

Sensor Ready Linear High Bay

Lumen & Kelvin Selectable

FEATURES

- Emergency lighting with adjustable Emergency Lighting Control (ELC), powered from a Signtex low-voltage central battery system.
- Available with factory-installed UL Listed Emergency Lighting Control (ELC), for connection to a Signtex central battery, DC emergency power system.
- Premium powder-coat, steel, white housing.
- Polycarbonate lens.
- Field selectable 4000k (neutral white) and 5000k (cool white) color temperatures*.
- Tri-lumen selectable delivers 12,000 to 60,000 nominal lumens (see lumen tables on page 3).
- Screw in sensor ready. Sensor and remote control sold separately.
- Remote control required to change factory sensor settings (see default settings on page 2).
- Long-life LEDs provide 134,000 hours of operation with at least 70% of initial lumen output (L70), and 40,000 hours with at least 90% of initial lumen output (L90)**.
- LED color maintenance < 0.003 chromaticity shift ($\Delta u'v'$) over the initial 6,000 hours of operation.
- Color rendering index > 80%

ELECTRICAL

- Operating temperature (ambient):
-40°C to 55°C (-40°F to 131°F) for HBL-18L.
-40°C to 50°C (-40°F to 122°F) for HBL-24/36/60L.
- Universal 120-277V AC voltage (50-60Hz) is standard.
- 347-480V achieved with step-down transformer(Optional).
- 0-10VDC dimming drivers are standard.
- Emergency driver option available.
- Input transient surge protection = 6kV.
- PF > 0.9 ; THD < 20%.

CODES COMPLIANCE

- cULus listed for damp locations.
- DLC premium listed for medium distribution.*
*DLC standard listed for narrow and wide distributions.
- Complies with FCC part 15, class A.

WARRANTY

- 5 year total customer satisfaction warranty.
For details see Signtex product catalog technical data section.

* Default kelvin temperature 4000k and highest lumen output.
** L70 & L90 hours are IES TM-21-11 calculated hours.

PROJECT:

TYPE:

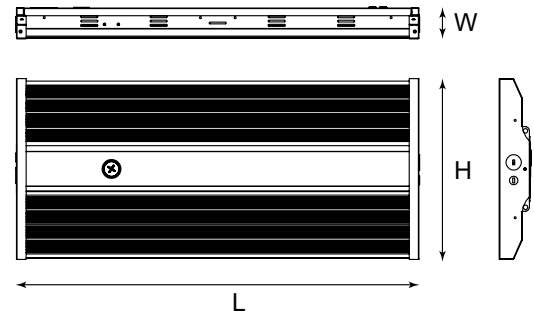
CATALOG #:

emLITE
Series HBL

REV #: HBL.07.26.02



DIMENSIONS



Model #	L (in)	W (in)	H (in)	Weight (lbs)
HBL-18L-SK	16.5	10.25	1.8	4.6
HBL-24L-SK	23	10.25	1.8	7
HBL-36L-SK	31	10.25	1.8	9.5
HBL-60L-SK	44	10.25	1.8	12

STANDARD



OPTIONS



FIXTURE ORDERING INFORMATION EXAMPLE: HBL-18L-SLSK-ELC20P7

HBL	18L	SL SK		-	-	ELC20P7
SERIES	SIZE	SELECTABLE ¹		INPUT VOLTAGE	LENS DISTRIBUTION	OPTIONS
		NOMINAL LUMENS	COLOR TEMP			
HBL	18L	SL 18,000/15,000/12,000	SK 4000K/5000K	(Blank) 120-277V UNC* 347-480V	(Blank) Medium ND Narrow WD Wide	ELCXX ² Emergency Lighting Control
	24L	SL 24,000/18,000/15,000				**XX*= Varies with fixture size and power.
	36L	SL 36,000/30,000/24,000				See Options table for complete part number
	60L	SL 60,000/48,000/36,000				EM10 10W Emergency driver EM13 13W Emergency driver EM25 25W Emergency driver

¹ Nominal values, See Electrical data for specific values.

² See ELC Power details table, Page2,

EMERGENCY LIGHTING CONTROLS (ELC)

For use with Signtex Lighting DC Central Battery System

REV #: HBL.07.26.02

MODEL	ELC10P7		ELC40P7	
	EPR ¹ WATTS (MIN.)	EM LUMENS ²	EPR WATTS (MAX.) ³	EM LUMENS
FHB-18L	10	1400	40	5,600
FHB-24L	10	1500	40	6,000
FHB-36L	10	1400	40	5,600
FHB-24L	10	1500	40	6,000

NOTE:

Emergency lumens are calculated based on efficacy in the MID-LUMEN range (4000K) from the Electrical Data Table. The value is adjustable through the EPR range shown above. For maximum efficiency, EPR should be set at the minimum level for compliance with NFPA Life Safety Code, based on photometric data for the fixture when installed.

To calculate lumen output within the EPR range given:

Lumens = EPR (watts) x Luminaire Efficacy (Lm/watt)

¹ Emergency power rating (Factory Adjustable).

² Nominal output at 4000K and Efficacy in Mid-Lumen Range.

³ Maximum Emergency Power Rating (EPR).

ACCESSORIES (ORDER SEPARATELY)

Sensor

HD07VR-PH-1	=	Passive infrared sensor - maximum mounting height = 39 FT
HD07VR-MH-B-1	=	Microwave step-dimming sensor - maximum mounting height = 49 FT
HD09VR-PH5-1*	=	Passive infrared sensor - maximum mounting height = 39FT.
HD09VR-MH5-1*	=	Microwave step-dimming sensor - maximum mounting height = 49FT.
HD05R	=	Remote control for HD07VR-PH-1, HD07VR-MH-B-1, HD09VR-PH5-1 & HD09VR-MH5-1(required to change factory settings)

*HD09VR series has 5-dial setting capability.

Factory settings for Sensor : detection area =100%, hold time = 5 sec, stand-by period = 0 sec, stand-by dimming level = 10%, daylight threshold = disabled

Lens

HBL-LENS-18L-ND	=	Narrow distribution lens for HBL-18L
HBL-LENS-24L-ND	=	Narrow distribution lens for HBL-24L
HBL-LENS-36L-ND	=	Narrow distribution lens for HBL-36L
HBL-LENS-60L-ND	=	Narrow distribution lens for HBL-60L
HBL-LENS-18L-MD	=	Medium distribution lens for HBL-18L (ships with luminaire standard)
HBL-LENS-24L-MD	=	Medium distribution lens for HBL-24L (ships with luminaire standard)
HBL-LENS-36L-MD	=	Medium distribution lens for HBL-36L (ships with luminaire standard)
HBL-LENS-60L-MD	=	Medium distribution lens for HBL-60L (ships with luminaire standard)
HBL-LENS-18L-WD	=	Wide distribution lens for HBL-18L
HBL-LENS-24L-WD	=	Wide distribution lens for HBL-24L
HBL-LENS-36L-WD	=	Wide distribution lens for HBL-36L
HBL-LENS-60L-WD	=	Wide distribution lens for HBL-60L

Wire Guard

HBL-WG-18L	=	Wire guard kit for HBL-18L
HBL-WG-24L	=	Wire guard kit for HBL-24L
HBL-WG-36L	=	Wire guard kit for HBL-36L
HBL-WG-60L	=	Wire guard kit for HBL-60L

Mounting Options

HBL-SMK	=	Surface mount kit for HBL - all models (not compatible with UNC or EM25 options)
HBL-PMK	=	Pendant mount for HBL - all models (not compatible with UNC or EM25 options)
LEDHFB-CMK3	=	Cable mount kit, 3 meters long - all models
LEDHFB-CMK5	=	Cable mount kit, 5 meters long - all models

Remote Mount EM Drivers

BLEM-CP-10C	=	10W Emergency Driver
BLEM-CP-13C	=	13W Emergency Driver

LUMEN TABLES

Series	Measure-ments	Low Lumens		Mid Lumens		High Lumens	
		4000K	5000K	4000K	5000K	4000K	5000K
HBL-18L-SLSK	Lumens	12,007	12,307	14,555	15,071	18,085	18,421
	Watts	76	77	96	98	120	123
	Efficacy	158	159	152	154	150	150
HBL-24L-SLSK	Lumens	15,021	15,557	18,017	18,477	24,047	24,241
	Watts	94	96	115	117	158	158
	Efficacy	159	162	157	158	152	153
HBL-36L-SLSK	Lumens	24,049	24,854	30,037	30,299	35,517	36,076
	Watts	152	155	193	197	237	242
	Efficacy	158	160	156	154	150	149
HBL-60L-SLSK	Lumens	37,049	38,465	48,182	49,009	60,104	61,319
	Watts	236	241	312	317	404	412
	Efficacy	157	160	154	155	149	149

ELECTRICAL DATA

Series	CCT	Input Amps (A)								
		Low Lumens			Mid Lumens			High Lumens		
		120V	240V	277V	120V	240V	277V	120V	240V	277V
HBL-18L-SLSK	4000K	0.63	0.32	0.27	0.80	0.40	0.35	1.0	0.5	0.43
	5000K	0.64	0.32	0.28	0.82	0.41	0.35	1.03	0.51	0.44
HBL-24L-SLSK	4000K	0.78	0.39	0.34	0.96	0.48	0.42	1.32	0.66	0.57
	5000K	0.80	0.40	0.35	0.98	0.49	0.42	1.32	0.66	0.57
HBL-36L-SLSK	4000K	1.27	0.63	0.55	1.61	0.80	0.70	1.98	0.99	0.86
	5000K	1.29	0.65	0.56	1.64	0.82	0.71	2.02	1.01	0.87
HBL-60L-SLSK	4000K	1.97	0.98	0.85	2.60	1.30	1.13	3.37	1.68	1.46
	5000K	2.01	1.00	0.87	2.64	1.32	1.14	3.43	1.72	1.49

PHOTOMETRIC DATA

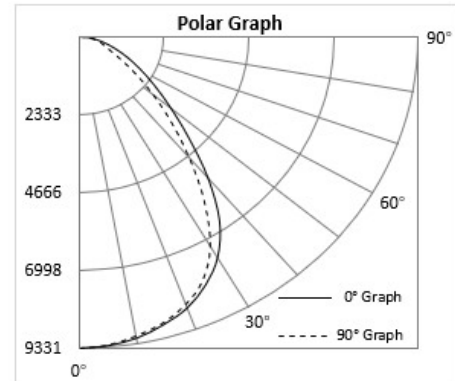
HBL-18L-SLSK

Luminaire Data

Description	Linear High Bay Lumen/Kelvin Selectable
Total Lumens	18,423
Input Wattage	123
Efficacy (lm/W)	150
Spacing Criterion (0-180°)	1.22
Spacing Criterion (90-270°)	1.18

Photometrics calculated at
5000k - high lumens setting

Zonal Lumen Summary		
Zone	Lumens	%Fixt
0-20°	3,402	18.5%
0-30°	7,155	38.8%
0-40°	11,161	60.6%
20-50°	10,840	58.8%
40-70°	6,281	34.1%
0-60°	16,247	88.2%
0-80°	18,156	98.6%
0-90°	18,423	100.0%
90-180°	0	0.0%
0-180°	18,423	100.0%



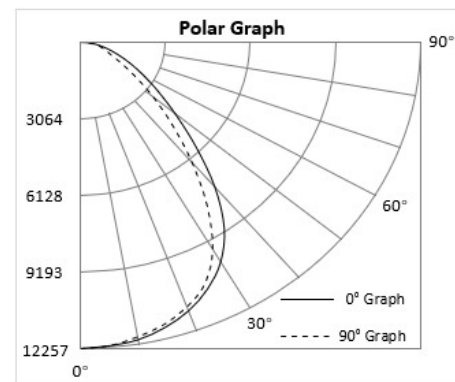
HBL-24L-SLSK

Luminaire Data

Description	Linear High Bay Lumen/Kelvin Selectable
Total Lumens	24,269
Input Wattage	158
Efficacy (lm/W)	153
Spacing Criterion (0-180°)	1.24
Spacing Criterion (90-270°)	1.18

Photometrics calculated at
5000k - high lumens setting

Zonal Lumen Summary		
Zone	Lumens	%Fixt
0-20°	4,468	18.4%
0-30°	9,398	38.7%
0-40°	14,661	60.4%
20-50°	14,249	58.7%
40-70°	8,283	34.1%
0-60°	21,353	88.0%
0-80°	23,902	98.5%
0-90°	24,269	100.0%
90-180°	0	0.0%
0-180°	24,269	100.0%



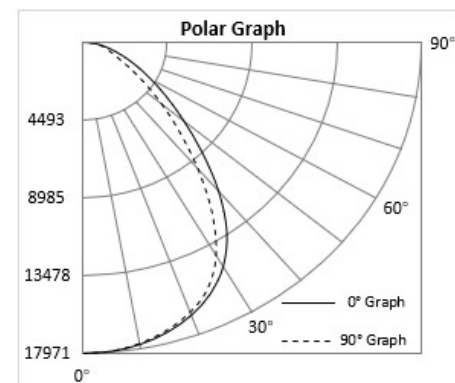
HBL-36L-SLSK

Luminaire Data

Description	Linear High Bay Lumen/Kelvin Selectable
Total Lumens	36,087
Input Wattage	242
Efficacy (lm/W)	149
Spacing Criterion (0-180°)	1.24
Spacing Criterion (90-270°)	1.18

Photometrics calculated at
5000k - high lumens setting

Zonal Lumen Summary		
Zone	Lumens	%Fixt
0-20°	6,560	18.2%
0-30°	13,802	38.2%
0-40°	21,585	59.8%
20-50°	21,143	58.6%
40-70°	12,526	34.7%
0-60°	31,718	87.9%
0-80°	35,540	98.5%
0-90°	36,087	100.0%
90-180°	0	0.0%
0-180°	36,087	100.0%



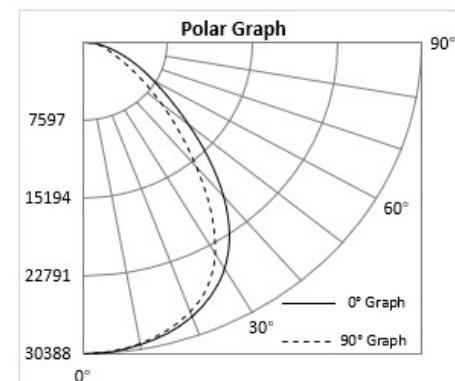
HBL-60L-SLSK

Luminaire Data

Description	Linear High Bay Lumen/Kelvin Selectable
Total Lumens	61,323
Input Wattage	412
Efficacy (lm/W)	149
Spacing Criterion (0-180°)	1.24
Spacing Criterion (90-270°)	1.18

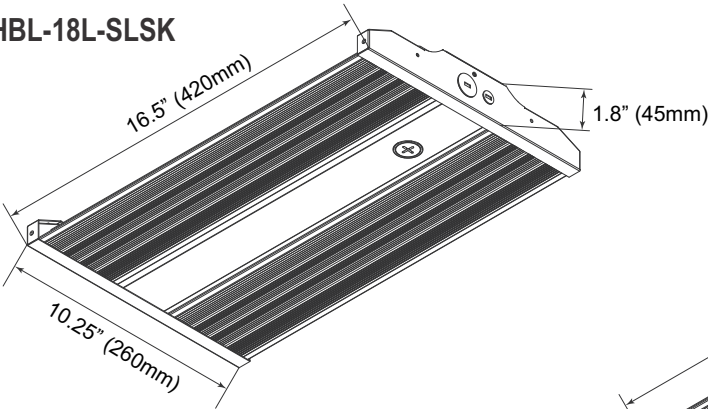
Photometrics calculated at
5000k - high lumens setting

Zonal Lumen Summary		
Zone	Lumens	%Fixt
0-20°	11,100	18.1%
0-30°	23,335	38.1%
0-40°	36,491	59.5%
20-50°	35,901	58.5%
40-70°	21,535	35.1%
0-60°	53,908	87.9%
0-80°	60,446	98.6%
0-90°	61,323	100.0%
90-180°	0	0.0%
0-180°	61,323	100.0%

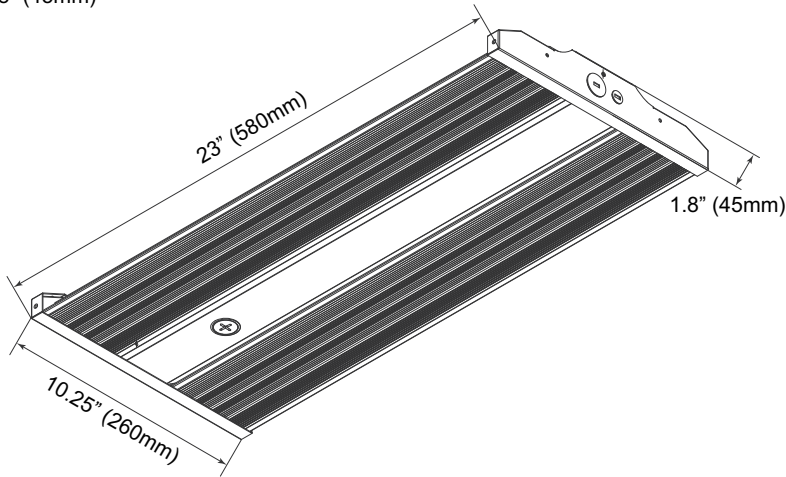


DIMENSIONAL DRAWINGS

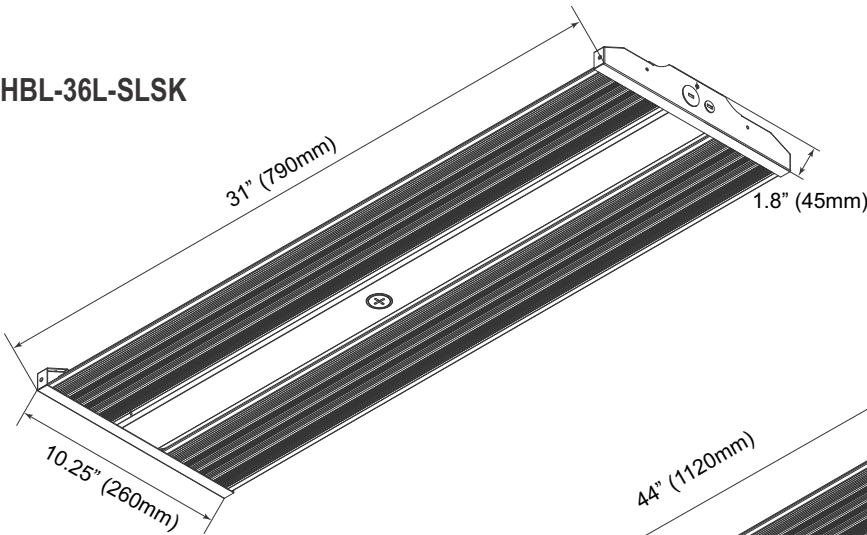
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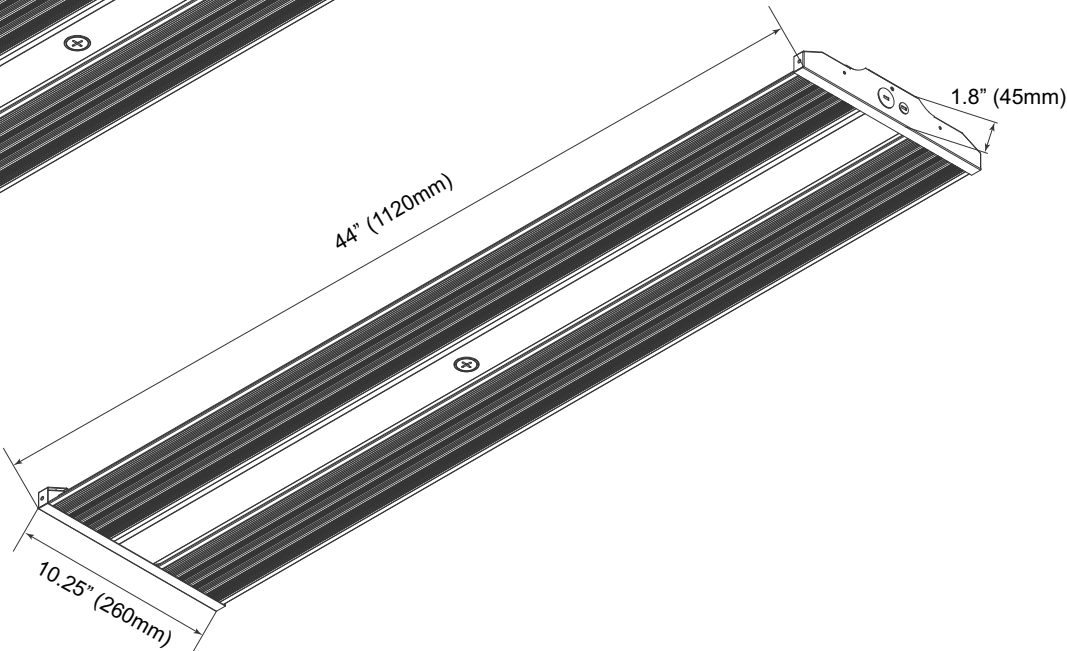
HBL-24L-SLSK



HBL-36L-SLSK



HBL-60L-SLSK



COMPATIBLE EMERGENCY DRIVERS-INSTALLED

Emergency Driver Part Number	EM10		EM13		EM25	
Model	Watts	EM Lumens	Watts	EM Lumens	Watts	EM Lumens
HBL-18L-SLSK	10	1500	13	1950	25	3750
HBL-24L-SLSK	10	1500	13	1950	25	3750
HBL-36L-SLSK	10	1500	13	1950	25	3750
HBL-60L-SLSK	10	1500	13	1950	25	3750

COMPATIBLE DIMMERS AND CONTROLS

Manufacturer	Model Number	Dimmer Range	Load Switching Capacity
Best Lighting	DWS-010V-T	10%-100%	600W
Best Lighting	DWS-010V-D	10%-100%	600W
Leviton	IP710-LFZ	10%-100%	1200W
Lutron	DVSTV	10%-100%	450W

PLUGS AND CORDS

When ordering a plug, use the following suffix choices.

Example: HBL-18L-SLSK-EM25-10C4 **Note:** cord & plugs do not affect the ability to install sensors.

Part number suffix	Description	For use with
6C3	6' cord - 3 conductor (black/white/green)	Standard & UNC
6C4	6' cord - 4 conductor (black/white/green/red)	EM driver
6C5	6' cord - 5 conductor (black/white/green/purple/pink)	Dimming (standard & UNC)
6C6	6' cord - 6 conductor (black/white/green/red/purple/pink)	Dimming & EM driver
10C3	10' cord - 3 conductor (black/white/green)	Standard & UNC
10C4	10' cord - 4 conductor (black/white/green/red)	EM driver
10C5	10' cord - 5 conductor (black/white/green/purple/pink)	Dimming (standard & UNC)
10C6	10' cord - 6 conductor (black/white/green/red/purple/pink)	Dimming & EM driver
15C3	15' cord - 3 conductor (black/white/green)	Standard & UNC
15C4	15' cord - 4 conductor (black/white/green/red)	EM driver
15C5	15' cord - 5 conductor (black/white/green/purple/pink)	Dimming (standard & UNC)
15C6	15' cord - 6 conductor (black/white/green/red/purple/pink)	Dimming & EM driver
6W3	6' whip - 3 conductor (black/white/green)	Standard & UNC
6W4	6' whip - 4 conductor (black/white/green/red)	EM driver
6W5	6' whip - 5 conductor (black/white/green/purple/pink)	Dimming (standard & UNC)
6W6	6' whip - 6 conductor (black/white/green/red/purple/pink)	Dimming & EM driver
6P515	6' cord - 3 conductor (black/white/green) - NEMA 5-15 plug (120V/15A)	Standard luminaire
6P615	6' cord - 3 conductor (black/white/green) - NEMA 6-15 plug (240V/15A)	Standard luminaire
6P715	6' cord - 3 conductor (black/white/green) - NEMA 7-15 plug (277V/15A)	Standard luminaire

PLUGS AND CORDS

Part number suffix	Description	For use with
6P520	6' cord - 3 conductor (black/white/green) - NEMA 5-20 plug (120V/20A)	Standard luminaire
6P620	6' cord - 3 conductor (black/white/green) - NEMA 6-20 plug (277V/20A)	Standard luminaire
6P515L	6' cord - 3 conductor (black/white/green) - NEMA L5-15 plug (120V/15A locking)	Standard luminaire
6P615L	6' cord - 3 conductor (black/white/green) - NEMA L6-15 plug (240V/15A locking)	Standard luminaire
6P715L	6' cord - 3 conductor (black/white/green) - NEMA L7-15 plug (277V/15A locking)	Standard luminaire
6P520L	6' cord - 3 conductor (black/white/green) - NEMA L5-20 plug (120V/20A locking)	Standard luminaire
6P620L	6' cord - 3 conductor (black/white/green) - NEMA L6-20 plug (240V/20A locking)	Standard luminaire
6P720L	6' cord - 3 conductor (black/white/green) - NEMA L7-20 plug (277V/20A locking)	Standard luminaire
6P2420L	6' cord - 3 conductor (black/white/green) - NEMA L24-20 plug (347V/20A locking)	UNC luminaire
6P820L	6' cord - 3 conductor (black/white/green) - NEMA L8-20 plug (480V/20A locking)	UNC luminaire
10P515	10' cord - 3 conductor (black/white/green) - NEMA 5-15 plug (120V/15A)	Standard luminaire
10P615	10' cord - 3 conductor (black/white/green) - NEMA 6-15 plug (240V/15A)	Standard luminaire
10P715	10' cord - 3 conductor (black/white/green) - NEMA 7-15 plug (277V/15A)	Standard luminaire
10P520	10' cord - 3 conductor (black/white/green) - NEMA 5-20 plug (120V/20A)	Standard luminaire
10P620	10' cord - 3 conductor (black/white/green) - NEMA 6-20 plug (277V/20A)	Standard luminaire
10P515L	10' cord - 3 conductor (black/white/green) - NEMA L5-15 plug (120V/15A locking)	Standard luminaire
10P615L	10' cord - 3 conductor (black/white/green) - NEMA L6-15 plug (240V/15A locking)	Standard luminaire
10P715L	10' cord - 3 conductor (black/white/green) - NEMA L7-15 plug (277V/15A locking)	Standard luminaire
10P520L	10' cord - 3 conductor (black/white/green) - NEMA L5-20 plug (120V/20A locking)	Standard luminaire
10P620L	10' cord - 3 conductor (black/white/green) - NEMA L6-20 plug (240V/20A locking)	Standard luminaire
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10P820L	10' cord - 3 conductor (black/white/green) - NEMA L8-20 plug (480V/20A locking)	UNC luminaire
15P515	15' cord - 3 conductor (black/white/green) - NEMA 5-15 plug (120V/15A)	Standard luminaire
15P615	15' cord - 3 conductor (black/white/green) - NEMA 6-15 plug (240V/15A)	Standard luminaire
15P715	15' cord - 3 conductor (black/white/green) - NEMA 7-15 plug (277V/15A)	Standard luminaire
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15P715L	15' cord - 3 conductor (black/white/green) - NEMA L7-15 plug (277V/15A locking)	Standard luminaire
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15P820L	15' cord - 3 conductor (black/white/green) - NEMA L8-20 plug (480V/20A locking)	UNC luminaire