

L03

UNDERWATER: FRESHWATER

In-grade | Submersed under water up to 12" (0.3m) depth.

- Underwater Certified



Ordering Information

Clear Form

Date :

Quantity :

Project :

Note :

Type :

Specifications

Luminaire | Example Code: L03-2-W30H-N-C-[ ]-0-MK1-B-15-S6

Product	Version	CCT & CRI <sup>1</sup>	Beam Angle <sup>2</sup>	Lens	Accessories <sup>4</sup> (optional)	Internal Angle Bracket <sup>5</sup>	Mounting Kit (optional) <sup>6</sup>	Flange & Back Box <sup>7</sup>	Lead Length <sup>8</sup>	Trim Finish <sup>9</sup>
L03										
	1 1W	W22S 2200K 80+	E elliptical 7°+36°	C clear	LM louver, matte anodized	0 no angle	MK1 vertical surface	B back box	15 15' (4572mm)	<b>Stainless Steel Finishes:</b> <b>S6</b> stainless steel 316 <b>PS6</b> polished stainless steel <b>BT0</b> black stainless steel  <b>Other Materials:</b> <b>ABZ</b> antique bronze
	2 2W	W27H 2700K 90+	SS super spot 8°	F frosted	LB louver, black anodized	20 20° angle		NB no back box	X custom	
		W30H 3000K 90+	S spot 12°		HM hex louver, matte anodized	X custom				
		W35H 3500K 90+	N narrow flood 30°		HB hex louver, black anodized					
		W41H 4100K 90+	W wide flood 120°		AB angled louver, black anodized					
					SB straight louver, black anodized					
					QB square louver, black anodized					
					RB ring louver, black anodized					

System Components (Ordered Separately)

Remote Driver :

\* Consult MP Lighting Website or Factory.

Order Guide Important Notes

Specification

- Refer to pg.2 - for Light Quality and Colour Consistency.
- See Light Distribution section for illustration of different combinations of beam angles and angle bracket. Elliptical and Super Spot beam angles are only available with clear lens, and are not available with louver accessories or angle brackets.
- Louvers will be below the lens. Only available when there is no Internal Angle Bracket.
- Internal angle bracket is factory set, and cannot be field adjusted. 5° increments to maximum of 20° without accessories.

- Mounting kit is ordered separately. Please consult factory.
- For components included, refer to Luminaire Construction section. For custom box and flange options, consult MP factory.
- Custom lengths available by 1" increments.
- Different finish options are only applicable to trim ring and not for LED module housing. Refer to Appendix or MP Lighting website for complete look of luminaire with different trim finish options.

Warranty Notes & Disclaimer

Malfunction and damage to product due to incompatible dimming system or misuse will not be covered under warranty. Consult MP Lighting for recommended drivers. If the fixture has an option to be installed with a dimming control system, consult a dimming system manufacturer with minimum load before installing. MP Lighting reserves the right, at its sole discretion, at any time and without notice, to make design changes to any of our products. Consult MP Lighting website for most updated documentation.

# L03

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### Performance

Wattage	Forward Current	Power Consumption Budget per fixture (including driver)	LED Output (Source)	Fixture Output (Delivered)
1W	350mA	1.3W	110 lm	27-63 lm
2W	700mA	2.6W	220 lm	49-119 lm

### Application

Environment	Dry / Damp / Wet/ Underwater Location approved. IP 68.
Mounting	<b>Recessed:</b> Designed to be cast into earth, gravel, or concrete for submersed applications. <b>MK1 mounting kit (optional):</b> Recommended for easy installation on vertical surfaces (e.g. stair risers, walls), and downward-facing surfaces (e.g. ceilings, soffits). See "Mounting Options & Dimensions, " or visit <a href="#">MK1</a>

### Electrical

Power Supplies	Remote LED drivers (120-277V AC input, <b>constant current output</b> ): Fixtures to be wired in series.
Control	<b>On/off control</b> <b>Dimming:</b> ELV or 0-10V dimming with appropriate drivers <b>Other options (consult factory):</b> TRIAC/MLV, DMX, DALI, Casambi, Power over Ethernet

### Luminaire Construction

LED Light Source	<b>W22S</b> = CCT: 2200K, CRI (Ra): 80+, Colour Consistency: 3SDCM <b>W27H</b> = CCT: 2700K, CRI (Ra): 90+, Colour Consistency: 2SDCM <b>W30H</b> = CCT: 3000K, CRI (Ra): 90+, Colour Consistency: 2SDCM <b>W35H</b> = CCT: 3500K, CRI (Ra): 90+, Colour Consistency: 2SDCM <b>W41H</b> = CCT: 4100K, CRI (Ra): 90+, Colour Consistency: 3SDCM
Weight	1.8 lbs (0.816 kg). Typical stainless steel 316 Insert & Back Box only.
Material	<b>Fixture:</b> Stainless steel (316) with tempered glass.
Supplied with	<b>Standard installation housing:</b> Comes with a 304 stainless steel square back box, a brass/stainless steel 316 flange, a 15' (4.57m) wire lead, an integral leveling device, a plastic cap, gel filled wire nuts, and silicone grease.
Warranty & LED Life	5 years limited warranty Estimated useful life of LED is 50,000 hours.

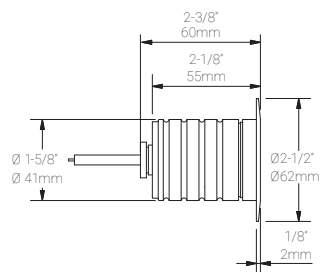
### Ordered Separately

System Components	<b>Power supplies:</b> remote power supply Please consult factory or visit <a href="#">Recommended Drivers</a> for available driver options. <b>Mounting kits:</b> MK1
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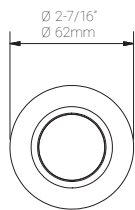
## Mounting Options & Dimensions

### LED Insert Dimensions

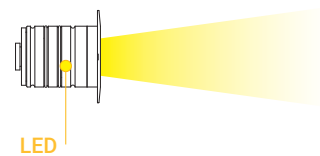
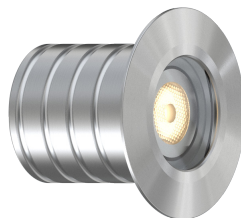
Fixture



Top View

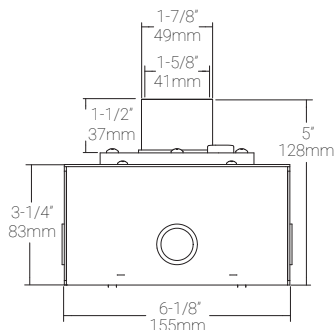


3D View

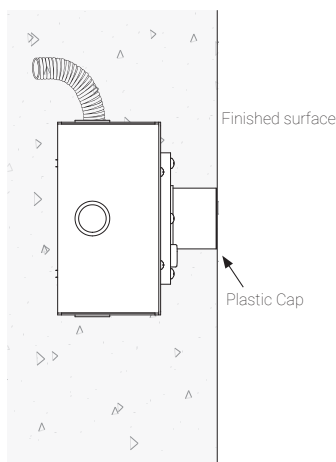


### Concrete Installation (shown with MP Lighting Back Box | Order Code: **EBX-SQR1-CSS6**)

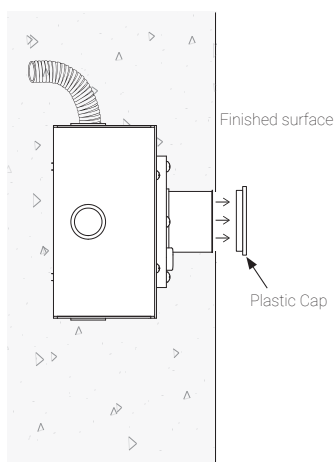
Box with Standard Flange



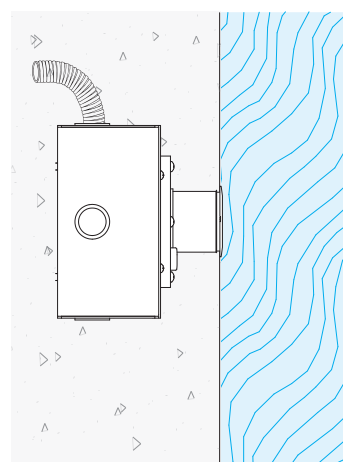
Box with Short Flange:  
During Concrete Installation



Box with Short Flange:  
Complete Concrete Installation

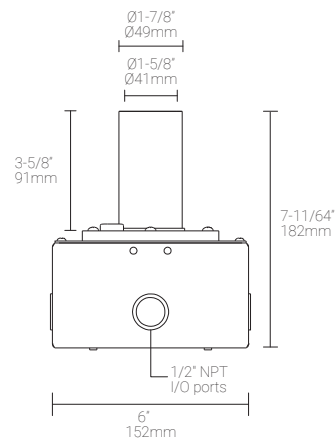


Box with Short Flange :  
Complete Concrete Installation

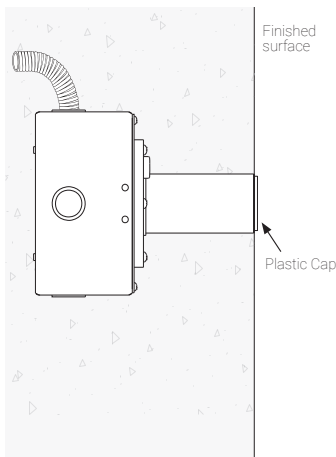


### Concrete Installation (shown with MP Lighting Back Box | Order Code: **EBX-SQR1-CPS6**)

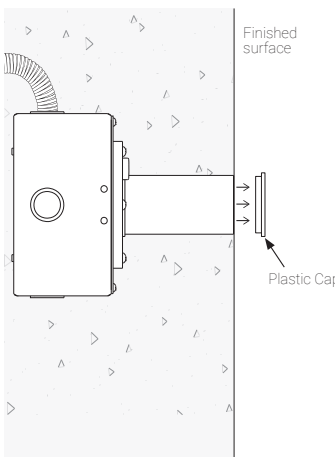
Box with Tall Flange



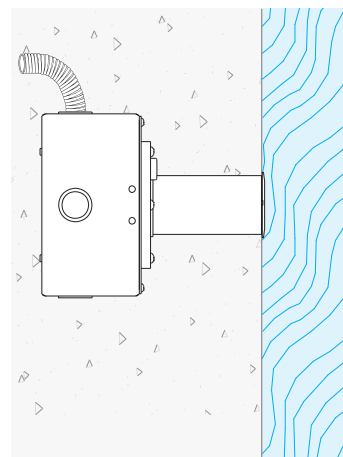
Box with Tall Flange:  
During Concrete Installation



Box with Tall Flange:  
Complete Concrete Installation



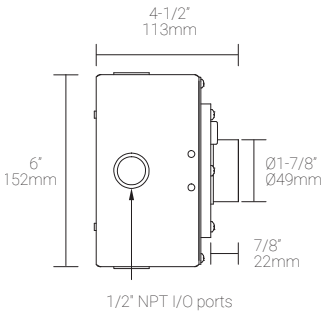
Box with Tall Flange :  
Complete Concrete Installation



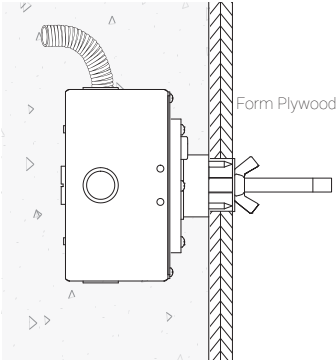
Mounting Kits

MK1: Ceiling, Wall, and Stair Riser Installation (shown with MP Lighting Back Box)

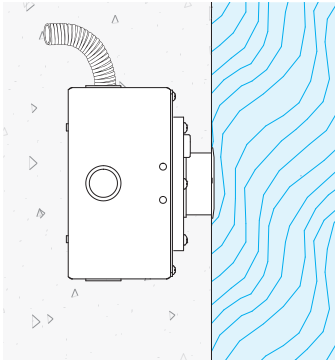
Box with Standard Flange



Box with Standard Flange & MK1:  
During Installation



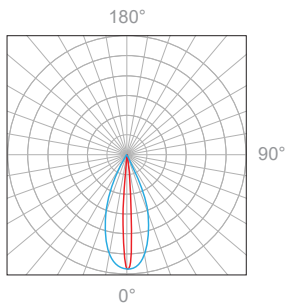
Box with Standard Flange:  
Complete Installation



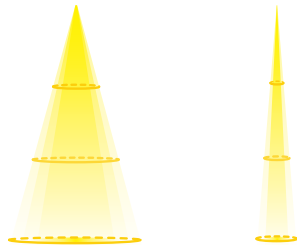
6" (152mm) threaded rod is supplied. Thread size: 3/8"-16

1W, 3000K, 90+ CRI

### Polar Candela Distribution



### Beam Width: 7° + 36°



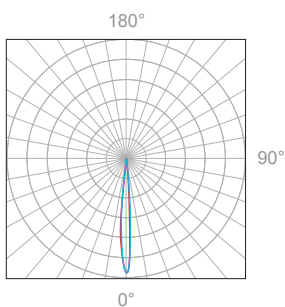
### Illuminance at a Distance

Distance		Center Beam fc	Beam Width			
1.5ft	0.46m	92.9fc	1.0ft	0.30m	0.2ft	0.06m
3.0ft	0.91m	23.2fc	2.0ft	0.61m	0.4ft	0.12m
4.5ft	1.37m	10.3fc	2.9ft	0.88m	0.5ft	0.15m
6.0ft	1.83m	5.81fc	3.9ft	1.18m	0.7ft	0.21m
7.5ft	2.29m	3.72fc	4.9ft	1.49m	0.9ft	0.27m
9.0ft	2.74m	2.58fc	5.9ft	1.79m	1.0ft	0.30m

Delivered Lumen: 27lm

■ Vertical Beam Spread: 36.1°  
■ Horizontal Beam Spread: 6.7°

### Polar Candela Distribution



### Beam Width: 8°



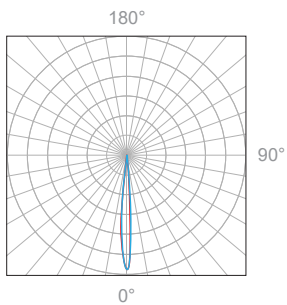
### Illuminance at a Distance

Distance		Center Beam fc	Beam Width			
1.5ft	0.46m	537fc	0.2ft	0.06m	0.2ft	0.06m
3.0ft	0.91m	134fc	0.4ft	0.12m	0.5ft	0.15m
4.5ft	1.37m	59.6fc	0.6ft	0.18m	0.7ft	0.21m
6.0ft	1.83m	33.5fc	0.8ft	0.24m	0.9ft	0.27m
7.5ft	2.29m	21.5fc	1.1ft	0.33m	1.2ft	0.36m
9.0ft	2.74m	14.9fc	1.3ft	0.39m	1.4ft	0.42m

Delivered Lumen: 46.2lm

■ Vertical Beam Spread: 8.1°  
■ Horizontal Beam Spread: 8.8°

### Polar Candela Distribution



### Beam Width: 12°



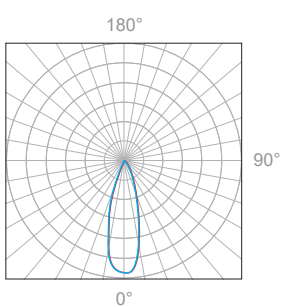
### Illuminance at a Distance

Distance		Center Beam fc	Beam Width			
1.5ft	0.46m	424fc	0.3ft	0.09m	0.3ft	0.09m
3.0ft	0.91m	140fc	0.6ft	0.18m	0.6ft	0.18m
4.5ft	1.37m	62fc	0.9ft	0.27m	0.9ft	0.27m
6.0ft	1.83m	35fc	1.3ft	0.39m	1.3ft	0.39m
7.5ft	2.29m	23fc	1.6ft	0.48m	1.6ft	0.48m
9.0ft	2.74m	16fc	1.9ft	0.58m	1.9ft	0.58m

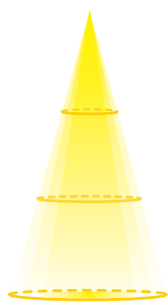
Delivered Lumen: 63.4lm

■ Vertical Beam Spread: 12°  
■ Horizontal Beam Spread: 12°

### Polar Candela Distribution



### Beam Width: 30°



### Illuminance at a Distance

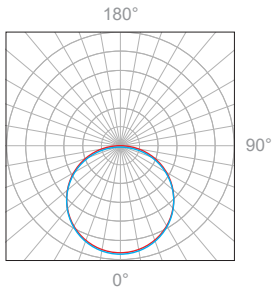
Distance		Center Beam fc	Beam Width			
1.5ft	0.46m	82.3fc	0.8ft	0.24m	0.8ft	0.24m
3.0ft	0.91m	20.6fc	1.6ft	0.49m	1.6ft	0.49m
4.5ft	1.37m	9.14fc	2.4ft	0.73m	2.4ft	0.73m
6.0ft	1.83m	5.14fc	3.2ft	0.98m	3.2ft	0.98m
7.5ft	2.29m	3.29fc	4.0ft	1.22m	4.0ft	1.22m
9.0ft	2.74m	2.29fc	4.7ft	1.43m	4.7ft	1.43m

Delivered Lumen: 65.8lm

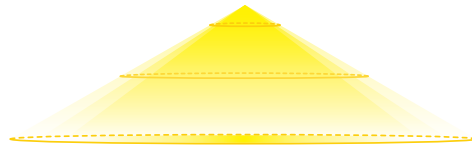
■ Vertical Beam Spread: 29.5°  
■ Horizontal Beam Spread: 29.5°

## 1W, 3000K, 90+ CRI

### Polar Candela Distribution



### Beam Width: 120°



### Illuminance at a Distance

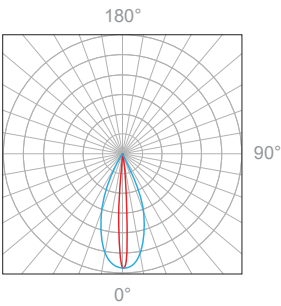
Distance		Center Beam fc	Beam Width			
1.5ft	0.46m	11.3fc	4.1ft	1.25m	4.1ft	1.25m
3.0ft	0.91m	2.82fc	8.1ft	2.46m	8.1ft	2.46m
4.5ft	1.37m	1.26fc	12.2ft	3.71m	12.2ft	3.71m
6.0ft	1.83m	0.71fc	16.3ft	4.96m	16.3ft	4.96m
7.5ft	2.29m	0.45fc	20.3ft	6.18m	20.3ft	6.18m
9.0ft	2.74m	0.31fc	24.4ft	7.43m	24.4ft	7.43m

Delivered Lumen: 63lm

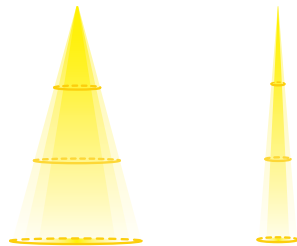
■ Vertical Beam Spread : 107.1°  
■ Horizontal Beam Spread : 107.1°

## 2W, 3000K, 90+ CRI

### Polar Candela Distribution



### Beam Width: 7° + 36°



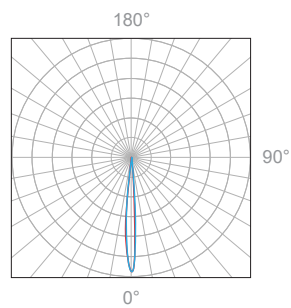
### Illuminance at a Distance

Distance		Center Beam fc	Beam Width			
1.5ft	0.46m	165fc	1.0ft	0.30m	0.2ft	0.06m
3.0ft	0.91m	41.3fc	2.0ft	0.61m	0.4ft	0.12m
4.5ft	1.37m	18.3fc	2.9ft	0.88m	0.5ft	0.15m
6.0ft	1.83m	10.3fc	3.9ft	1.18m	0.7ft	0.21m
7.5ft	2.29m	6.60fc	4.9ft	1.49m	0.9ft	0.27m
9.0ft	2.74m	4.59fc	5.9ft	1.79m	1.1ft	0.33m

Delivered Lumen: 49lm

■ Vertical Beam Spread: 36.3°  
■ Horizontal Beam Spread: 6.8°

### Polar Candela Distribution



### Beam Width: 8°



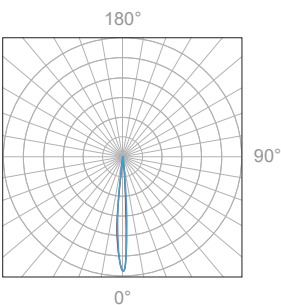
### Illuminance at a Distance

Distance		Center Beam fc	Beam Width			
1.5ft	0.46m	1,015fc	0.2ft	0.06m	0.2ft	0.06m
3.0ft	0.91m	254fc	0.4ft	0.12m	0.4ft	0.12m
4.5ft	1.37m	113fc	0.7ft	0.21m	0.6ft	0.18m
6.0ft	1.83m	63.4fc	0.9ft	0.27m	0.9ft	0.27m
7.5ft	2.29m	40.6fc	1.1ft	0.33m	1.1ft	0.33m
9.0ft	2.74m	28.2fc	1.3ft	0.39m	1.3ft	0.39m

Delivered Lumen: 61.3lm

■ Vertical Beam Spread: 8.5°  
■ Horizontal Beam Spread: 8.2°

### Polar Candela Distribution



### Beam Width: 12°



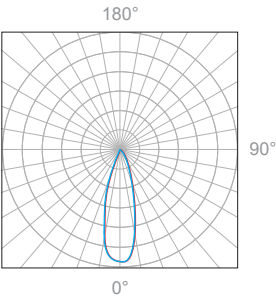
### Illuminance at a Distance

Distance		Center Beam fc	Beam Width			
1.5ft	0.46m	774fc	0.3ft	0.09m	0.3ft	0.09m
3.0ft	0.91m	194fc	0.6ft	0.18m	0.6ft	0.18m
4.5ft	1.37m	86fc	0.9ft	0.27m	0.9ft	0.27m
6.0ft	1.83m	48.4fc	1.3ft	0.39m	1.3ft	0.39m
7.5ft	2.29m	31fc	1.6ft	0.48m	1.6ft	0.48m
9.0ft	2.74m	21.5fc	1.9ft	0.58m	1.9ft	0.58m

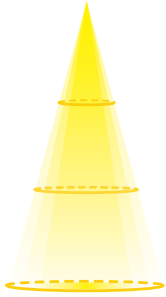
Delivered Lumen: 116.8lm

■ Vertical Beam Spread: 12°  
■ Horizontal Beam Spread: 12°

Polar Candela Distribution



Beam Width: 30°

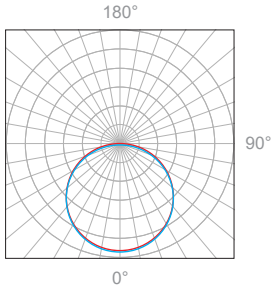


Illuminance at a Distance

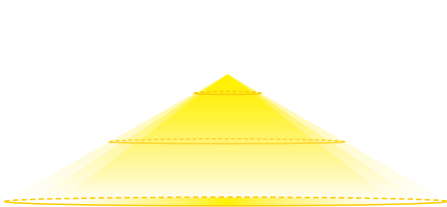
Distance		Center Beam fc	Beam Width			
1.5ft	0.46m	152fc	0.8ft	0.24m	0.8ft	0.24m
3.0ft	0.91m	38fc	1.6ft	0.48m	1.6ft	0.48m
4.5ft	1.37m	16.9fc	2.4ft	0.73m	2.4ft	0.73m
6.0ft	1.83m	9.49fc	3.2ft	0.97m	3.2ft	0.97m
7.5ft	2.29m	6.07fc	4.0ft	1.22m	4.0ft	1.22m
9.0ft	2.74m	4.22fc	4.7ft	1.43m	4.7ft	1.43m

Delivered Lumen: 121lm  
■ Vertical Beam Spread: 29.5°  
■ Horizontal Beam Spread: 29.5°

Polar Candela Distribution



Beam Width: 120°



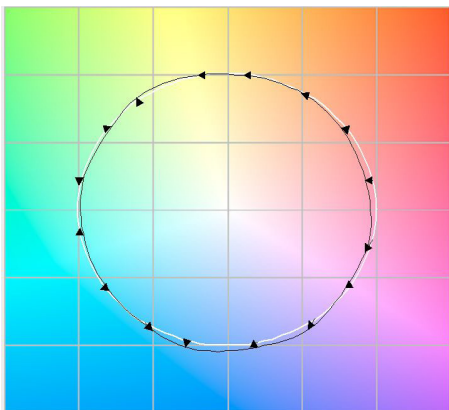
Illuminance at a Distance

Distance		Center Beam fc	Beam Width			
1.5ft	0.46m	21.3fc	4.1ft	1.25m	4.1ft	1.25m
3.0ft	0.91m	5.33fc	8.1ft	2.46m	8.1ft	2.46m
4.5ft	1.37m	2.37fc	12.2ft	3.71m	12.2ft	3.71m
6.0ft	1.83m	1.33fc	16.3ft	4.96m	16.3ft	4.96m
7.5ft	2.29m	0.85fc	20.3ft	6.18m	20.3ft	6.18m
9.0ft	2.74m	0.59fc	24.4ft	7.43m	24.4ft	7.43m

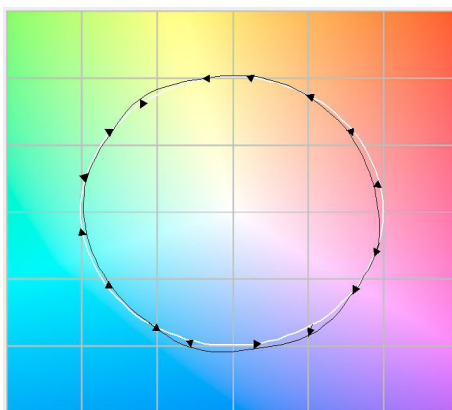
Delivered Lumen: 119lm  
■ Vertical Beam Spread : 107.1°  
■ Horizontal Beam Spread : 107.1°

## TM30 Report

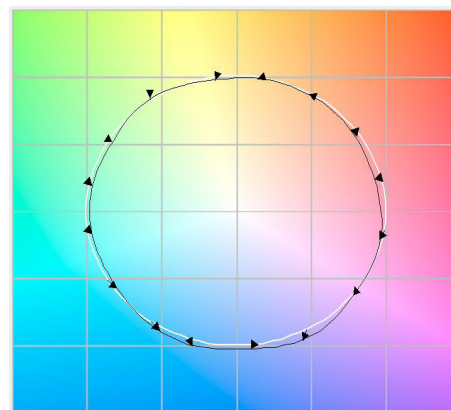
2700K, 90+CRI



3000K, 90+CRI

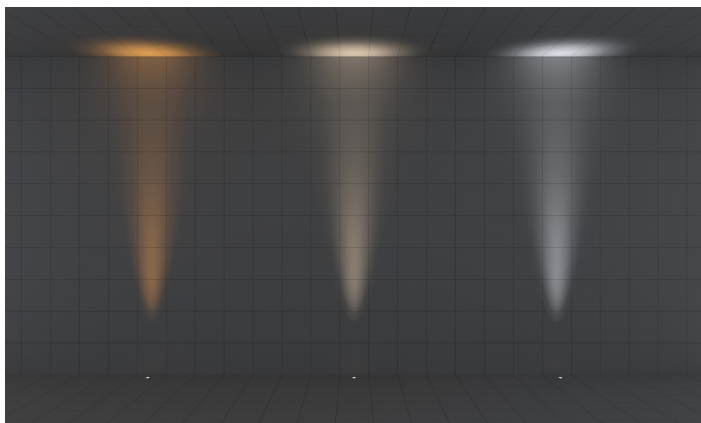


3500K, 90+CRI

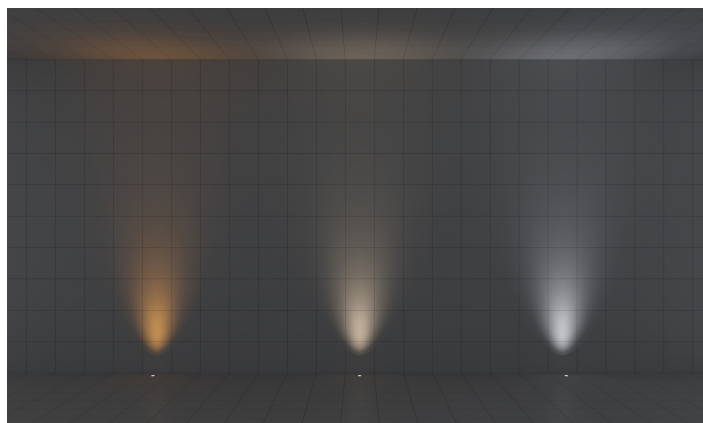


## Colour Temperature Comparison | 2200K, 2700K, 3000K

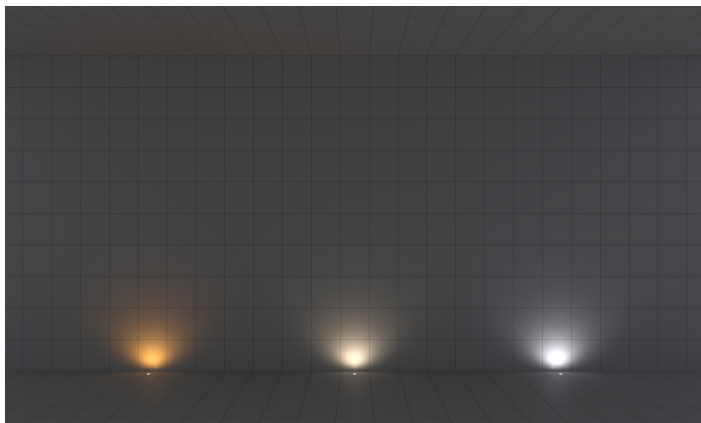
12° | 6" (152mm) Gap | 10ft Wall



30° | 6" (152mm) Gap | 10ft Wall



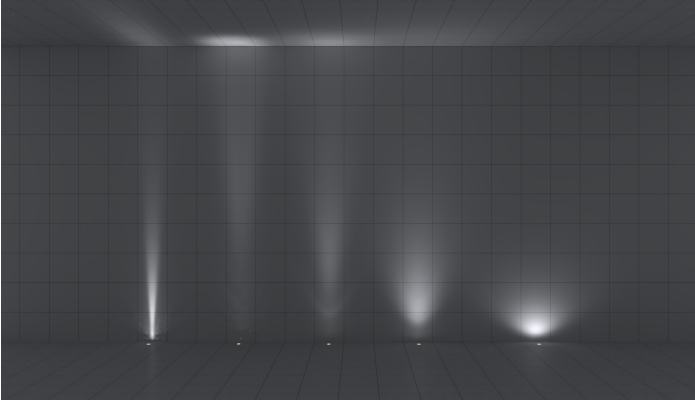
120° | 6" (152mm) Gap | 10ft Wall





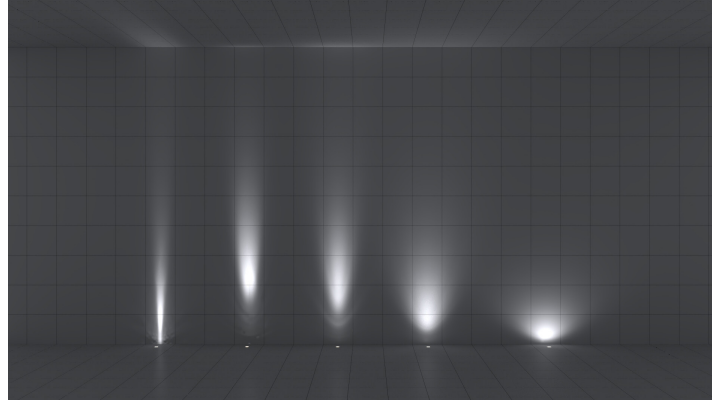
Light Distribution | 10ft Wall | Fixtures installed 6" (152mm) away from the wall

L03 | 1W | 0° angle bracket | 10ft wall | Clear Lens | 3000K



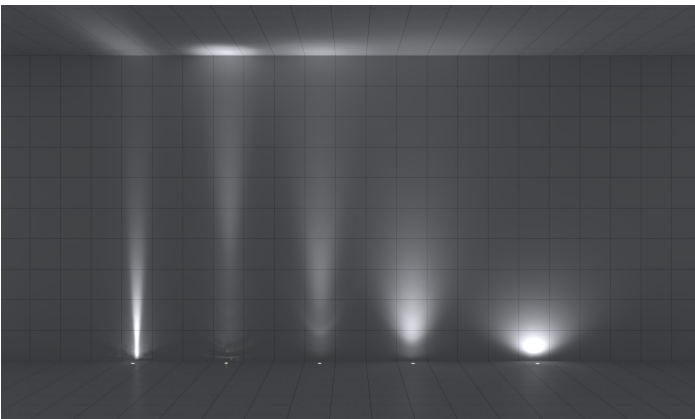
**From left to right:**  
**E** elliptical 7°+ 36°  
**SS** super spot 8°  
**S** spot 12°  
**N** narrow flood 30°  
**W** wide flood 120°

L03 | 1W | 10° angle bracket | 10ft wall | Clear Lens | 3000K



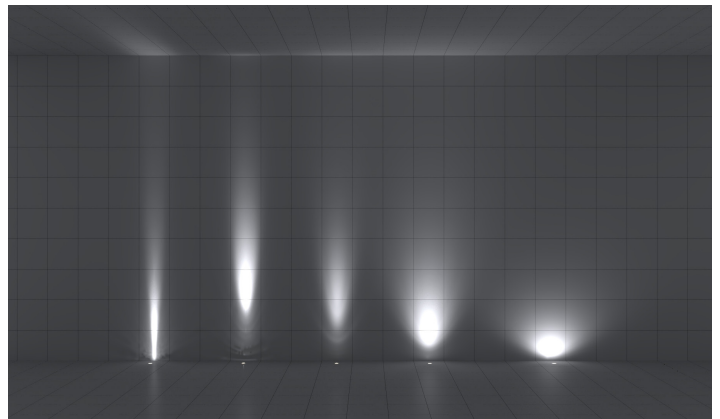
**From left to right:**  
**E** elliptical 7°+ 36°  
**SS** super spot 8°  
**S** spot 12°  
**N** narrow flood 30°  
**W** wide flood 120°

L03 | 2W | 0° angle bracket | 10ft wall | Clear Lens | 3000K



**From left to right:**  
**E** elliptical 7°+ 36°  
**SS** super spot 8°  
**S** spot 12°  
**N** narrow flood 30°  
**W** wide flood 120°

L03 | 2W | 10° angle bracket | 10ft wall | Clear Lens | 3000K

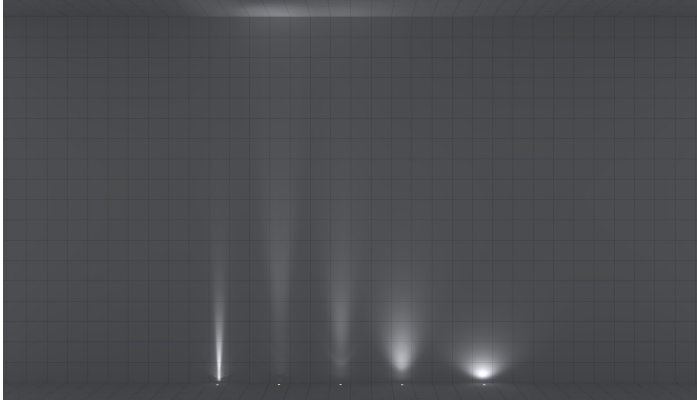


**From left to right:**  
**E** elliptical 7°+ 36°  
**SS** super spot 8°  
**S** spot 12°  
**N** narrow flood 30°  
**W** wide flood 120°

\* Images will appear darker when printed.

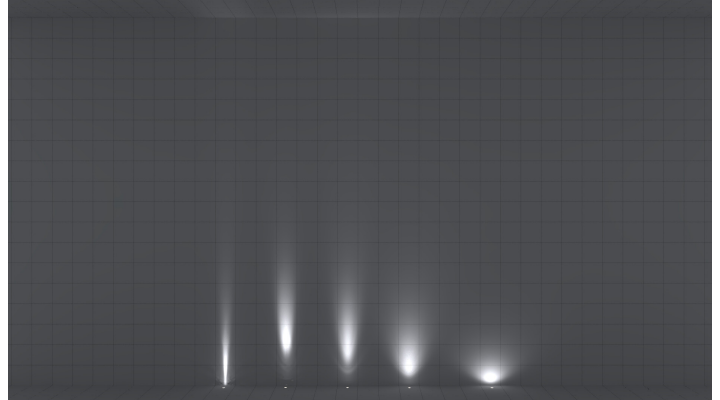
Light Distribution | 18ft Wall | Fixtures installed 6" (152mm) away from the wall

L03 | 1W | 0° angle bracket | 18ft wall | Clear Lens | 3000K



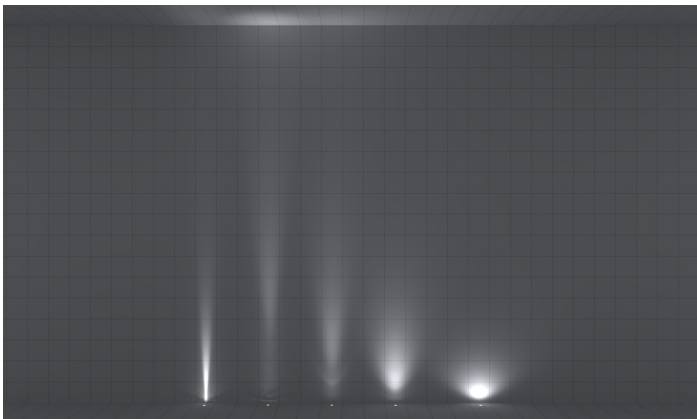
**From left to right:**  
**E** elliptical 7°+ 36°  
**SS** super spot 8°  
**S** spot 12°  
**N** narrow flood 30°  
**W** wide flood 120°

L03 | 1W | 10° angle bracket | 18ft wall | Clear Lens | 3000K



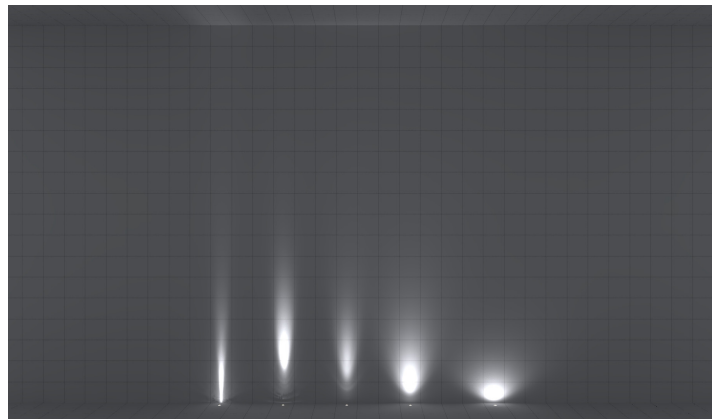
**From left to right:**  
**E** elliptical 7°+ 36°  
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L03 | 2W | 0° angle bracket | 18ft wall | Clear Lens | 3000K



**From left to right:**  
**E** elliptical 7°+ 36°  
**SS** super spot 8°  
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**N** narrow flood 30°  
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L03 | 2W | 10° angle bracket | 18ft wall | Clear Lens | 3000K



**From left to right:**  
**E** elliptical 7°+ 36°  
**SS** super spot 8°  
**S** spot 12°  
**N** narrow flood 30°  
**W** wide flood 120°

\* Images will appear darker when printed.

## Appendix

### Stainless Finishes



**S6** stainless steel 316



**PS6** polished stainless steel



**BT0** black stainless steel

### Other Materials



**ABZ** antique bronze

### Accessories



**LM** louver, matte clear anodized



**LB** louver, black anodized



**HM** hex louver, matte clear anodized



**HB** hex louver, black anodized



**AB** angled louver, black anodized



**SB** straight louver, black anodized



**QB** square louver, black anodized



**RB** ring louver, black anodized

### Lens Options



**C** clear lens

**F** frosted