



Model #	
Type	
Project	
Date	

HBX2-SERIES MONOPOINT HIGH BAY

The HBX2-Series is the most versatile Monopoint High Bay offered in the North American market. Built with lightweight aluminum die cast construction it is a lightweight fixture that can be configured for almost any application. With multiple configurable options including mounting methods, reflectors, wire guards, frosted lens, side or center mount 12V remote controlled motion sensors and surge protectors the HBX2 is the only high bay you'll need to consider to meet the demands of every project.



HIGHLIGHTS

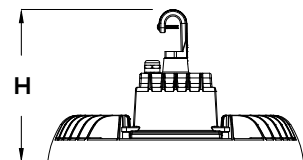
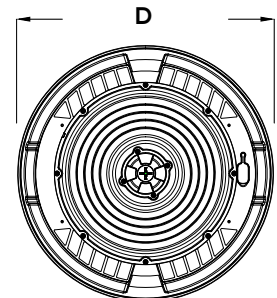
- Up to 155 lm/W
- 80+ CRI
- Polycarbonate annular lens for even 360° light dispersal. Optional frosted lens for reduced glare.
- IP65, IK10 & 3G rated for tough environments. Optional construction available for; NSF/ANSI 2 certified and/or NEMA 4X.
- Native 90° beam angle
- Powdercoated aluminum driver box and housing
- 0-10V dimming
- Features an optional low voltage motion sensor for occupancy detection and dimming control
- Pre-installed 10 foot whip for quick installations
- 10kV surge protection included, optional 20kV available
- Backed by a worry-free 5 year warranty



APPLICATIONS

Designed for warehouse, gymnasium, commercial, manufacturing, and industrial applications.

DIMENSIONS				
VOLTAGE (V)	POWER (W)	D (inches/mm)	H (inches/mm)	WEIGHT (kg/lbs)
120-277	100	Ø13" (Ø330mm)	7-3/4" (196mm)	3.2kg / 7.2lbs
	150			3.5kg / 7.7lbs
	200			3.5kg / 7.7lbs
	240	Ø15-3/8" (Ø390mm)	8-11/16" (220mm)	5.8kg / 12.8lbs
	300			6.7kg / 14.8lbs
277-480	100	Ø13" (Ø330mm)	7-3/4" (196mm)	4.0kg / 8.9lbs
	150			4.0kg / 8.9lbs
	200			4.3kg / 9.4lbs
	240	Ø15-3/8" (Ø390mm)	8-11/16" (220mm)	6.5kg / 14.3lbs
	300			7.0kg / 15.3lbs



ORDERING GUIDE

SERIES	POWER (W)	CCT	VOLTAGE / DIMMING
HBX2	100: 100W	4: 4000K	1: 120-277V, 0-10V dimming, internal connection
	150: 150W	5: 5000K	2: 277-480V, 0-10V dimming, internal connection
	200: 200W		10: 120-277V, 10' 0-10V 18/2 cord provided, external connection
	240: 240W		20: 277-480V, 10' 0-10V 18/2 cord provided, external connection
	300: 300W		*Options 10 & 20 are factory-installed modifications

FACTORY-INSTALLED OPTIONS

CUSTOM CORD LENGTH	CORD END	SENSOR	SURGE PROTECTION	LENS
Blank: Default 10' 18/3 black cord B1xx*: 300V 18/3 black cord XX to specify length, up to 99' B2xx*: 600V 18/3 black cord XX to specify length, up to 99' Custom length required (in feet) *length of 0-10V dimming cord will override and match custom cord length selected	Blank: Default, no cord end N01: 125V 15A straight plug N02: 250V 15A straight plug N04: 125V 15A locking plug N05: 250V 15A locking plug N06: 277V 15A locking plug N07: 125V 20A straight plug N08: 250V 20A straight plug N09: 277V 20A straight plug N10: 125V 20A locking plug N11: 250V 20A locking plug N12: 277V 20A locking plug N13: 347V 20A locking plug N14: 480V 20A locking plug	Blank: Default, no sensor M2: Microwave centre-mount motion sensor, dimming, 12VDC M3: Microwave motion sensor and mounting arm, dimming, 12VDC M12: PIR centre-mount motion sensor, dimming, 12VDC M13: PIR motion sensor and mounting arm, dimming, 12VDC *RC02 required to operate M2, M3, M12 or M13, ordered separately	Blank: 10kV surge protection included SP2: 20kV surge protection	Blank: Clear Fresnel lens FR: Frosted Lens

FACTORY-INSTALLED OPTIONS

EMERGENCY BATTERY	NSF RATING
Blank: Default, no battery backup EB40: Emergency battery backup (40W, 100-277V) * EB40 option interferes with the yoke mount and are not compatible together.	Blank: Default, no rated FD*: NSF/ANSI 2 rated * See "optional accessories" for NSF restrictions.

MODEL SELECTION

FACTORY-INSTALLED OPTIONS

SERIES	-	POWER (W)	-	CCT	-	VOLT/DIM	-	X / CORD LENGTH	-	CORD END	-	SENSOR	-	SURGE P.	-	LENS	-	E. BAT	-	NSF
HBX2	-	150	-	5	-	20	-	B235	-	N13	-	M2	-	SP2	-	FR	-	EB40	-	FD

*Note: add factory-installed options in sequence listed

EXAMPLE: HBX2-1505-20-B235-N13-M2-SP2-FR-EB40-FD

ACCESSORIES SELECTION

ORDER	MODEL #	DESCRIPTION
	HBX2-REF-AL	Aluminum reflector, 90° for HBX2 (100-200W models)
	HBX2-REF-AL-L	Aluminum reflector, 90° for HBX2 (240-300W models)
	HBX2-REF-PC	Prismatic reflector, 90° for HBX2 (100-200W models)
	HBX2-REF-PC-L	Prismatic reflector, 90° for HBX2 (240-300W models)
	HBX2-REF-CL	PC cone lens for HBX2 prismatic reflectors (all models)
	HBX2-34NPT	3/4" NPT adaptor for HBX2 (all models)
	HBX2-CARABINER	Carabiner for Monopoint High Bays (all models)
	HBX2-EYEBOLT	Eyebolt for HBX2 (all models)
	HBX2-SPIKES	Bird spikes for HBX2 (12 spikes per kit)
	HBX2-WG	Wireguard for HBX2 (100-200W models)
	HBX2-WG-L	Wireguard for HBX2 (240-300W models)
	HBX2-YK	Mounting Yoke for HBX2 (100-200W models)
	HBX2-YK-L	Mounting Yoke for HBX2 (240-300W models)
	RC02	Remote for motion sensors (one remote is required if ordering): HBX2-MS (Factory-Installed code M2) HBX2-MS-MA (Factory-Installed code M3) HBX2-MS-MA-L (Factory-Installed code M3) HBX2-MSP (Factory-Installed code M12) HBX2-MSP-MA (Factory-Installed code M13) HBX2-MSP-MA-L (Factory-Installed code M13)
	EBF-40-3	Emergency Battery Football, 40W, 100-277V
	EBF-CONN-12	1/2" NPT hollow double ended threaded connector
	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

- Matte black die-cast aluminum
- Over-sized, hinged junction box with captive screws
- 1/2" NPT knockouts for daisy chaining or controls
- 10-foot black 18/3 cord
- Polycarbonate Fresnel lens
- Native 90° beam angle

INSTALLATION

- Mounting hook included
- Pre-installed 10' power cord
- Optional: yoke or pendant mount

ELECTRICAL

- "-1" models designed to operate between 120-277V
- "-2" models designed to operate between 277-480V
- All models include 10kV surge protector
- Power Factor >0.9
- THD <20%
- 0-10V dimming, dim-to-off

LISTINGS & RATINGS

- cULus / cETLus
- DLC Premium
- Wet location
- RoHS compliant
- FCC compliant
- IP65 rated
- 3G rated
- IK10 rated
- Optional: NSF/ANSI 2 certified and/or NEMA 4X
- Listed for use in:
 - 100W/150W/240W: -40°C to 55°C (-40°F to 131°F)
 - 200W & 300W: -40°C to 50°C (-40°F to 122°F)

RATED LIFE & WARRANTY




- LED system: >54,000 hours at L70
- 5 year warranty (visit premiseled.com/warranty/)

ORDERING INFORMATION





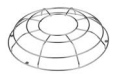

INPUT VOLTAGE	POWER (W)	CCT (K)	MODEL NUMBER	DELIVERED LUMENS (lm)	EFFICACY (lm/W)	DLC PREMIUM	
120-277V	100W	4K	HBX2-1004-1	15,857 lm	155 lm/W	PAOLMLLL	
		5K	HBX2-1005-1	15,935 lm	155 lm/W	PON81RKB	
	150W	4K	HBX2-1504-1	23,251 lm	151 lm/W	PK4GUIN7	
		5K	HBX2-1505-1	23,363 lm	151 lm/W	PDNMGLD9	
	200W	4K	HBX2-2004-1	31,079 lm	152 lm/W	PODXILG7	
		5K	HBX2-2005-1	31,122 lm	153 lm/W	PTX5LV0L	
	240W	4K	HBX2-2404-1	37,655 lm	154 lm/W	PG8SR75S	
		5K	HBX2-2405-1	37,756 lm	154 lm/W	P7RVB3E4	
	300W	4K	HBX2-3004-1	45,150 lm	152 lm/W	PCRGGHBP	
		5K	HBX2-3005-1	45,384 lm	153 lm/W	PPTWV9IG	
	277-480V	100W	4K	HBX2-1004-2	15,548 lm	152 lm/W	PXXBFPP7
			5K	HBX2-1005-2	15,585 lm	153 lm/W	PB706VPS
150W		4K	HBX2-1504-2	22,814 lm	153 lm/W	PSITZA7Q	
		5K	HBX2-1505-2	22,855 lm	154 lm/W	P7NK60W0	
200W		4K	HBX2-2004-2	30,258 lm	151 lm/W	PA7ZZEP5	
		5K	HBX2-2005-2	30,278 lm	151 lm/W	PHGYESGN	
240W		4K	HBX2-2404-2	38,659 lm	154 lm/W	PT8E8WH8	
		5K	HBX2-2405-2	38,718 lm	155 lm/W	PAFZBCQM	
300W		4K	HBX2-3004-2	47,044 lm	151 lm/W	PPWTW996	
		5K	HBX2-3005-2	47,274 lm	152 lm/W	PKPNP55T	

OPTIONAL ACCESSORIES

REFLECTOR ACCESSORIES

IMAGE	DESCRIPTION	MODEL NUMBER	NEMA4X	NSF
	Aluminum reflector, 90° for HBX2	HBX2-REF-AL (100-200W models) HBX2-REF-AL-L (240-300W models)	Yes	No
	Prismatic reflector, 90° for HBX2	HBX2-REF-PC (100-200W models) HBX2-REF-PC-L (240-300W models)	Yes	No
	PC cone lens for HBX2 prismatic reflectors	HBX2-REF-CL (all models)	Yes	No

MOUNTING ACCESSORIES

IMAGE	DESCRIPTION	MODEL NUMBER	NEMA4X	NSF
	3/4" NPT adaptor for HBX2	HBX2-34NPT (all models)	Yes	Yes
	Carabiner for Monopoint High Bays	HBX2-CARABINER (all models)	Yes	No
	Eyebolt for HBX2	HBX2-EYEBOLT (all models)	Yes	Yes
	Bird spikes for HBX2	HBX2-SPIKES (12 spikes per kit) (100-200W models = 4 spikes) (240-300W models = 6 spikes)	Yes	No
	Wireguard for HBX2	HBX2-WG (100-200W models) HBX2-WG-L (240-300W models)	Yes	No
	Mounting Yoke for HBX2	HBX2-YK (100-200W models) HBX2-YK-L (240-300W models)	Yes	Yes



SENSOR ACCESSORIES

IMAGE	DESCRIPTION	MODEL NUMBER	FACTORY-INSTALLED CODE	NEMA4X	NSF
	Microwave Motion Sensor (center mount) 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.	HBX2-MS	M2	Yes	Yes
	Microwave Motion Sensor (side mount) 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.	HBX2-MS-MA (100-200W models) HBX2-MS-MA-L (240-300W models)	M3	No	No
	PIR Motion Sensor (center mount) 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.	HBX2-MSP	M12	Yes	Yes
	PIR Motion Sensor (side mount) 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.	HBX2-MSP-MA (100-200W models) HBX2-MSP-MA-L (240-300W models)	M13	No	No

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. On/Off mode allows fixture to be set at dim levels from 10-100%.	RC02	HBX2-MS HBX2-MS-MA HBX2-MS-MA-L HBX2-MSP HBX2-MSP-MA HBX2-MSP-MA-L

BATTERY ACCESSORY

IMAGE	DESCRIPTION	MODEL NUMBER	NEMA4X	NSF
	<p>Battery with Accessories Fulham 25W Sinusoidal Emergency Micro Inverter (120-277V only) 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>	<p>No</p>	<p>No</p>
	<p>Battery with Accessories EBF Series Battery Driver (100-277V only) Field or factory mounted emergency battery backup with test switch indicator included. Minimum 90 minutes discharge. Over-voltage, short-circuit, over-load and open-circuit protection. Monthly/annual self-diagnostic testing. Remote control included. Dimming control. 100-277V Input. IP65 rated. Battery and accessories all ordered separately</p> <p>1/2" NPT hollow double ended threaded connector</p>	<p>EBF-40-3 EB40 (Factory Installed Code)</p> <p>EBF-CONN-12</p>	<p>No</p>	<p>No</p>

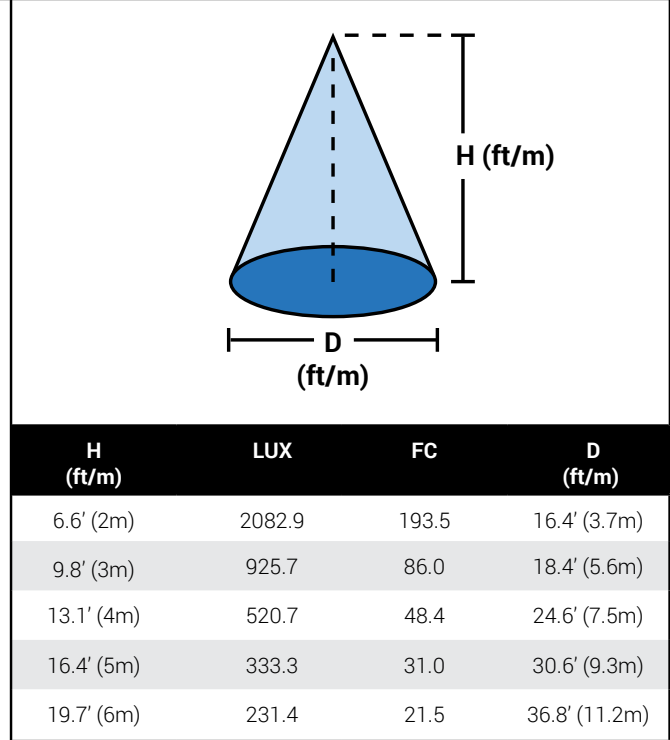
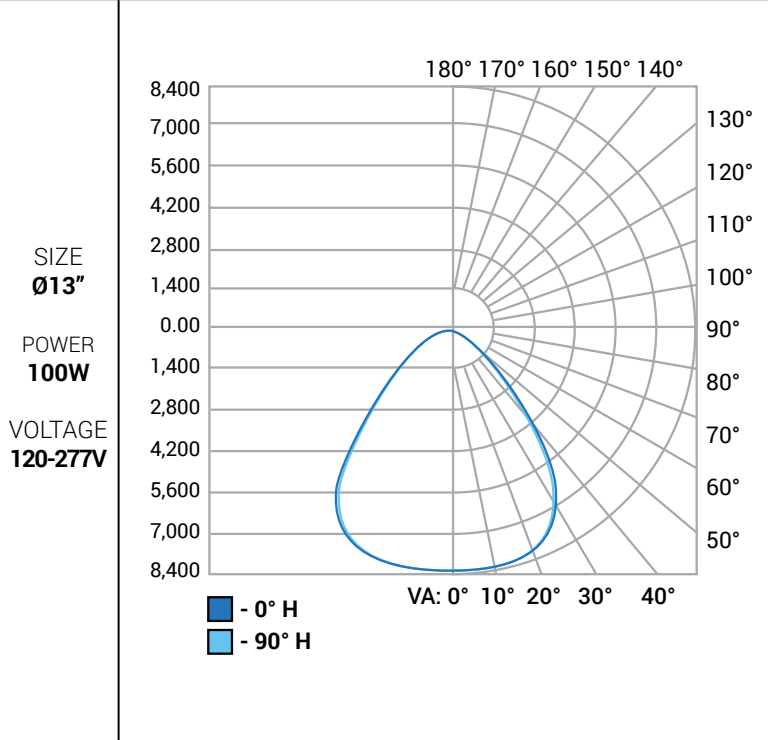
PACKING INFORMATION									
MODEL		CASE QUANTITY				PALLET QUANTITY			
100W		CASE OF 1				66			
150W		CASE OF 1				66			
200W		CASE OF 1				66			
240W		CASE OF 1				38			
300W		CASE OF 1				38			
ELECTRICAL INFORMATION									
INPUT VOLTAGE	POWER (W)	APPARENT POWER (VA)	SYSTEM POWER (W)	CURRENT DRAW AT 120V _{ac}	CURRENT DRAW AT 208V _{ac}	CURRENT DRAW AT 240V _{ac}	CURRENT DRAW AT 277V _{ac}	CURRENT DRAW AT 347V _{ac}	CURRENT DRAW AT 480V _{ac}
120-277V	100W	102.9VA	102.2W	0.851A	0.492A	0.435A	0.391A	-	-
	150W	153.3VA	153.6W	1.276A	0.726A	0.637A	0.565A	-	-
	200W	205.3VA	203.6W	1.689A	0.968A	0.847A	0.742A	-	-
	240W	245.7VA	244.2W	2.067A	1.171A	1.006A	0.884A	-	-
	300W	294.8VA	295.8W	2.467A	1.396A	1.214A	1.064A	-	-
277-480V	100W	102.4VA	101.8W	-	-	-	0.369A	0.296A	0.218A
	150W	149.8VA	148.4W	-	-	-	0.536A	0.434A	0.314A
	200W	196.3VA	199.6W	-	-	-	0.713A	0.570A	0.424A
	240W	232.7VA	249.7W	-	-	-	0.846A	0.671A	0.494A
	300W	292.8VA	310.5W	-	-	-	1.073A	0.849A	0.654A
INPUT VOLTAGE	POWER (W)	INRUSH CURRENT (A)			SURGE PROTECTION				
120-277V	100W	<60A @120V, <100A @277V			Driver = L/N-PE: 10kV, L-N: 10kV Additional = 10kV*				
	150W	<60A @120V, <130A @277V							
	200W	<60A @120V, <130A @277V							
	240W	<60A @120V, <130A @277V							
	300W	<55A @120V, <140A@277V							
277-480	100W	<30A @277V, <38A @347V, <55A @480V							
	150W	<50A @277V, <70A @347V, <90A @480V							
	200W	<50A @277V, <70A @347V, <90A @480V							
	240W	<50A @277V, <70A @347V, <90A @480V							
	300W	<50A @277V, <70A @347V, <90A @480V							

*20kV surge protection option available.

PHOTOMETRIC INFORMATION

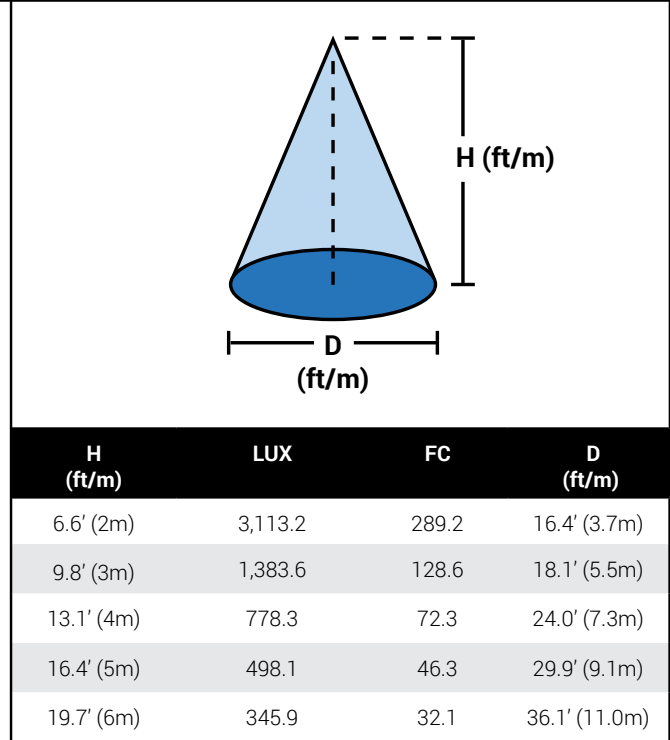
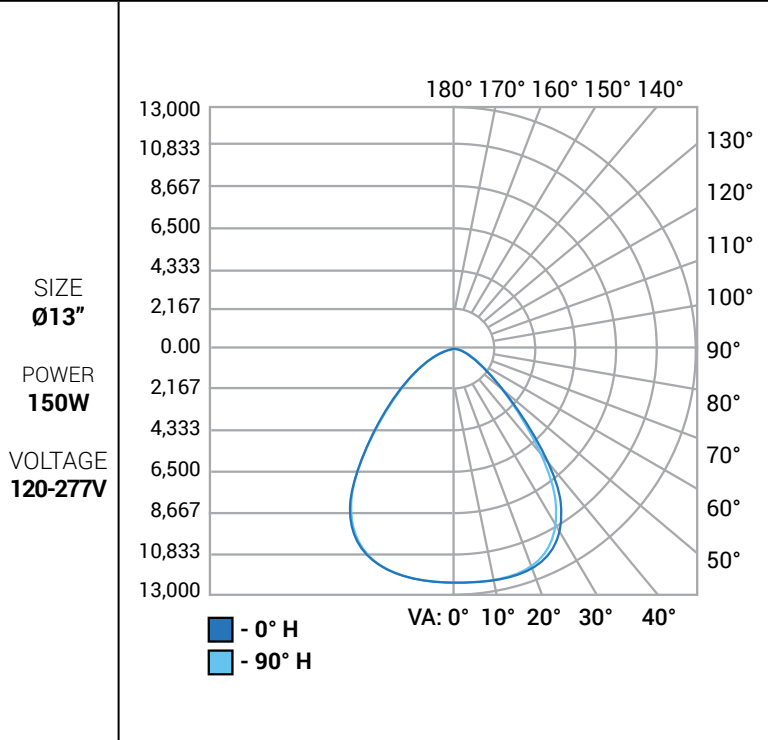
POLAR CANDELA DISTRIBUTION

ILLUMINANCE AT A DISTANCE



POLAR CANDELA DISTRIBUTION

ILLUMINANCE AT A DISTANCE

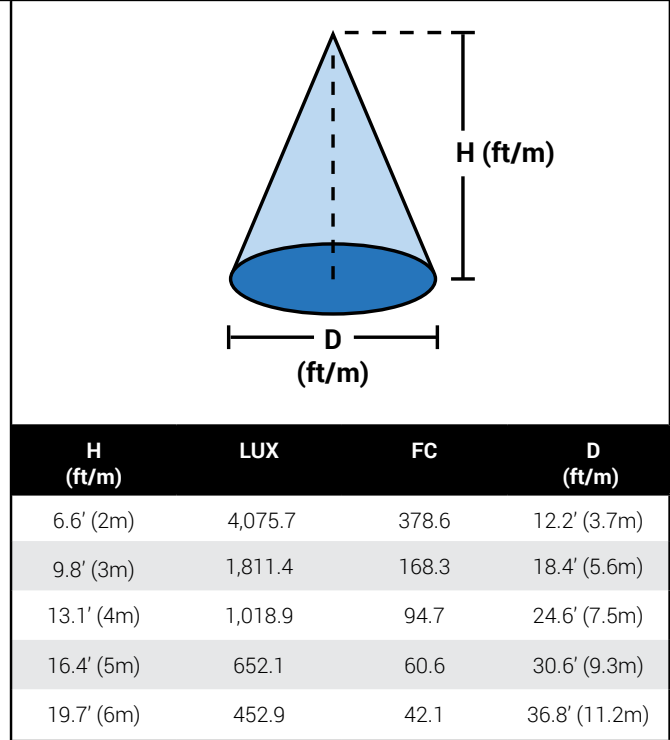
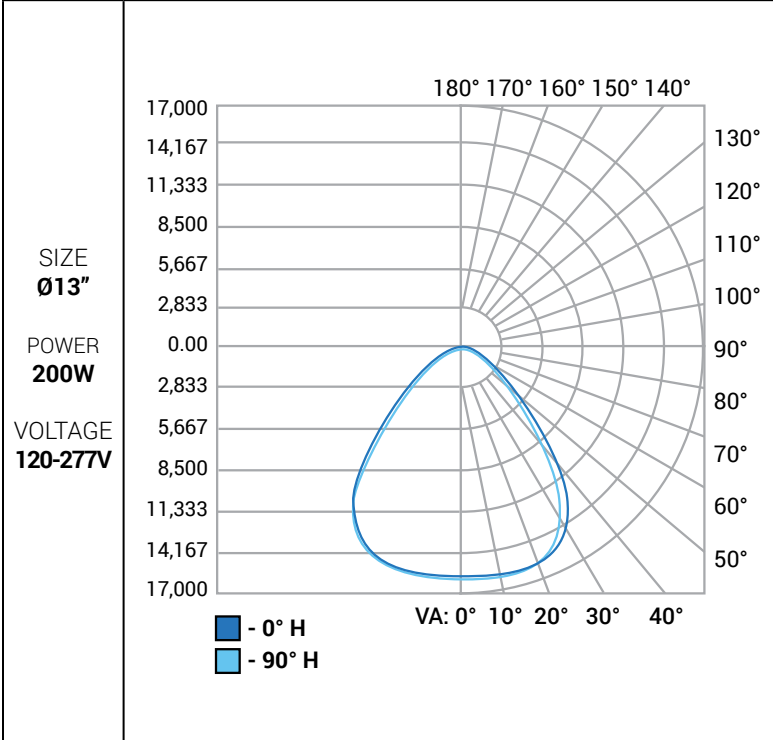


*Based on operation at 4000K & 120V.

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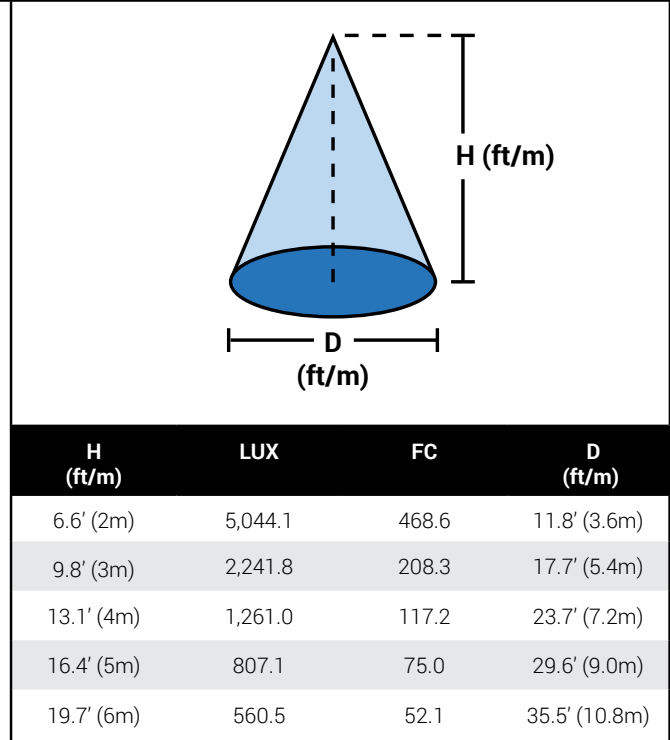
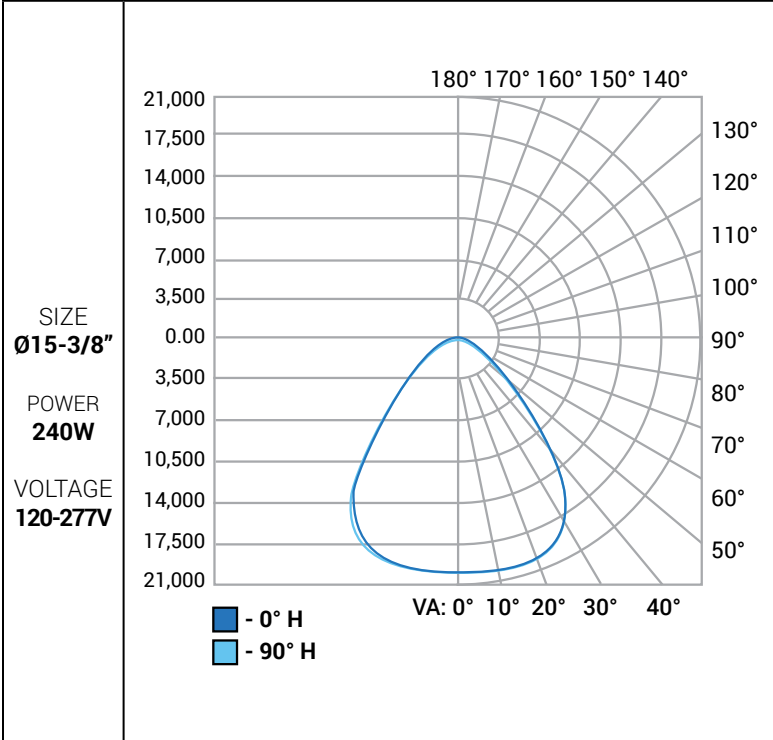
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*Based on operation at 4000K & 120V.

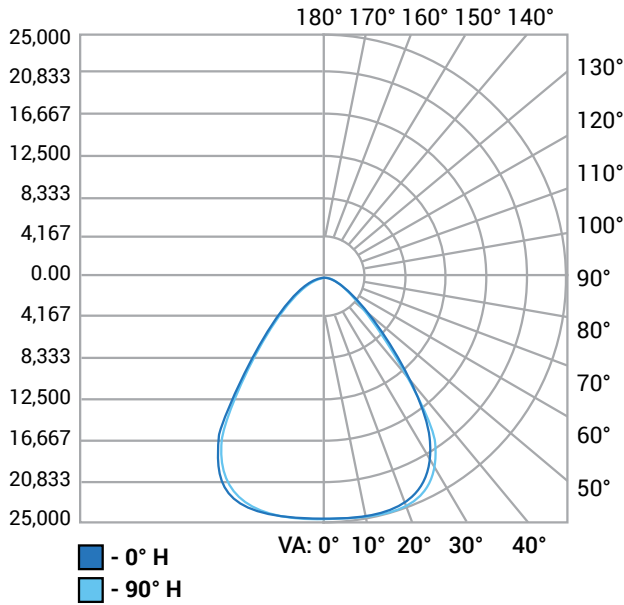
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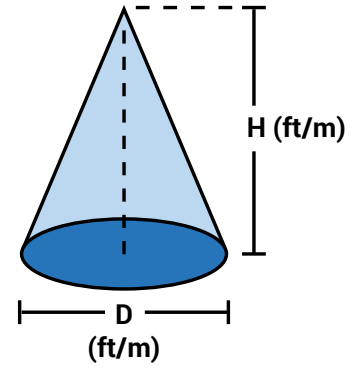
SIZE
Ø15-3/8"

POWER
300W

VOLTAGE
120-277V



ILLUMINANCE AT A DISTANCE



H (ft/m)	LUX	FC	D (ft/m)
6.6' (2m)	6,067.1	563.7	11.8' (3.6m)
9.8' (3m)	2,696.5	250.5	17.7' (5.4m)
13.1' (4m)	1,516.8	140.9	23.7' (7.2m)
16.4' (5m)	970.7	90.2	29.6' (9.0m)
19.7' (6m)	674.1	62.6	35.5' (10.8m)

*Based on operation at 4000K & 120V.