



INDUSTRIAL AND COMMERCIAL
LIGHTING MFR SINCE 2003

Project Name:

Catalog #:

Fixture Schedule:

Notes:



MOUNTING OPTIONS

Pendant Hanger



Chain Kit



Surface Mounting



G2 LED CONDOR HIGH BAY

Condor High Bay LED lighting fixtures combine high-performance LEDs, and drivers. The HBLED is the lighting solution for a wide variety of applications and mounting heights. Precision designed optics, multiple distributions, and a choice of lumen outputs and color temperatures make the energy-efficient LED Condor the ideal solution for industrial, commercial and other high bay applications.

FEATURES:

- Wattage: 90W, 162W, 223W, 321W and 425W
- Voltage: 120-277
- CCT options:
 - 90W, 162W: 4000K or 5000K
 - 223W, 321W, 425W: 5000K only
- CRI: >80
- Efficacy: 131-134LPW
- Lifespan: 100,000 hours
- Manufacturer warranty: 7 Years
- Driver: 0-10V dimmable LED power supplies, current can be adjusted
- Dimming type is continuous, dimmable to 10%
- Suitable for damp location
- Temperature Rated: -4°F to 120°F
- Optional High Bay motion sensor available
- High voltage transformers 480v or 347v (available as special order)
- Lens options: none, frosted and clear
- Multiple mounting options

Series	Wattage	CCT	Lens	Generation	Sensor	Hanging Option
HBLED	90W/	4000K	Blank (none) FR- (frosted) CL- (clear)	G2 (generation 2)	MPC-50H (motion sensor) EFS104 (Bluetooth motion sensor)	Blank (vclips only) 3CHK (3 foot chain) ACCK5LP (5 foot aircraft cable) ACCK10LP (10 foot aircraft cable)
		5000K				
	162W/	4000K		Blank (generation 1)		
		5000K				
	223W/	5000K		G2 (generation 2)		
	223W/					
321W/						
425W/						



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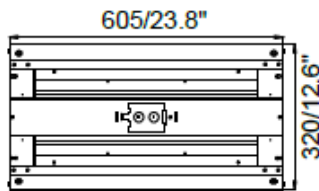
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Fixture Schedule:

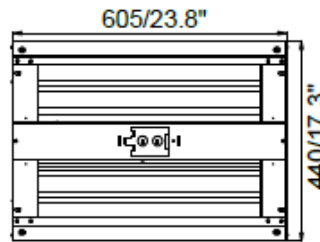
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Dimensions

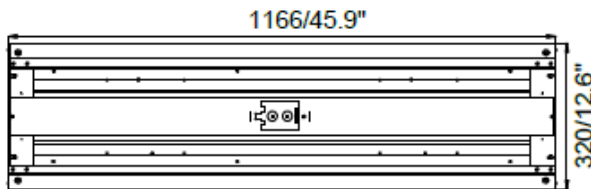
SKU	Length	Width	Depth
HBLED90W/4000KFR-G2	23.8"	12.6"	3.6"
HBLED90W/5000KFR-G2			
HBLED162W/4000KFR-G2	23.8"	12.6"	3.6"
HBLED162W/5000KFR-G2			
HBLED223W/5000KFR	45.9"	12.6"	3.6"
HBLED223W/5000KFR-G2	23.8"	17.3"	3.6"
HBLED321W/5000KFR-G2	45.9"	12.6"	3.6"
HBLED425W/5000KFR-G2	45.9"	17.3"	3.6"



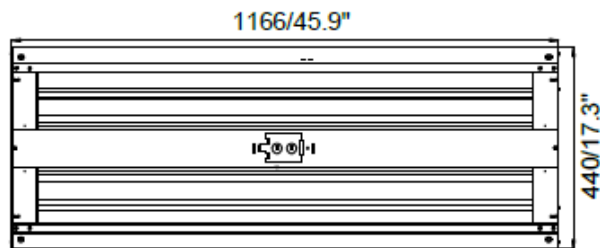
HBLED90, HBLED162



HBLED223 G2



HBLED223 G1, HBLED321



HBLED425

DLC

Series	DLC ID	Wattage	Lumens	CCT
HBLED90W/4000KFR-G2	PLOTQGN30EIO	90W	11790	4000K
HBLED90W/5000KFR-G2	PLWK2DLWSTCP	90W	11790	5000K
HBLED162W/4000KFR-G2	PL1YSJSXX9BE	162W	21222	4000K
HBLED162W/5000KFR-G2	PLMEEQEK07QV	162W	21222	5000K
HBLED223W/5000KFR	PWHB2HCG	223W	29213	5000K
HBLED223W/5000KFR-G2	PLWKMMH1I3DI	223W	29213	5000K
HBLED321W/5000KFR-G2	PLQ59XMW20IS	321W	42051	5000K
HBLED425W/5000KFR-G2	PLFXJEZNTA8H	425W	55675	5000K



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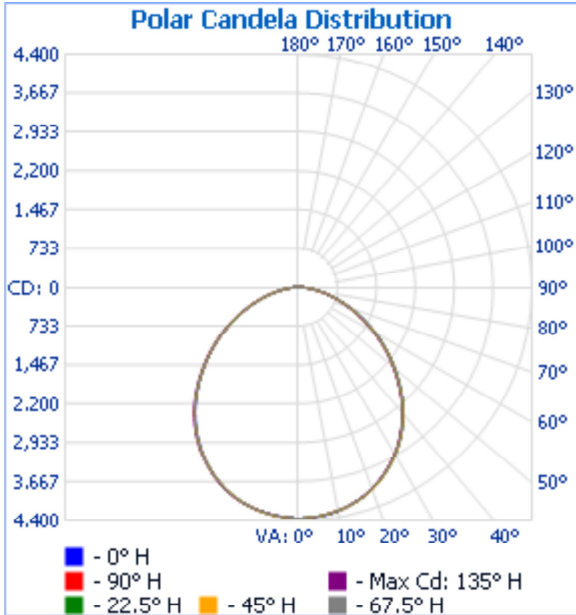
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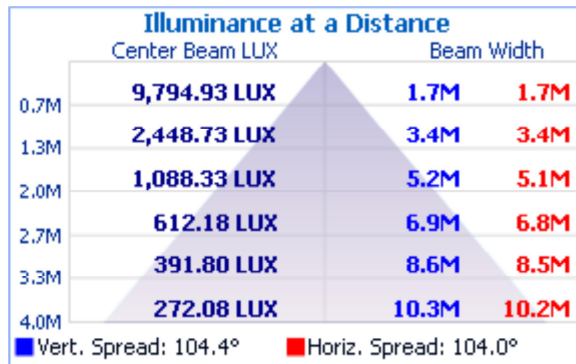
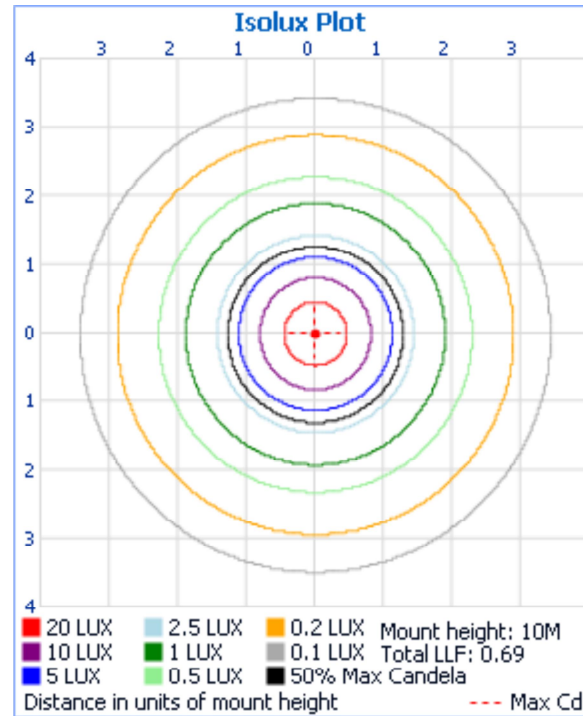
Photometrics

HBLED90W/5000K-G2



Flood Summary

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	97.5%	11,084.0	155.7	156.3
Beam (50%):	70.1%	7,970.4	104	104.4
Total:	100%	11,368.4		



Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	3,369.5	29.6%
0-40	5,469.0	48.1%
0-60	9,304.2	81.8%
60-90	2,022.3	17.8%
70-100	801.1	7%
90-120	14.0	0.1%
0-90	11,326.5	99.6%
90-180	45.7	0.4%
0-180	11,372.2	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	411.6	3.6%	90-100	5.6	0%
10-20	1,180.0	10.4%	100-110	3.9	0%
20-30	1,777.9	15.6%	110-120	4.4	0%
30-40	2,099.4	18.5%	120-130	5.5	0%
40-50	2,082.6	18.3%	130-140	6.9	0.1%
50-60	1,752.6	15.4%	140-150	7.0	0.1%
60-70	1,226.8	10.8%	150-160	6.1	0.1%
70-80	639.9	5.6%	160-170	4.6	0%
80-90	155.6	1.4%	170-180	1.7	0%



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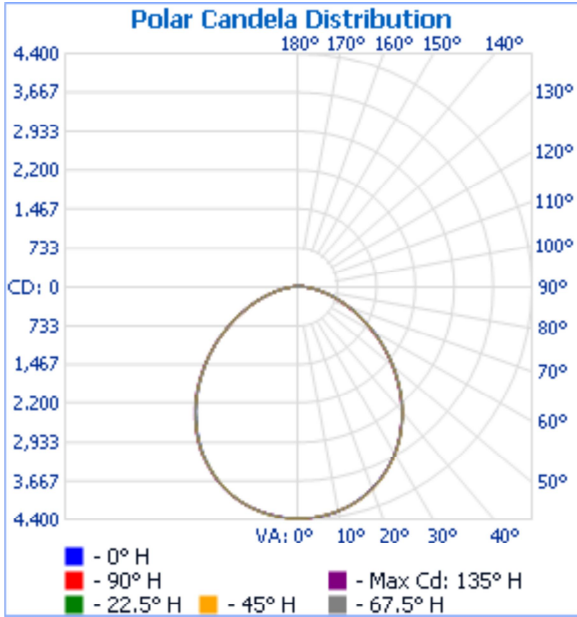
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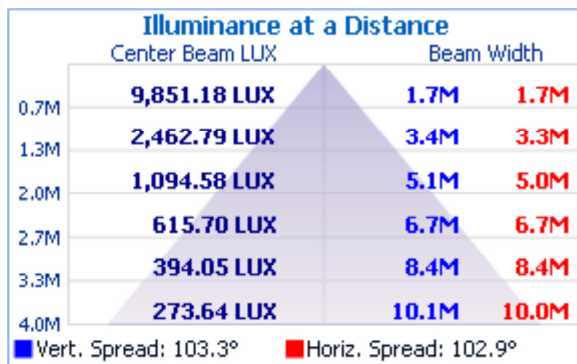
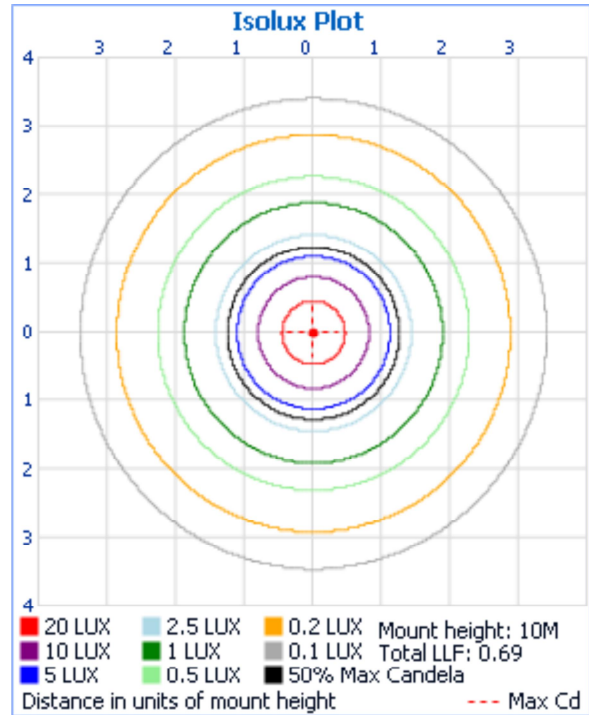
Notes:

HBLED90W/4000K-G2



Flood Summary

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	97.4%	10,977.4	154.8	155.6
Beam (50%):	69.6%	7,837.6	102.9	103.3
Total:	100%	11,261.0		



Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	3,376.7	30%
0-40	5,467.9	48.5%
0-60	9,257.9	82.2%
60-90	1,962.4	17.4%
70-100	763.1	6.8%
90-120	12.9	0.1%
0-90	11,220.3	99.6%
90-180	44.5	0.4%
0-180	11,264.8	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	413.8	3.7%	90-100	4.6	0%
10-20	1,184.1	10.5%	100-110	4.0	0%
20-30	1,778.8	15.8%	110-120	4.4	0%
30-40	2,091.1	18.6%	120-130	5.5	0%
40-50	2,063.5	18.3%	130-140	6.7	0.1%
50-60	1,726.6	15.3%	140-150	6.9	0.1%
60-70	1,203.9	10.7%	150-160	6.1	0.1%
70-80	617.7	5.5%	160-170	4.6	0%
80-90	140.8	1.3%	170-180	1.7	0%



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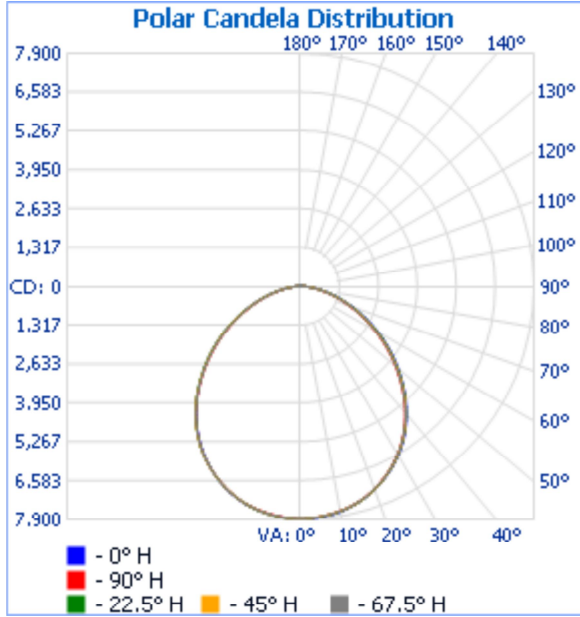
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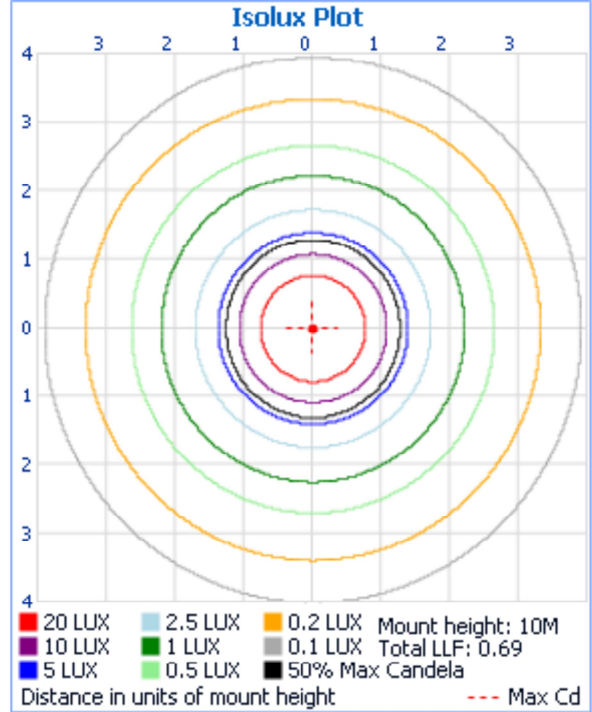
Notes:

HBLED162W/5000K-G2



Flood Summary

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	97.5%	19,972.7	154.6	156
Beam (50%):	70.5%	14,450.5	103.5	104.8
Total:	100%	20,488.5		



Illuminance at a Distance

Distance	Center Beam LUX	Beam Width
0.7M	17,714.03 LUX	1.7M 1.7M
1.3M	4,428.51 LUX	3.5M 3.4M
2.0M	1,968.23 LUX	5.2M 5.1M
2.7M	1,107.13 LUX	6.9M 6.8M
3.3M	708.56 LUX	8.7M 8.5M
4.0M	492.06 LUX	10.4M 10.1M

Vert. Spread: 104.8° Horiz. Spread: 103.5°

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	6,095.3	29.7%
0-40	9,900.9	48.3%
0-60	16,837.6	82.2%
60-90	3,573.4	17.4%
70-100	1,392.5	6.8%
90-120	24.1	0.1%
0-90	20,411.0	99.6%
90-180	84.1	0.4%
0-180	20,495.2	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	744.5	3.6%	90-100	8.5	0%
10-20	2,133.4	10.4%	100-110	7.4	0%
20-30	3,217.4	15.7%	110-120	8.1	0%
30-40	3,805.6	18.6%	120-130	10.2	0%
40-50	3,773.1	18.4%	130-140	12.7	0.1%
50-60	3,163.5	15.4%	140-150	13.4	0.1%
60-70	2,189.5	10.7%	150-160	11.9	0.1%
70-80	1,125.6	5.5%	160-170	8.7	0%
80-90	258.3	1.3%	170-180	3.2	0%



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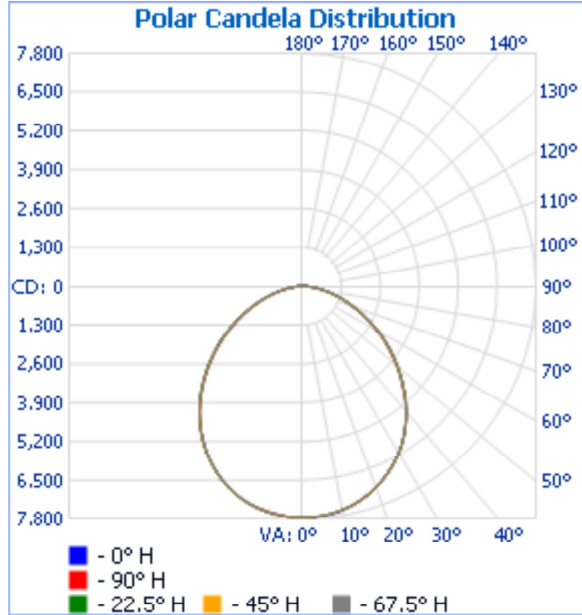
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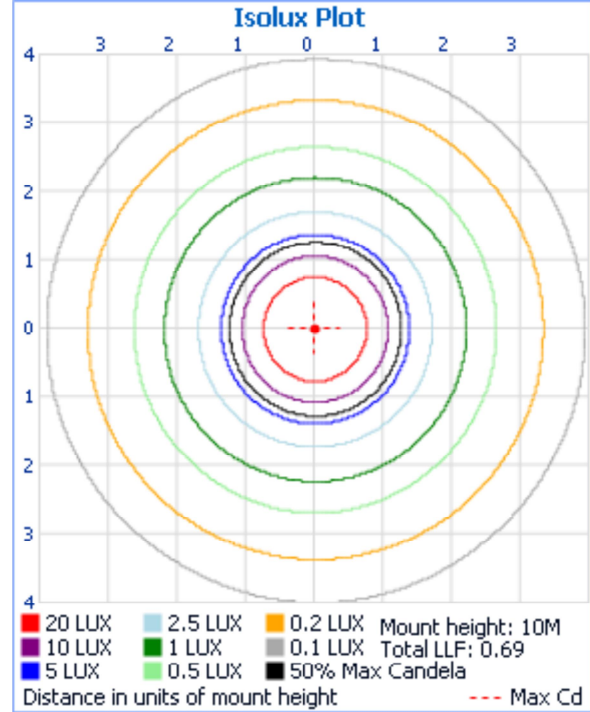
Notes:

HBLED162/4000K-G2



Flood Summary

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	97.4%	19,525.5	155.3	156.2
Beam (50%):	69.2%	13,882.4	102.7	103.6
Total:	100%	20,048.0		



Illuminance at a Distance

Distance	Center Beam LUX	Beam Width
0.7M	17,489.48 LUX	1.7M 1.7M
1.3M	4,372.37 LUX	3.4M 3.3M
2.0M	1,943.28 LUX	5.1M 5.0M
2.7M	1,093.09 LUX	6.8M 6.7M
3.3M	699.58 LUX	8.5M 8.3M
4.0M	485.82 LUX	10.2M 10.0M

■ Vert. Spread: 103.6° ■ Horiz. Spread: 102.7°

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	5,982.9	29.8%
0-40	9,689.4	48.3%
0-60	16,423.4	81.9%
60-90	3,544.4	17.7%
70-100	1,414.3	7.1%
90-120	26.3	0.1%
0-90	19,967.8	99.6%
90-180	87.0	0.4%
0-180	20,054.7	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	734.2	3.7%	90-100	10.3	0.1%
10-20	2,098.5	10.5%	100-110	7.7	0%
20-30	3,150.3	15.7%	110-120	8.3	0%
30-40	3,706.4	18.5%	120-130	10.5	0.1%
40-50	3,661.9	18.3%	130-140	12.8	0.1%
50-60	3,072.1	15.3%	140-150	13.6	0.1%
60-70	2,140.4	10.7%	150-160	11.9	0.1%
70-80	1,124.4	5.6%	160-170	8.7	0%
80-90	279.6	1.4%	170-180	3.2	0%



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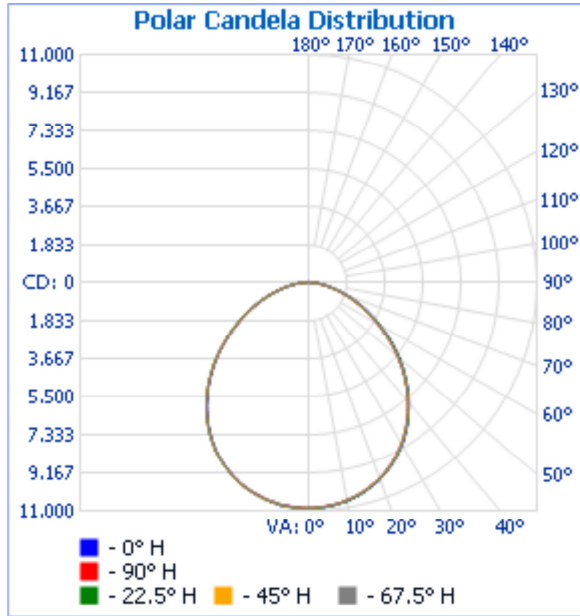
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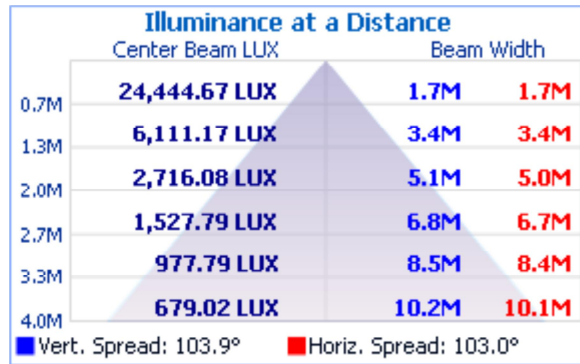
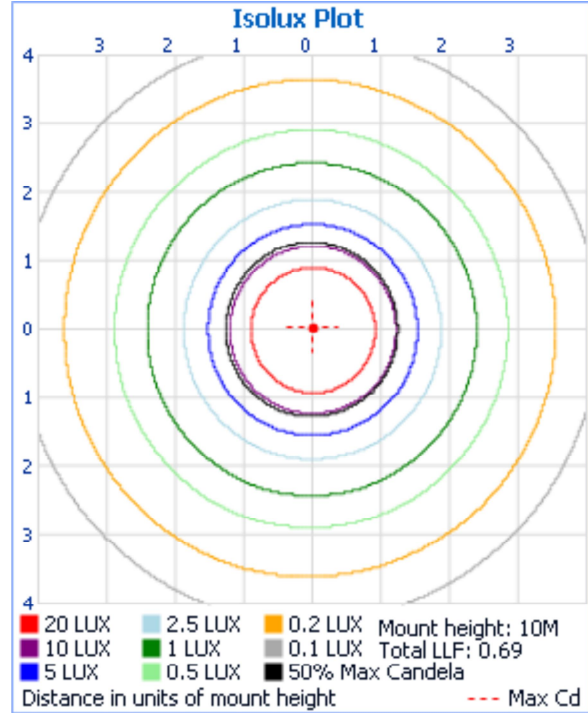
Notes:

HBLED223W/5000K-G2



Flood Summary

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	97.6%	27,366.3	154.9	155.8
Beam (50%):	69.9%	19,610.2	103	103.9
Total:	100%	28,034.3		



Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	8,391.4	29.9%
0-40	13,605.1	48.5%
0-60	23,070.6	82.3%
60-90	4,898.5	17.5%
70-100	1,912.6	6.8%
90-120	24.8	0.1%
0-90	27,969.1	99.7%
90-180	74.6	0.3%
0-180	28,043.7	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	1,027.9	3.7%	90-100	10.6	0%
10-20	2,940.5	10.5%	100-110	7.1	0%
20-30	4,422.9	15.8%	110-120	7.1	0%
30-40	5,213.7	18.6%	120-130	8.7	0%
40-50	5,155.6	18.4%	130-140	10.7	0%
50-60	4,309.9	15.4%	140-150	11.5	0%
60-70	2,996.5	10.7%	150-160	9.7	0%
70-80	1,543.3	5.5%	160-170	6.6	0%
80-90	358.7	1.3%	170-180	2.5	0%



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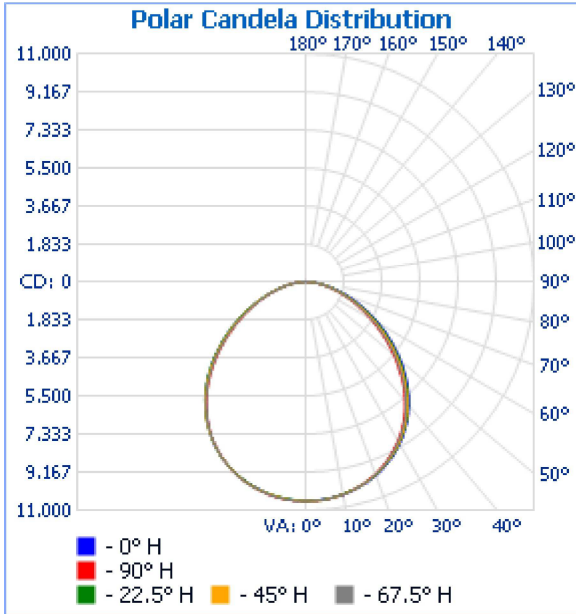
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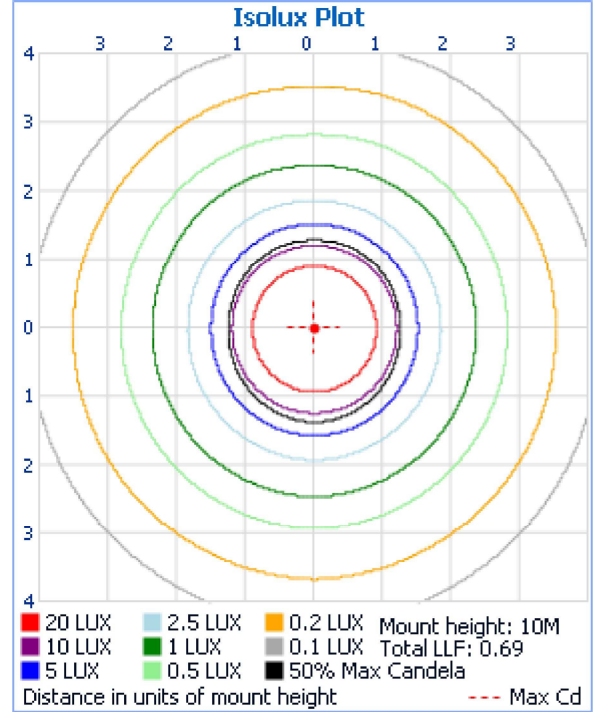
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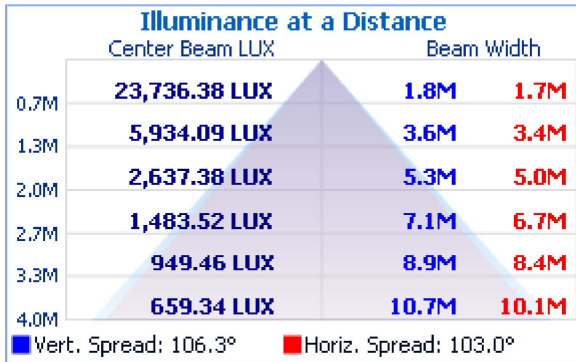


Flood Summary

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	97.5%	26,910.7	154.4	155.9
Beam (50%):	71.2%	19,645.8	103	106.3
Total:	100%	27,583.5		



Mount height: 10M
Total LFF: 0.69
Distance in units of mount height --- Max Cd



Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	8,213.3	29.8%
0-40	13,392.3	48.5%
0-60	22,796.8	82.6%
60-90	4,724.4	17.1%
70-100	1,847.0	6.7%
90-120	27.5	0.1%
0-90	27,521.2	99.7%
90-180	71.0	0.3%
0-180	27,592.2	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-5	251.8	0.9%	90-95	7.1	0%
5-10	747.1	2.7%	95-100	4.5	0%
10-15	1,218.4	4.4%	100-105	4.1	0%
15-20	1,649.5	6.0%	105-110	3.9	0%
20-25	2,022.7	7.3%	110-115	3.9	0%
25-30	2,323.9	8.4%	115-120	4.1	0%
30-35	2,535.7	9.2%	120-125	4.2	0%
35-40	2,643.2	9.6%	125-130	4.5	0%
40-45	2,634.8	9.5%	130-135	4.9	0%
45-50	2,508.6	9.1%	135-140	5.1	0%
50-55	2,283.0	8.3%	140-145	5.0	0%
55-60	1,978.1	7.2%	145-150	4.6	0%
60-65	1,627.8	5.9%	150-155	4.2	0%
65-70	1,261.2	4.6%	155-160	3.6	0%
70-75	901.0	3.3%	160-165	2.9	0%
75-80	571.5	2.1%	165-170	2.4	0%
80-85	285.7	1.0%	170-175	1.6	0%
85-90	77.2	0.3%	175-180	0.6	0%



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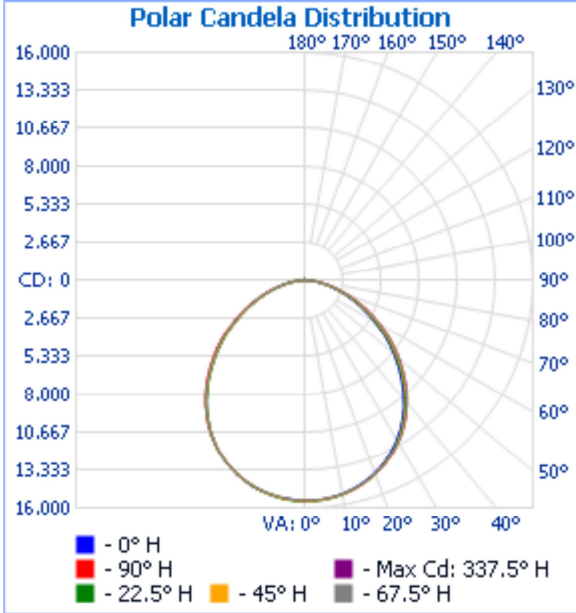
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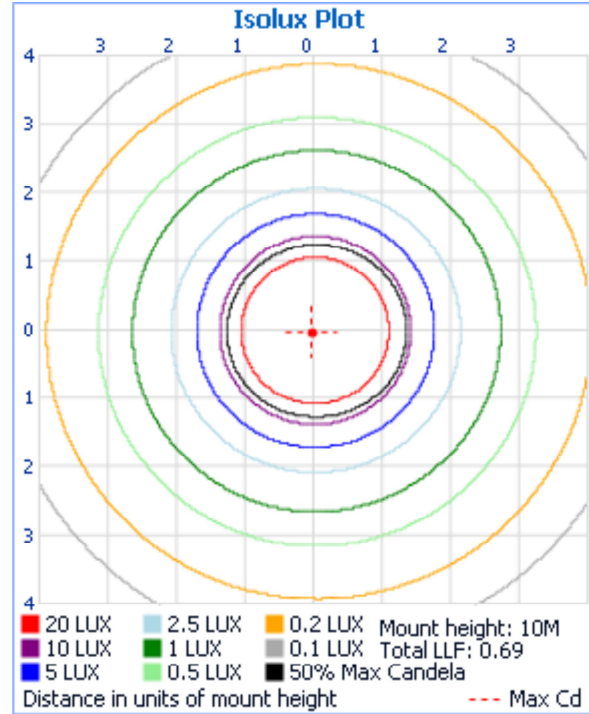
Notes:

HBLED321W/5000K-G2



Flood Summary

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	97.7%	39,407.8	156.2	154.8
Beam (50%):	70.4%	28,420.3	105.6	103.1
Total:	100%	40,335.2		



Illuminance at a Distance

Distance (M)	Center Beam LUX	Beam Width (M)	Beam Width (M)
0.7M	34,866.23 LUX	1.7M	1.8M
1.3M	8,716.56 LUX	3.4M	3.5M
2.0M	3,874.03 LUX	5.0M	5.3M
2.7M	2,179.14 LUX	6.7M	7.0M
3.3M	1,394.65 LUX	8.4M	8.8M
4.0M	968.51 LUX	10.1M	10.5M

Vert. Spread: 103.1° Horiz. Spread: 105.6°

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	12,000.2	29.7%
0-40	19,488.3	48.3%
0-60	33,167.4	82.2%
60-90	7,075.5	17.5%
70-100	2,744.1	6.8%
90-120	36.7	0.1%
0-90	40,242.9	99.7%
90-180	106.1	0.3%
0-180	40,349.0	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	1,466.7	3.6%	90-100	14.7	0%
10-20	4,200.4	10.4%	100-110	11.0	0%
20-30	6,333.0	15.7%	110-120	11.0	0%
30-40	7,488.1	18.6%	120-130	12.7	0%
40-50	7,432.7	18.4%	130-140	15.4	0%
50-60	6,246.4	15.5%	140-150	15.8	0%
60-70	4,346.1	10.8%	150-160	12.8	0%
70-80	2,229.3	5.5%	160-170	9.0	0%
80-90	500.1	1.2%	170-180	3.7	0%



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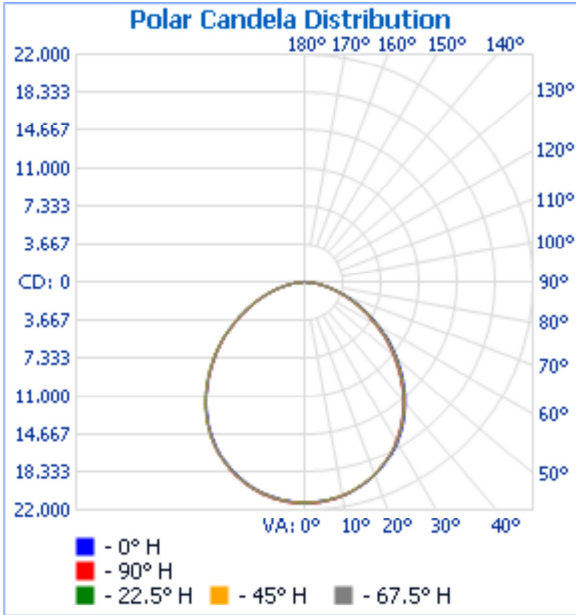
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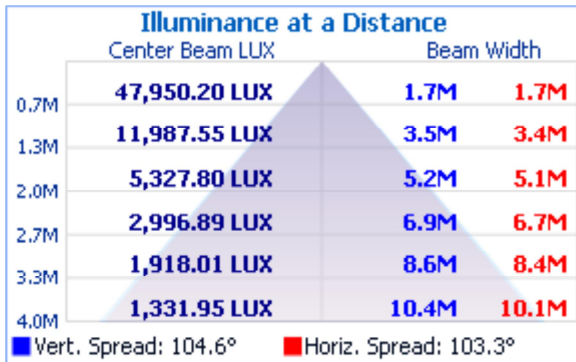
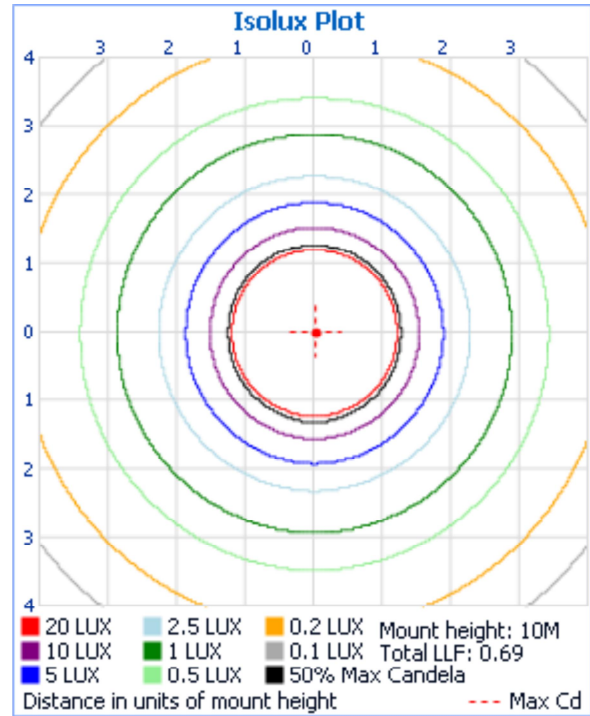
Notes:

HBLED425W/5000-G2



Flood Summary

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	97.5%	54,187.4	156	156.5
Beam (50%):	69.8%	38,802.6	103.3	104.6
Total:	100%	55,556.8		



Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	16,444.1	29.6%
0-40	26,669.0	48%
0-60	45,406.0	81.7%
60-90	10,025.4	18%
70-100	4,031.3	7.3%
90-120	61.7	0.1%
0-90	55,431.4	99.7%
90-180	143.2	0.3%
0-180	55,574.6	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	2,015.4	3.6%	90-100	35.4	0.1%
10-20	5,762.5	10.4%	100-110	13.1	0%
20-30	8,666.1	15.6%	110-120	13.3	0%
30-40	10,224.9	18.4%	120-130	15.4	0%
40-50	10,154.9	18.3%	130-140	17.8	0%
50-60	8,582.2	15.4%	140-150	18.0	0%
60-70	6,029.4	10.8%	150-160	15.1	0%
70-80	3,165.9	5.7%	160-170	10.8	0%
80-90	830.0	1.5%	170-180	4.4	0%



INDUSTRIAL AND COMMERCIAL
LIGHTING MFR SINCE 2003

Project Name:

Catalog #:

Fixture Schedule:

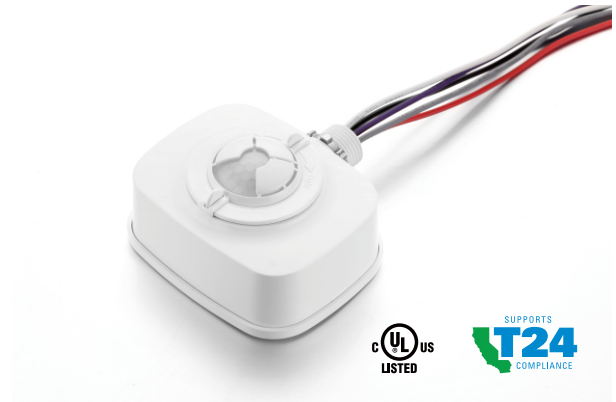
Notes:

External Bluetooth Wireless Fixture Controller With Integrated Daylight And PIR Motion Sensor

The External Bluetooth Wireless Fixture Controller with integrated daylight and PIR motion sensor is a BLE based smart lighting system. It has an APP for both IOS and Android devices to manage and operate the BLE smart lamps and devices by smart phone.

This controller works with the app and utilizes motion sensing and daylight harvesting (dimming lights as more daylight enters your space)

Use the app to manage a network that can have up to 100 controllers connected to it. Set the times fixtures stay on, set up groups of fixtures to work together and create scenes for specific scenarios. For example, set a scene to control light levels for video conferences or presentations.



Model Number

Model	Description
EFS104	External Bluetooth Mesh Wireless Fixture Controller
EFSL1	Standard Lens
EFSL2	High bay lens
EJXX	Extension Joints
LV	Lens Louver

Specifications

Input Voltage	120~277V AC 50/60Hz
Maximum Load	5A, 600W Max. for LED driver only
Power Consumption	1.5W
Dimming	0-10V
Infrared sensor	Omni-directional quad element pyroelectric
Mounting height	15-40ft
Detectable speed	1~10 ft./sec. (0.3~3 m/sec)
Detection range	100ft Max
Op. temperature	-40°F~131°F (-40°C~55°C)
Op. humidity	IP65
Dimensions	L4.03"xW3.91"xH2.08"(L102.4mmxW99.4mmxH52.9mm)

Accessories

The EJ30, EJ50 and EL40 are extension joints that can be used to extend the sensor mount position for 30, 40 and 50mm. Combine the joints if longer extension is required.



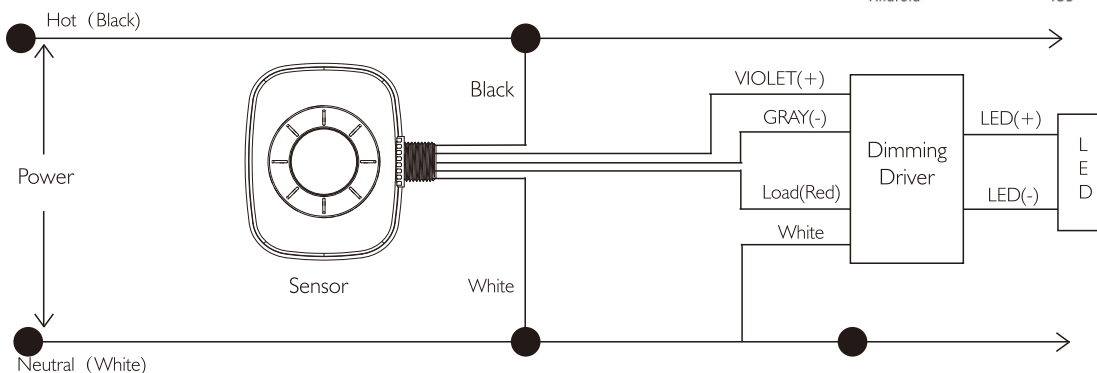
The LENS LOUVER allows for adjustment to the detection area.



APP Download



Wiring





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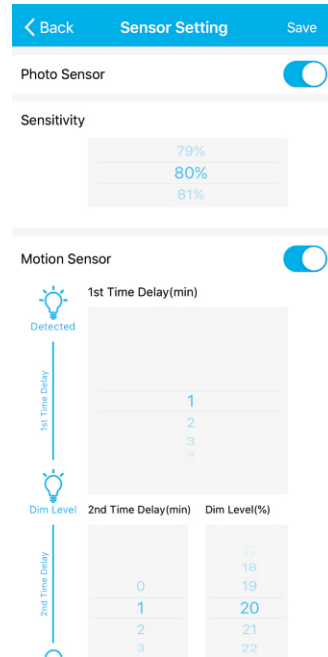
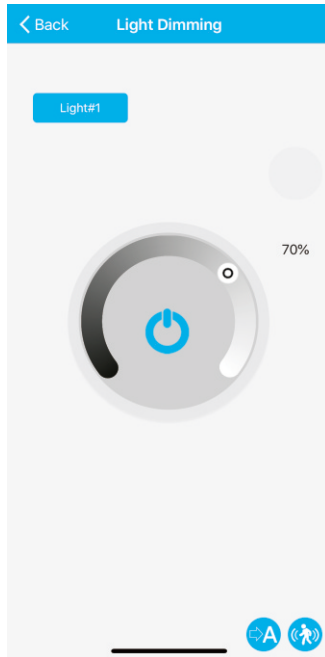
Project Name: _____

Catalog #: _____

Fixture Schedule: _____

Notes: _____

APP Setting



ON/OFF/Dimming:

Tap this button to turn on/off the fixture. Use the slider for dimming.



Auto-brightness:

To adjust auto daylight harvesting, use the slider to set your preferred brightness as it is accompanied by ambient light, then tap this button to save.



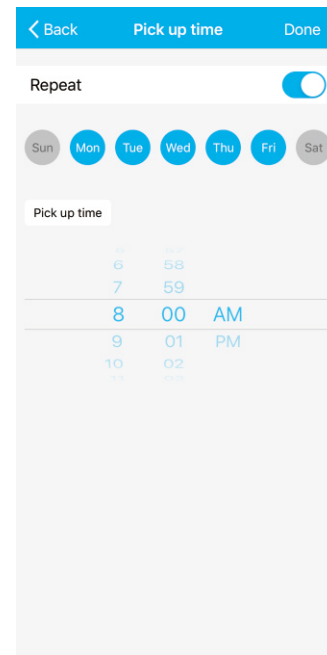
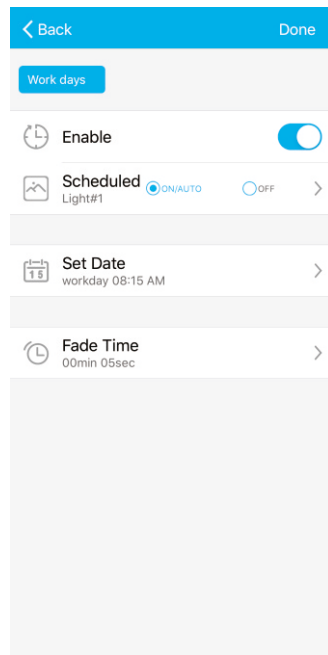
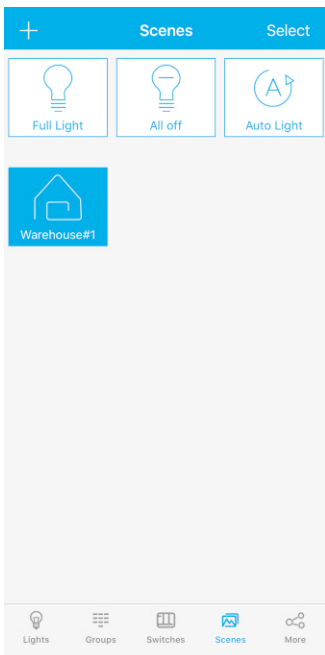
Sensor Setting:

Tap this button to enter sensor setting.

1st time delay: the time that the fixtures will hold at current output after all motion has stopped.

Dim level: after the 1st time delay has passed, the fixtures will dim down to this lower percentage output.

2nd time delay: the time that the fixtures will hold at the lower output before shutting off.



Scenes:

This function allows you to create different scenes or lighting configurations based on specific needs, such as accommodating presentations or video displays.

Timer:

Timers can be set to operate individual fixtures, groups or scenes. Each timer can hold one action, such as powering on or powering off.



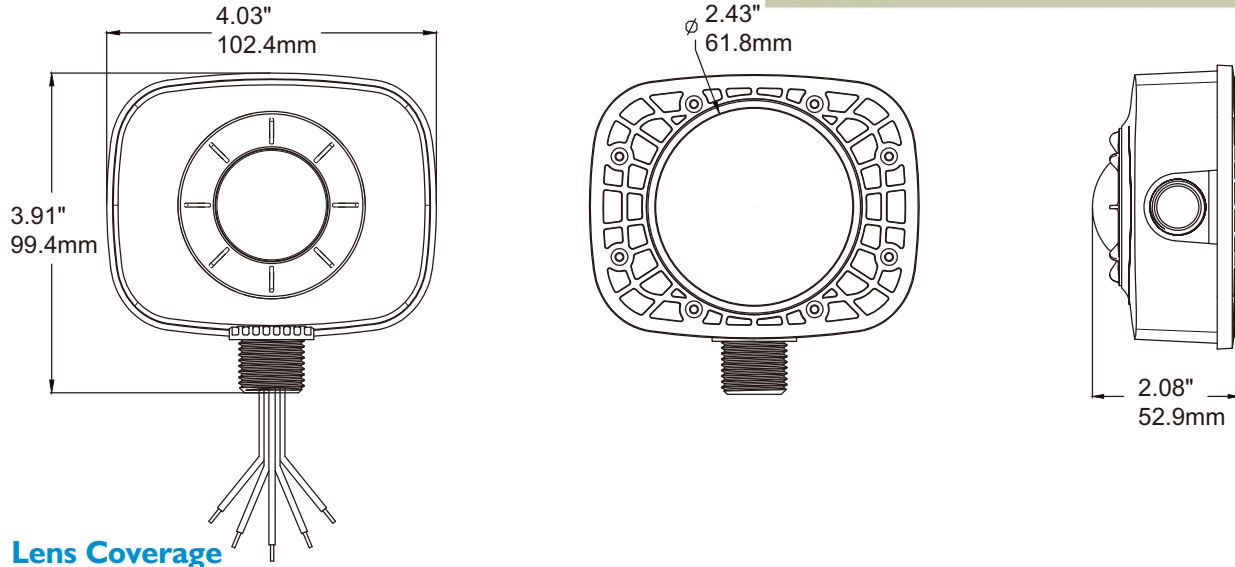
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Project Name:

Catalog #:

Fixture Schedule:

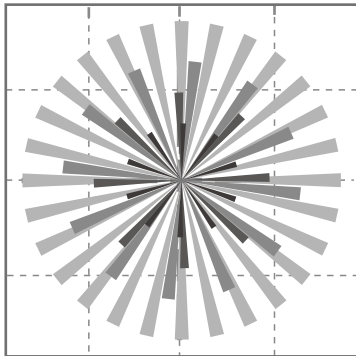
Notes:



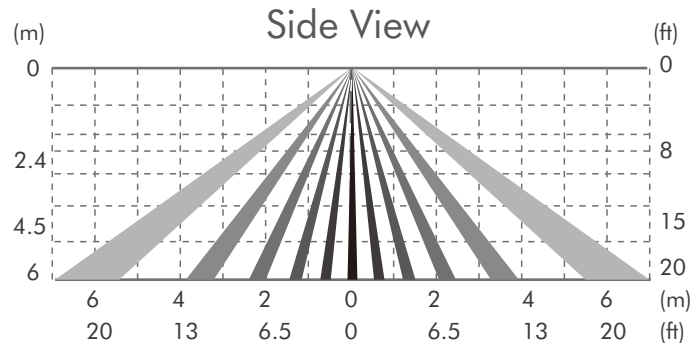
Lens Coverage

LENS EFSL1 2X Standard

Top View

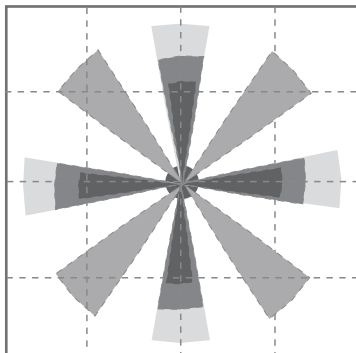


Mounting Height	m (ft)	2.4 (8)	3.0 (10)	4.5 (15)	6.0 (20)
Max. Coverage Diameter	m (ft)	4.8 (16)	6.0 (20)	9.0 (30)	12.0 (40)



LENS EFSL2 1X High Bay

Top View



Mounting Height	m (ft)	9.0 (30)	11.0 (36)	13.0 (43)	15.0 (49)
Max. Coverage Diameter	m (ft)	9.0 (30)	11.0 (36)	13.0 (43)	15.0 (49)

