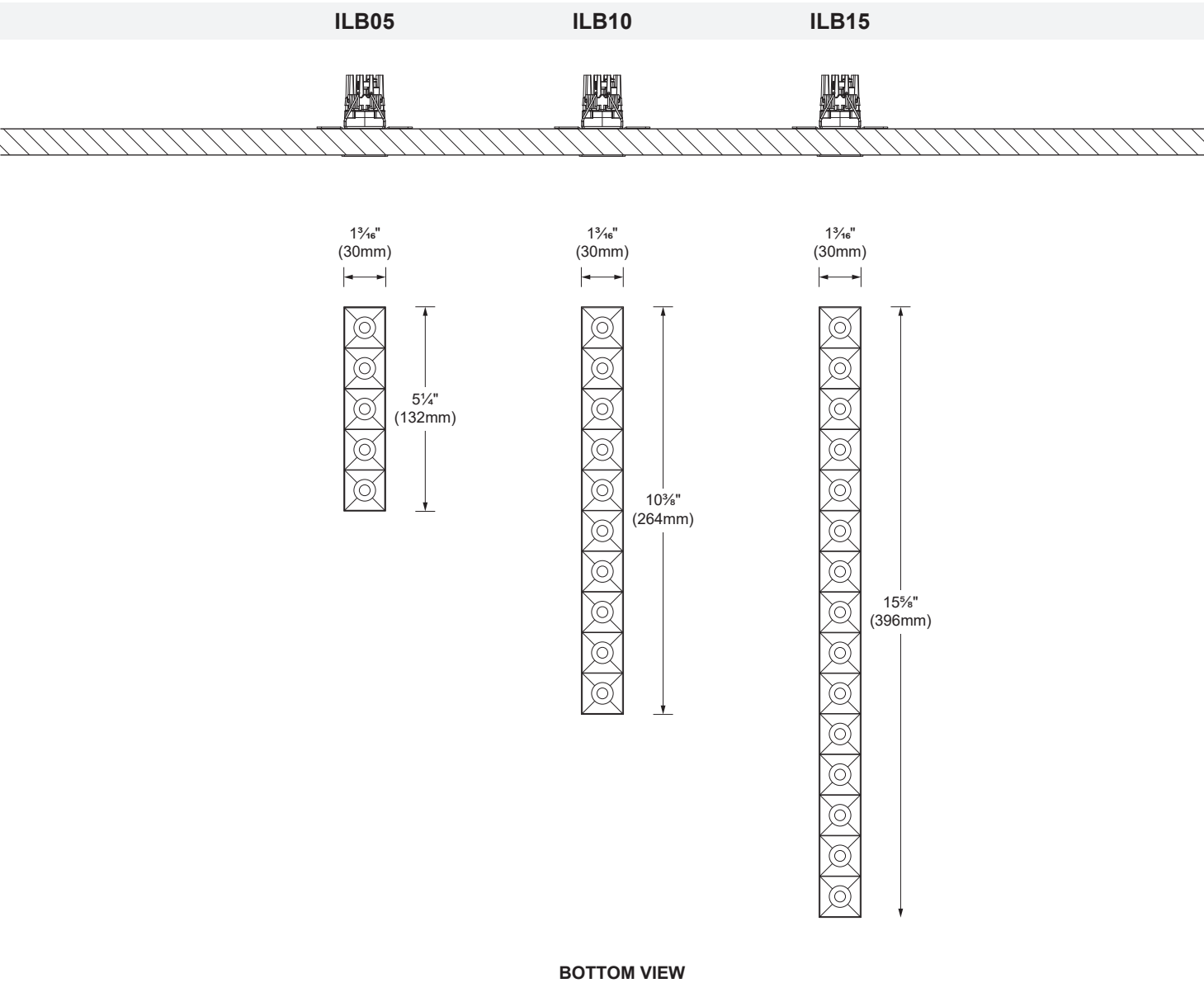
Assembled in North America.

TRIM MODELS DIMENSIONS

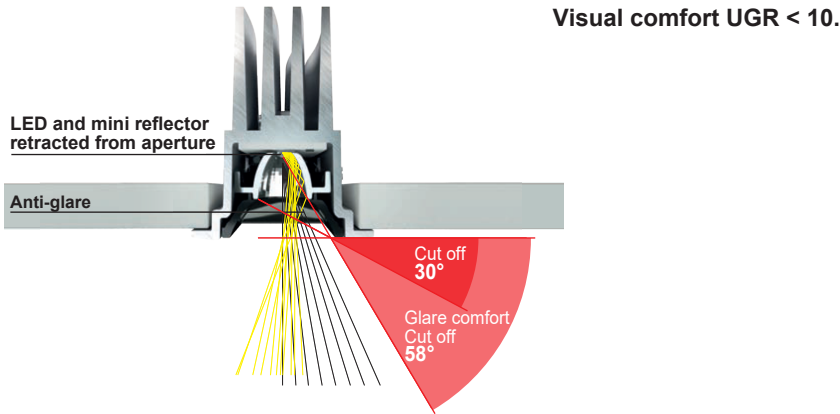


* See page 6 for installation option details

TRIMLESS MODELS DIMENSIONS



* See page 6 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
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

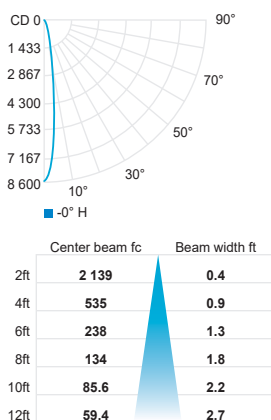
ILB05



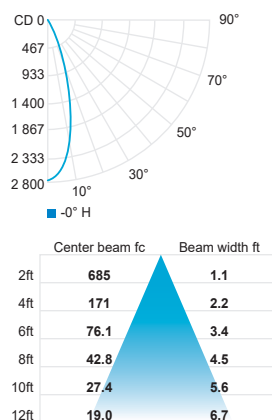
CCT (K)*	CRI	LOAD (W)	OPTIC	LUMENS (lm)	EFFICACY (lm / w)	MAX CANDELA (cd)	MODELS
3000K	90	13W	Spot 12°	785	60	8 555	ILB05-930-SP
			Flood 32°	795	60	2 740	ILB05-930-FL
			Wide flood 48°	825	63	1 465	ILB05-930-WF
			General light pro	715	55	985	ILB05-930-GP

*USE MULTIPLIER TABLE FOR OTHER CCT AND CRI OUTPUT DATA

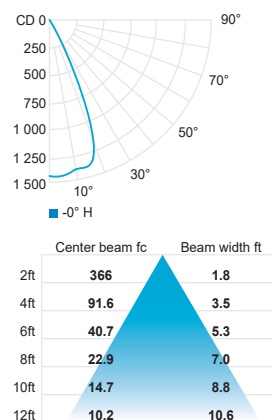
Spot 12° (3000K, 90 CRI)



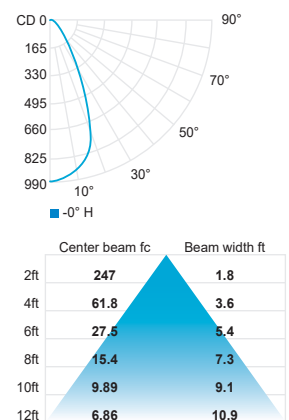
Flood 32° (3000K, 90 CRI)



Wide flood 48° (3000K, 90 CRI)



General light pro (3000K, 90 CRI)



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

PHOTOMETRIC DATA

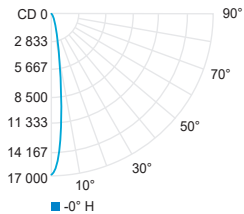
ILB10



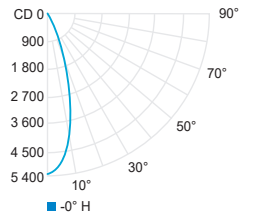
CCT (K)*	CRI	LOAD (W)	OPTIC	LUMENS (lm)	EFFICACY (lm / w)	MAX CANDELA (cd)	MODELS
3000K	90	25W	Spot 12°	1 535	61	16 680	ILB10-930-SP
			Flood 32°	1 555	62	5 345	ILB10-930-FL
			Wide flood 48°	1 615	64	2 860	ILB10-930-WF
			General light pro	1 435	57	1 975	ILB10-930-GP

*USE MULTIPLIER TABLE FOR OTHER CCT AND CRI OUTPUT DATA

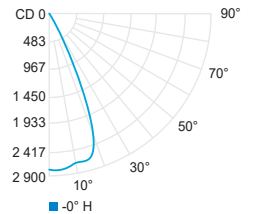
Spot 12° (3000K, 90 CRI)



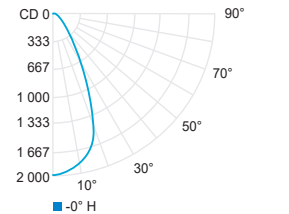
Flood 32° (3000K, 90 CRI)



Wide flood 48° (3000K, 90 CRI)



General light pro (3000K, 90 CRI)



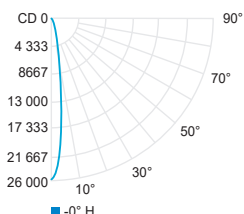
ILB15



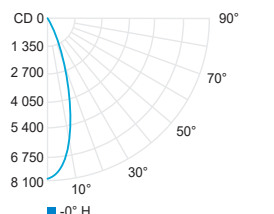
CCT (K)*	CRI	LOAD (W)	OPTIC	LUMENS (lm)	EFFICACY (lm / w)	MAX CANDELA (cd)	MODELS
3000K	90	37W	Spot 12°	2 320	62	25 240	ILB15-930-SP
			Flood 32°	2 350	62	8 085	ILB15-930-FL
			Wide flood 48°	2 445	66	4 330	ILB15-930-WF
			General light pro	2 155	58	2 965	ILB15-930-GP

*USE MULTIPLIER TABLE FOR OTHER CCT AND CRI OUTPUT DATA

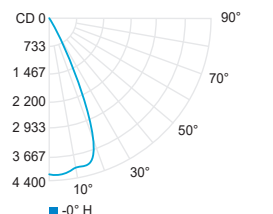
Spot 12° (3000K, 90 CRI)



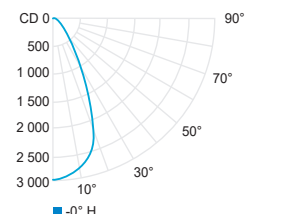
Flood 32° (3000K, 90 CRI)



Wide flood 48° (3000K, 90 CRI)



General light pro (3000K, 90 CRI)



CCT options	2700K	3000K	3500K	4000K	5000K
CRI options	95CRI	95CRI	95CRI	95CRI	90CRI
Multiplier	0.85	0.92	1	1	1

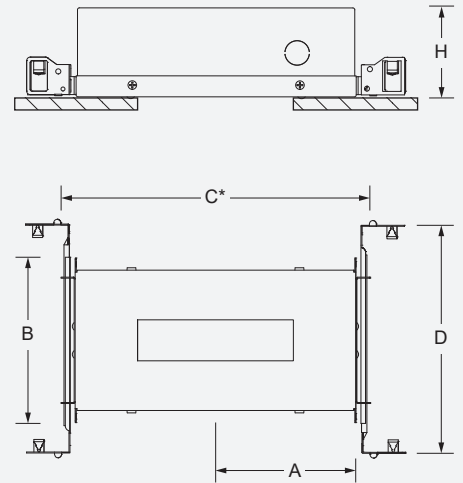
INSTALLATION

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.

Ceiling thickness:

Trim: 3/8" - 1 1/8" (3mm - 29mm)
Trimless: 5/8" (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 10⅓⅝" (37 x 274mm)	8⅞" (223mm)	6⅞" x 18⅛" (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)	13⅝" (332mm)	9½" x 25" (242 x 635mm)		
	BI-LB15TL-IC-REM	1⅜" x 15⅙⅝" (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, 95CRI ☐ **030** - 3000K, 95CRI ☐ **035** - 3500K, 95CRI ☐ **040** - 4000K, 95CRI ☐ **930** - 3000K, 90CRI

OPTIC

☐ **SP** - Spot 12° ☐ **FL** - Flood 32° ☐ **WF** - Wide flood 48° ☐ **GP** - General light pro

VOLTAGE

☒ **REM** - with remote power supply ☐ **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

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

REMOTE LED DRIVER OPTIONS
(TO BE ORDERED SEPARATELY)

							ILB05 10.5W*	ILB10 21W*	ILB15 31.5W*
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 ±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 ±1%	5" x 4" x 3" (127 x 102 x 76mm)	30ft(9m)			
4443-0700-014-120-D3							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							1-2	1	
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							2	1	
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							2	1	
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							1-2	1	
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							3		1
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							3		1
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							3		1
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							1-3	1	1
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)							1-8 2/channel	1-4 1/channel	1-3 1/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)

