



Model #	
Type	
Project	
Date	

# LHB4-SERIES LINEAR HIGH BAY

The LHB4-Series Linear High Bay provides high efficacy and energy savings to projects that require optimized lighting in high ceiling applications. These linear high bays are great as energy efficient replacements for traditional fluorescent fixtures and HID highbays.



## HIGHLIGHTS

- Up to 136 lumens/W
- Available in 120-277V, 120-347V, and 120-277/347V
- Flexible mounting options: v-hooks with chain (included) or aircraft cable, pendant, surface mount, threaded rod and ganging (optional accessories)
- Comes pre-corded with a 10-foot white whip
- Power Selectable (320 only)
- Emergency Battery Backup Kit available for continuous operation of lights in emergency mode in the event of power failure
- Includes receptacle for simple plug-and-play microwave or PIR sensors
- 0-10V dimming

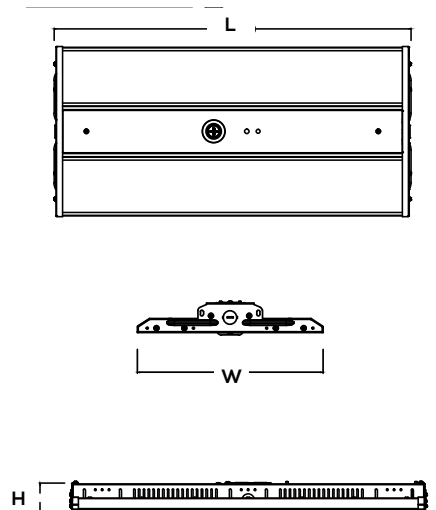


## APPLICATIONS

Designed for indoor applications in commercial, corridor, garage, gymnasium, industrial, manufacturing, office, retail and warehouse spaces.

## DIMENSIONS

VOLTAGE (V)	POWER (W)	L (inches/mm)	W (inches/mm)	H (inches/mm)	WEIGHT (kg/lbs)
120-277	90	24-13/16" (630 mm)	11-13/16" (300 mm)	1-7/8" (48 mm)	3.5 kg / 7.7 lbs
	130				3.8 kg / 8.4 lbs
	165				4.0 kg / 8.8 lbs
	220	24-13/16" (630 mm)	14 3/16" (360 mm)	1-7/8" (48 mm)	4.5 kg / 9.9 lbs
	320	35-3/8" (900 mm)	15-1/8" (383 mm)	2-3/16" (56 mm)	6.5 kg / 14.3 lbs
120-347	90	24-13/16" (630 mm)	11-13/16" (300 mm)	1-7/8" (48 mm)	3.5 kg / 7.7 lbs
	130				3.8 kg / 8.4 lbs
120-277 /347V	165	24-13/16" (630 mm)	14 3/16" (360 mm)	1-7/8" (48 mm)	4.0 kg / 8.8 lbs
	220				4.5 kg / 9.9 lbs
120-347	320	35-3/8" (900 mm)	15-1/8" (383 mm)	2-3/16" (56 mm)	6.5 kg / 14.3 lbs



## ORDERING GUIDE

SERIES	POWER (W)	CCT	VOLTAGE/DIMMING
<b>LHB4</b>	<b>90:</b> 90W <b>130:</b> 130W <b>165:</b> 165W <b>220:</b> 220W <b>320:</b> 320/290/260W	<b>4:</b> 4000K <b>5:</b> 5000K	<b>1:</b> 120-277V, 0-10V dimming, internal connection <b>3:</b> 120-347V, 0-10V dimming, internal connection

## FACTORY-INSTALLED OPTIONS

CUSTOM CORD LENGTH*	CORD END	SENSOR	BACKUP BATTERY
<b>Blank:</b> Default 10' 18/3 white cord  <b>W1xx:</b> 300V 18/3 SJTW white cord XX to specify length, up to 99'  <b>W2xx:</b> 600V 18/3 STW white cord XX to specify length, up to 99'  Custom length required (in feet)  *If used, custom cord length replaces cord length value	<b>Blank:</b> Default, no cord end  <b>N01:</b> 125V 15A straight plug <b>N02:</b> 250V 15A straight plug <b>N04:</b> 125V 15A locking plug <b>N05:</b> 250V 15A locking plug <b>N06:</b> 277V 15A locking plug <b>N07:</b> 125V 20A straight plug <b>N08:</b> 250V 20A straight plug <b>N09:</b> 277V 20A straight plug <b>N10:</b> 125V 20A locking plug <b>N11:</b> 250V 20A locking plug <b>N12:</b> 277V 20A locking plug <b>N13:</b> 347V 20A locking plug	<b>Blank:</b> Default, no sensor  <b>M1:</b> PIR motion sensor, On/Off, 120-347V <b>M2:</b> Microwave motion sensor, dimming, 12VDC <b>M4:</b> Microwave motion sensor, dimming, 120-277V <b>M5:</b> Microwave motion sensor, dimming, 347-480V <b>M10:</b> PIR motion sensor dimming, 120-347V <b>M12:</b> PIR motion sensor, dimming, 12VDC <b>M40:</b> Leviton®, PIR motion sensor, On/Off, 120-347V <b>M46:</b> Leviton®, PIR motion sensor, high mount lens, dimming, 120-347V <b>M47:</b> Leviton®, PIR motion sensor, low mount lens, dimming, 120-347V <b>M48:</b> Leviton®, PIR motion sensor, high mount aisle mask, dimming, 120-347V <b>M49:</b> Leviton®, PIR motion sensor, low mount aisle mask, dimming, 120-347V	<b>Blank:</b> Default, no battery  <b>EB1:</b> Emergency battery backup (20W, 100-277V only)**  **EB1 can not be installed with cord ends.

### MODEL SELECTION

### FACTORY-INSTALLED OPTIONS

SERIES	POWER (W)	CCT	VOLTAGE	X / CORD LENGTH	CORD END	SENSOR	BACKUP BATTERY
<b>LHB4</b>	<b>90</b>	<b>4</b>	<b>1</b>	<b>W115</b>	<b>N01</b>	<b>M4</b>	<b>EB1</b>

**EXAMPLE : LHB4-904-1-W115-N01-M4-EB1**

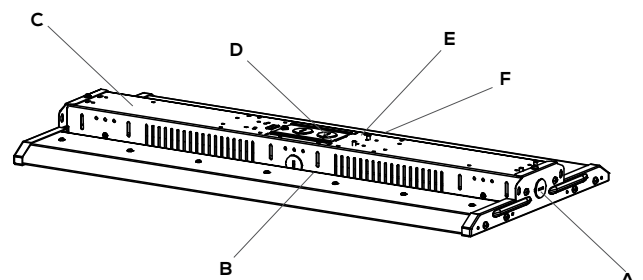
### MOUNTING POSITION SELECTION (INDICATE IF ORDERING FACTORY-INSTALLED OPTIONS)

OPTION	MOUNTING POSITION					
CORD	A	B	C	D	E	F
SENSOR	A	C				
BATTERY	E					

- A & C:** Available motion sensor mounting locations (default center mount for M2 & M12)
- D:** Default cord location unless specified otherwise
- E:** Must be used by EB1 if selected

### Mounting Positions for Factory-Installed Options

If adding custom cords or sensor, please specify the knockout positions for cords and sensor.



## ACCESSORIES SELECTION

ORDER	MODEL #	DESCRIPTION
	LHB4-ACK	Aircraft Cable Kit (47" long)
	LHB4-PMK	Pendant Mount Kit (120-277 and 120-277/347V)
	LHB4-PMK-L	Pendant Mount Kit (120-277/347V, 320W models only)
	LHB4-TRSMK	Threaded Rod/Surface Mount Kit (120-277 and 120-277/347V)
	LHB4-TRSMK-L	Threaded Rod/Surface Mount Kit (120-277/347V, 320W models only)
	LHB4-GK	Ganging Kit (120-277 and 120-277/347V)
	LHB4-GK-L	Ganging Kit (120-277/347V, 320W models only)
	LHB4-WG	Wire Guard (120-277 and 120-277/347V)
	LHB4-WG-L	Wire Guard (120-277/347V, 320W models only)
	RC01	Remote for motion sensors (one remote is required if ordering): MS1-DHR-KO-1 (Factory-installed code M4) MS1-DH-KO-4 (Factory-installed code M5)
	RC02	Remote for motion sensors (one remote is required if ordering): MSF-DMR-12 (Factory-Installed code M2) MSF-DPR-12 (Factory-Installed code M12)
	RC-100	Remote for motion sensor (one remote required if ordering): MS2-DPX3 (Factory-installed code M10)
	FHUPS1-UNV-25L-SD	Fulham Emergency Battery, Field Mount, 25W, 100-277V
	FHSWLPWH	Wall plate for test switch (white)
	FHS-TSTWL-BC	Test switch, wet location (IP67, switch side)
	FHS-EXT-48-TST	Extension for test switch with connectors (48")

## PRODUCT FEATURES

### CONSTRUCTION

- White powdercoated stamped steel
- Five (5) 1/2" NPT knockouts for daisy chaining or controls
- 10-foot white 18/3 SJTW / STW cord
- Polycarbonate diffuser

### INSTALLATION

- Included: Chain hanging kit (2 x 39" chains with carabiner)
- Optional: Pendant Mount Kit, Threaded Rod Kit, Ganging Kit, Aircraft cable Kit

### ELECTRICAL

- "-1" models designed to operate between 120-277V
- "-3" models designed to operate between 120-277/347V or 120-347V
- LED drivers in all models have 4kV inherent surge protection
- Power Factor >0.9
- THD <20%
- 1-10V dimming, dim to 10%

### LISTINGS & RATINGS







- cULus
- DLC Premium
- Damp location
- RoHS compliant
- Listed for use in -40°C to 50°C / -40°F to 122°F

### RATED LIFE & WARRANTY






- LED system: >50,000 hours at L70
- 10 year warranty (visit [premiseled.com/warranty/](http://premiseled.com/warranty/))

## ORDERING INFORMATION



INPUT VOLTAGE	POWER (W)	CCT (K)	MODEL NUMBER	DELIVERED LUMENS (lm)	EFFICACY (lm/W)	DLC PREMIUM
120-277V	90W	4K	LHB4-904-1	12,917 lm	136 lm/W	S-9JGD01
		5K	LHB4-905-1	12,965 lm	136 lm/W	S-1TUBXG
	130W	4K	LHB4-1304-1	18,714 lm	136 lm/W	S-WHF4R7
		5K	LHB4-1305-1	18,636 lm	136 lm/W	S-PANJ8K
	165W	4K	LHB4-1654-1	22,878 lm	136 lm/W	S-8KOHGC
		5K	LHB4-1655-1	22,981 lm	136 lm/W	S-9MI5CQ
	220W	4K	LHB4-2204-1	30,816 lm	136 lm/W	S-RQ63SY
		5K	LHB4-2205-1	30,847 lm	136 lm/W	S-PN0V4E
	320W / 290W / 260W	4K	LHB4-320G4-1	45,015 lm	136 lm/W	S-FY1DAG
		5K	LHB4-320G5-1	45,246 lm	136 lm/W	S-01HQWN
120-347V	90W	4K	LHB4-904-3	12,422 lm	136 lm/W	S-CP7AYO
		5K	LHB4-905-3	12,528 lm	136 lm/W	S-Z1YDR9
	130W	4K	LHB4-1304-3	18,112 lm	136 lm/W	S-0GVUKS
		5K	LHB4-1305-3	18,170 lm	136 lm/W	S-6EZ5WD
120-277/347V	165W	4K	LHB4-1654-3	22,560 lm	136 lm/W	S-VF13SB
		5K	LHB4-1655-3	22,506 lm	136 lm/W	S-G7HPKO
	220W	4K	LHB4-2204-3	28,850 lm	136 lm/W	S-WK30TH
		5K	LHB4-2205-3	28,800 lm	136 lm/W	S-02WKN3
120-347V	320W / 290W / 260W	4K	LHB4-320G4-3	45,463 lm	136 lm/W	S-GJLZ41
		5K	LHB4-320G5-3	45,378 lm	136 lm/W	S-L649RH

PACKING INFORMATION		
MODEL	CASE QUANTITY	PALLET QUANTITY
90W	CASE OF 2	86
130W	CASE OF 2	86
165W	CASE OF 2	86
220W	CASE OF 2	70
320W	CASE OF 1	27
OPTIONAL ACCESSORIES		
MOUNTING & PROTECTION ACCESSORIES		
IMAGE	DESCRIPTION	MODEL NUMBER
	Aircraft Cable Kit for LHB4 Linear High Bays Each set includes 2 y-style aircraft cables with carabiners	LHB4-ACK (47" long, all models)
	Pendant Mount Kit for LHB4 Linear High Bays Each set includes 1 pendant mount bracket and hardware	LHB4-PMK (for 90-165W models) LHB4-PMK-L (320W models only)
	Threaded Rod Mount/Surface Mount Kit for LHB4 Linear High Bays Each set includes 2 brackets and hardware	LHB4-TRSMK (for 90-165W models) LHB4-TRSMK-L (320W models only)
	Ganging Kit for LHB4 Linear High Bays Each set includes 1 ganging kit	LHB4-GK (for 90-165W models) LHB4-GK-L (for 320W models only)
	Wireguards for LHB4 Linear High Bays Each set includes 2 wireguards	LHB4-WG (for 90-165W models) LHB-WG-L (for 320W models only)
BATTERY ACCESSORY		
IMAGE	DESCRIPTION	MODEL NUMBER
	<p><b>Battery with Accessories</b>  <b>Fulham 25W Sinusoidal Emergency Micro Inverter</b>            Field mounted emergency battery backup with test switch indicator included. Controls up to 150W of load with 0-10V dimming. Minimum 90 minutes discharge. Charge time 12 hours. Under voltage, overload and short circuit protection. Remote mount up to 50m (164ft) away with 18AWG. Remote mount test switch up to 20m (65ft). No remote control available. Dimming control. 120-277V Input. IP20 rated. Operation range of 0°C to 50°C (32°F to 122°F)            Battery and accessories all ordered separately.</p> <p>Wall plate for test switch (white)            Test switch, wet location (IP67, switch side)            Extension for test switch with connectors (48")</p>	<p>FHUPS1-UNV-25L-SD</p> <p>FHSWLPWH            FHS-TSTWL-BC            FHS-EXT-48-TST</p>



**SENSOR ACCESSORIES**

IMAGE	DESCRIPTION	MODEL NUMBER	FACTORY-INSTALLED CODE
	<p><b>PIR Motion Sensor</b>                      Sensor parameters set by dip switch, no remote available. On/Off control. Two detection lenses included for 8ft up to 25ft or 20ft up to 40ft mounting heights, 360° pattern. Non-condensing up to 95% RH. 120-347V input. Daylight settings available. Order separately or factory install.</p>	MS2-OPD-3	M1
	<p><b>Microwave Motion Sensor</b>                      Sensor parameters set by remote (RC01). Dimming control. Detection from 15ft up to 48ft mounting height, 360° pattern. IP65 rated. 120-277V input. Daylight settings available. Order separately or factory install.</p>	MS1-DHR-KO-1	M4
	<p><b>Microwave Motion Sensor</b>                      Sensor parameters set by remote (RC01). Dimming control. Detection from 15ft up to 48ft mounting height, 360° pattern. IP65 rated. 347V-480V input. Daylight settings available. Order separately or factory install.</p>	MS1-DHR-KO-4	M5
	<p><b>PIR Motion Sensor</b>                      Sensor parameters set by dip switch, or optional remote (RC-100). Dimming control. Two detection lenses included for 8ft up to 25ft or 20ft up to 40ft mounting heights, 360° pattern. Non-condensing operation up to 95% RH. 120-347V input. Daylight settings available. Order separately or factory install.</p>	MS2-DPX-3	M10
	<p><b>Leviton® PIR Motion Sensor</b>                      Sensor parameters set by dial. Two detection lenses included for 8ft up to 25ft or 20ft up to 40ft mounting heights, 360° pattern. Aisle mask included. Non-condensing operation up to 90% RH. High inrush stability, auto temperature calibration, return to last state &amp; false detection intelligence. 120-347V input. Order separately or factory install.</p>	OSFHU-CTW	M40




**SENSOR ACCESSORIES**

IMAGE	DESCRIPTION	MODEL NUMBER	FACTORY-INSTALLED CODE
	<p><b>Microwave Motion Sensor</b>                      Sensor parameters set by required remote (RC02). Dimming control. Detection up to 49 ft mounting height, 360 pattern. IP65 rated. 12V input. Daylight settings available. Order separately or factory install.</p>	MSF-DMR-12	M2
	<p><b>PIR Motion Sensor</b>                      Sensor parameters set by required remote (RC02). Dimming control. Detection up to 20 ft mounting height, 360 pattern. IP65 rated. 12V input. Daylight settings available. Order separately or factory install.</p>	MSF-DPR-12	M12

**SENSOR ACCESSORIES**

IMAGE	DESCRIPTION	MODEL NUMBER	FACTORY-INSTALLED CODE
	<p><b>Leviton® PIR Motion Sensor</b>                      Sensor parameters set by dial. Two 360° detection lenses included for 8ft up to 25ft or 20ft up to 40ft mounting heights. Aisle mask included. Non-condensing operation up to 90% RH. High inrush stability, auto temperature calibration, return to last state &amp; false detection intelligence. 240/480V input. Order separately or factory install.</p>	OSFHU-C4W	M41
	<p><b>Leviton® PIR Motion Sensor</b>                      Sensor parameters set by DIP switch, no remote available. Dimming control. IP65 rated. 120-347V Input. Daylight settings available. Order separately or factory install.</p>		
	High mount lens (up to 45ft)	HBE11-IUB-H	M46
	Low mount lens (8ft-16ft)	HBE11-IUB-L	M47
	High mount lens aisle mask (up to 45ft)	HBE11-IUB-HA	M48
	Low mount lens aisle mask (8ft-16ft)	HBE11-IUB-LA	M49

**SENSOR REMOTES**

IMAGE	DESCRIPTION	MODEL NUMBER	COMPATIBLE WITH
	Remote control for programming motion sensors. One remote can control an entire facility. Store settings in remote, and apply them to each fixture with one button. Manual dimming from 100-10%. Daylight settings can be disabled.	RC01	MS1-DHR-KO-1 MS1-DHR-KO-4
	Remote control for programming motion sensors. One remote can control an entire facility. Store settings in remote, and apply them to each fixture with one button. On/Off mode allows fixture to be set at dim levels from 10-100%.	RC02	MSF-DMR-12 MSF-DPR-12
	Remote control for programming motion sensors. One remote can control an entire facility. Store settings in remote, and apply them to each fixture with one button. On/Off mode allows fixture to be set at dim levels from 10-100%.	RC-100	MS2-DPX3

## ELECTRICAL INFORMATION

INPUT VOLTAGE	POWER (W)	APPARENT POWER (VA)	SYSTEM POWER (W)	CURRENT DRAW AT 120V <sub>ac</sub>	CURRENT DRAW AT 208V <sub>ac</sub>	CURRENT DRAW AT 240V <sub>ac</sub>	CURRENT DRAW AT 277V <sub>ac</sub>	CURRENT DRAW AT 347V <sub>ac</sub>
120-277V	90W	96.2VA	92.6W	0.799A	0.451A	0.389A	0.344A	-
	130W	129.7VA	133.1W	1.070A	0.621A	0.545A	0.490A	-
	165W	167.5VA	163.9W	1.376A	0.796A	0.696A	0.619A	-
	220W	222.8VA	223.6W	1.872A	1.050A	0.911A	0.798A	-
	320W	321.4VA	325.8W	2.662A	1.543A	1.351A	1.196A	-
120-347V	90W	90.0VA	87.3W	0.756A	0.425A	0.371A	0.327A	0.275A
	130W	130.8VA	132.8W	1.079A	0.640A	0.554A	0.486A	0.398A
	165W	169.7VA	163.5W	1.421A	0.800A	0.699A	0.618A	0.523A
	220W	214.7VA	213.8W	1.906A	1.056A	0.908A	0.798A	0.653A
	320W	321.9VA	328.0W	2.621A	1.536A	1.316A	1.153A	0.951A
INPUT VOLTAGE	POWER (W)	INRUSH CURRENT (A)		DRIVER SURGE PROTECTION				
120-277V	90W	<60A		L-N: 2kV, L/N-PE: 2kV				
	130W	<60A		L-N: 1kV, L/N-PE: 2kV				
	165W	<60A		L-N: 2kV, L/N-PE: 2kV				
	220W	<60A		L-N: 2kV, L/N-PE: 2kV				
	320W	<80A		L-N: 4kV, L/N-PE: 6kV				
120-347V	90W	<60A		L-N: 2kV, L/N-PE: 4kV				
	130W	<60A		L-N: 2kV, L/N-PE: 4kV				
	165W	<60A		L-N: 2kV, L/N-PE: 4kV				
	220W	<60A		L-N: 2kV, L/N-PE: 4kV				
	320W	<80A		L-N: 4kV, L/N-PE: 6kV				

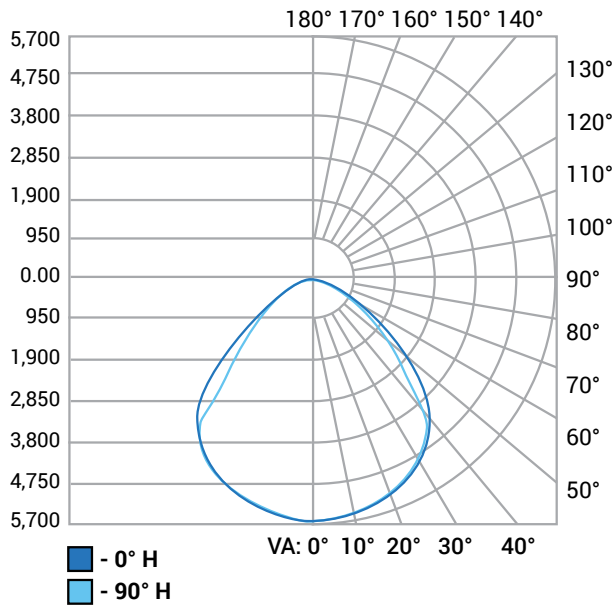


## PHOTOMETRIC INFORMATION

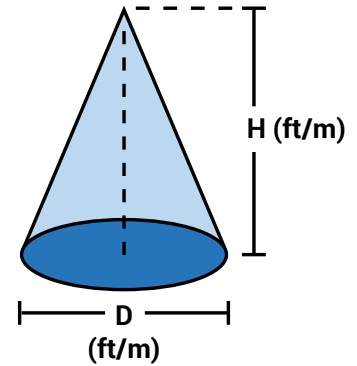
### POLAR CANDELA DISTRIBUTION

POWER  
**90W**

VOLTAGE  
**120-277V**



### ILLUMINANCE AT A DISTANCE

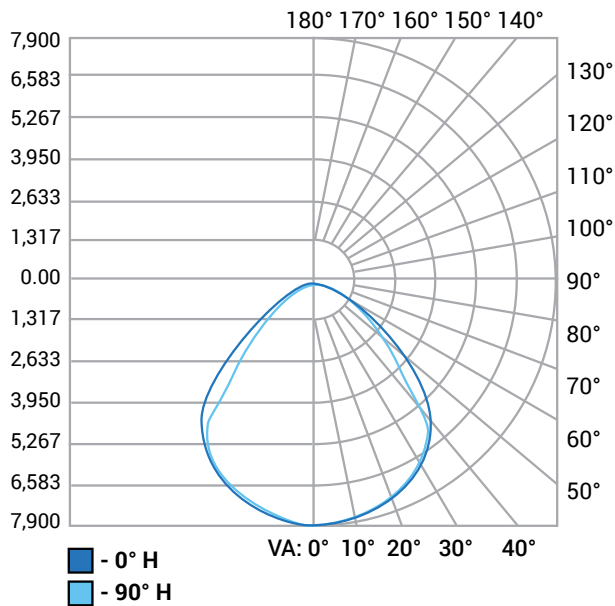


H (ft/m)	LUX	FC	D (ft/m)
6.6' (2m)	1,418.5	131.8	13.1' (4.0m)
9.8' (3m)	630.4	58.6	19.7' (6.0m)
13.1' (4m)	354.6	32.9	26.3' (8.0m)
16.4' (5m)	227.0	21.09	32.9' (10.0m)
19.7' (6m)	157.6	14.6	39.4' (12.0m)

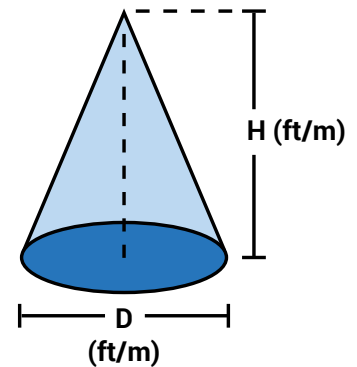
### POLAR CANDELA DISTRIBUTION

POWER  
**130W**

VOLTAGE  
**120-277V**



### ILLUMINANCE AT A DISTANCE



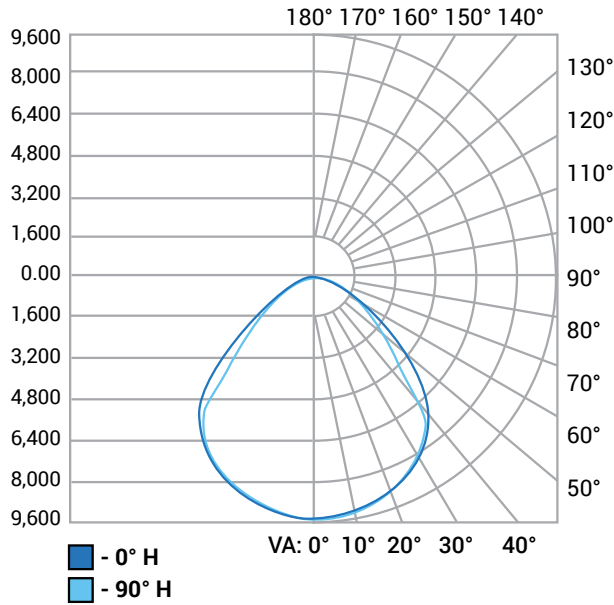
H (ft/m)	LUX	FC	D (ft/m)
6.6' (2m)	1,963.3	182.4	13.1' (4.0m)
9.8' (3m)	868.2	80.7	19.4' (5.9m)
13.1' (4m)	488.4	45.4	26.0' (7.9m)
16.4' (5m)	312.6	29.0	32.5' (9.9m)
19.7' (6m)	217.1	20.2	39.1' (11.9m)

\*Based on operation at 4000K & 120V.

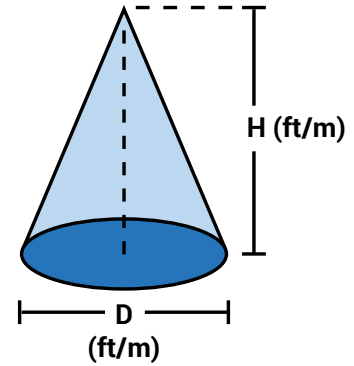
## PHOTOMETRIC INFORMATION

### POLAR CANDELA DISTRIBUTION

POWER  
**165W**  
VOLTAGE  
**120-277V**



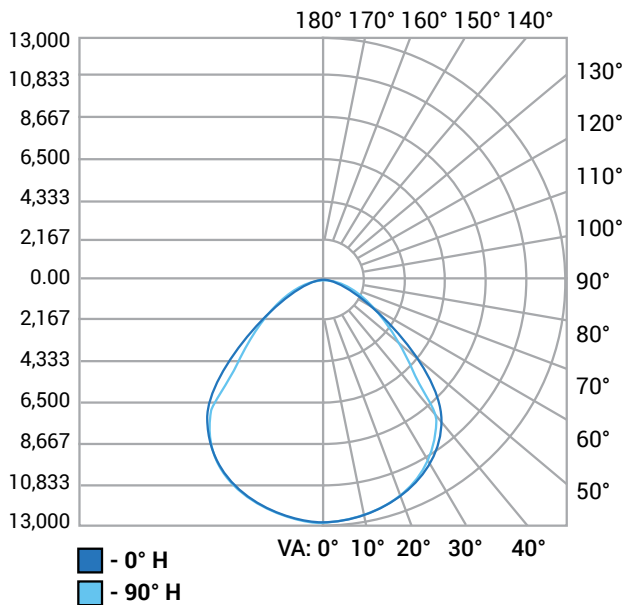
### ILLUMINANCE AT A DISTANCE



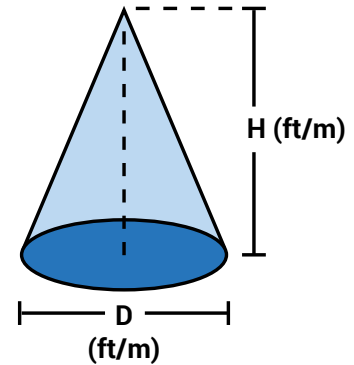
H (ft/m)	LUX	FC	D (ft/m)
6.6' (2m)	2,379.2	221.0	13.1' (4.0m)
9.8' (3m)	1,057.4	98.2	19.7' (6.0m)
13.1' (4m)	594.8	55.3	26.3' (8.0m)
16.4' (5m)	380.7	35.4	32.9' (10.0m)
19.7' (6m)	264.4	24.6	39.4' (12.0m)

### POLAR CANDELA DISTRIBUTION

POWER  
**220W**  
VOLTAGE  
**120-277V**



### ILLUMINANCE AT A DISTANCE



H (ft/m)	LUX	FC	D (ft/m)
6.6' (2m)	3,162.1	293.8	13.4' (4.1m)
9.8' (3m)	1,405.4	130.6	20.4' (6.2m)
13.1' (4m)	790.5	73.4	26.9' (8.2m)
16.4' (5m)	505.9	47.0	33.8' (10.3m)
19.7' (6m)	351.3	32.6	40.7' (12.4m)

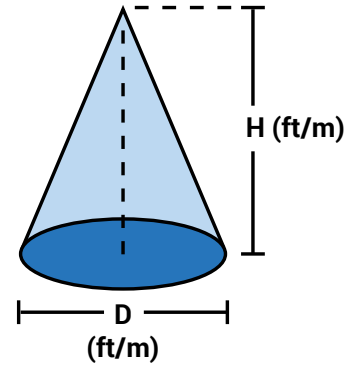
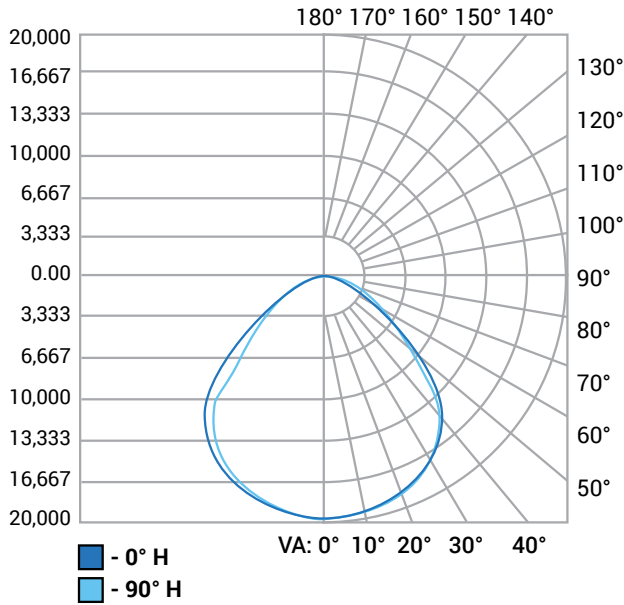
\*Based on operation at 4000K & 120V.

## PHOTOMETRIC INFORMATION

### POLAR CANDELA DISTRIBUTION

### ILLUMINANCE AT A DISTANCE

POWER  
**320W**  
  
VOLTAGE  
**120-277V**



H (ft/m)	LUX	FC	D (ft/m)
6.6' (2m)	4,795.2	445.5	13.5' (4.1m)
9.8' (3m)	2,131.2	198.0	20.4' (6.2m)
13.1' (4m)	1,198.8	111.4	26.9' (8.2m)
16.4' (5m)	767.2	71.3	33.8' (10.3m)
19.7' (6m)	532.8	49.5	40.4' (12.3m)

\*Based on operation at 4000K & 120V.