U01

UNDERWATER: CHLORINATED WATER, FRESH WATER & SEA WATER
In-grade | Submersed under water up to 10' (3m) depth.

- Underwater/Swimming Pool/Natatorium Certified

CSA - CLASS 3425 09 -Submersible
CSA - CLASS 3425 89 -Submersible - Certified to US Standards

IP68

Ordering Information

Clear Form

Date : _____

Project : _____

Type : _____

Quantity : _____

Note : _____

Specifications

Luminaire | Example Code: U01-2-W30H-N-C-[ ]-0-MK1-B-15-S6

Product	Version	CCT & CRI [1]	Beam Angle [2]	Lens	Accessories [3] (optional)	Internal Angle Bracket [4]	Mounting Kit [5] (optional)	Flange & Back Box	Lead Length [6]	Trim Finish [7]
U01										
	1 1W **2** 2W	**W22H** 2200K 90+ **W27H** 2700K 90+ **W30H** 3000K 90+ **W35H** 3500K 90+	**S** spot 12° **N** narrow flood 30° **F** flood 45° **W** wide flood 120°	**C** clear **F** frosted	**LM** louver, matte anodized **LB** louver, black anodized **HM** hex louver, matte 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	**0** no angle **15** 15° angle **X** custom	**MK1** vertical surface	**B** back box **F** flange only	**15** 15' (4572mm) **X** custom	**Stainless Steel Finishes:** **S6** stainless steel 316L

System Components (Ordered Separately)

Pool-certified power supply : _____

* Consult MP Lighting Website or Factory.

Order Guide Important Notes

Specification

1. *Refer to pg.2 - for Colour Consistency details.*
2. *See Light Distribution section for illustration of different combinations of beam angles and angle bracket.*
3. *Louvers will be below the lens. Only available when there is no Internal Angle Bracket.*
4. *Internal angle bracket is factory set, and cannot be field adjusted. 5° increments to maximum of 20° without accessories.*
5. *Mounting kit is ordered separately. Please consult factory.*
6. *Custom lead lengths available by 1' increments.*
7. *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.

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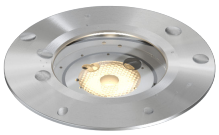
IP68



Performance

Wattage	Supply Voltage	Power Consumption Budget per fixture (including driver)	LED Output (Source)	Fixture Output (Delivered)
1W	12V	1.3W	110 lm	59.2-72.7 lm
2W	12V	2.6W	220 lm	120.2-144.6 lm

Application

Environment	Dry / Damp / Wet / Underwater Location approved. IP 68.
Drive Over Rating	9,700 lbs (4,400 kg).
Mounting	**Recessed:** Designed to be placed into earth, gravel, or cast into concrete for submersed applications. **MK1 mounting kit (optional):** 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 MK1.

Electrical

Electrical	Compatible with remote pool-certified power supplies.
Control	On/off control.

Luminaire Construction

LED Light Source	**W22H =** CCT: 2200K, CRI (Ra): 90+, Colour Consistency: 3SDCM **W27H =** CCT: 2700K, CRI (Ra): 90+, Colour Consistency: 2SDCM **W30H =** CCT: 3000K, CRI (Ra): 90+, Colour Consistency: 2SDCM **W35H =** CCT: 3500K, CRI (Ra): 90+, Colour Consistency: 2SDCM
Weight	1.8 lbs (0.816 kg). Typical stainless steel 316L Insert & Back Box only.
Material	**Fixture:** Stainless steel (316L) with tempered glass.
Supplied with	**Standard installation housing:** Comes with a 304 stainless steel square back box, an brass/stainless steel 316L flange, an integral leveling device, a plastic cap, gel filled wire nuts, and silicone grease. **Wire lead:** 15' (4572mm) or custom length.
Warranty & LED Life	3 years limited warranty.

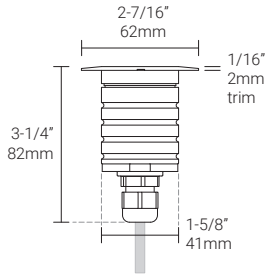
Ordered Separately

System Components	**Power supplies:** remote power supply. **Mounting kits:** MK1.

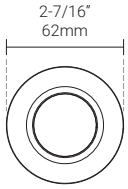
Mounting Options & Dimensions

LED Insert Dimensions

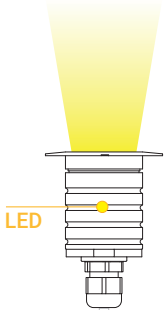
Fixture



Top View

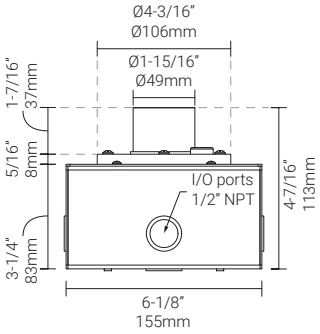


3D View

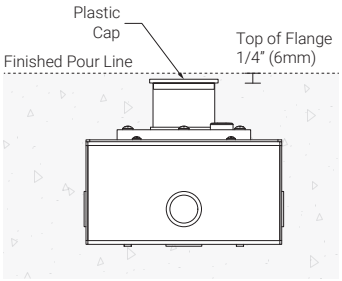


Concrete Installation (shown with MP Lighting Back Box | Order Code: EBX-SQR1-CSS6**)**

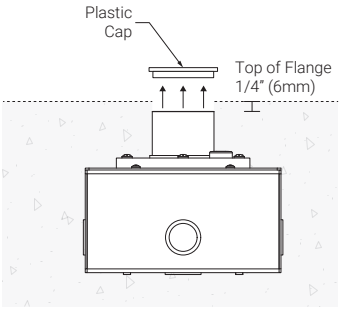
Box with Standard Flange



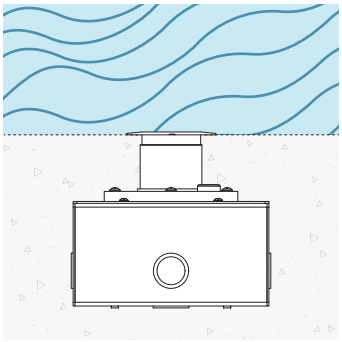
Box with Standard Flange:
During Concrete Installation



Box with Standard Flange:
Complete Concrete Installation

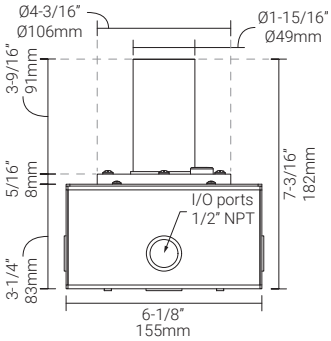


Box with Standard Flange :
Complete Concrete Installation

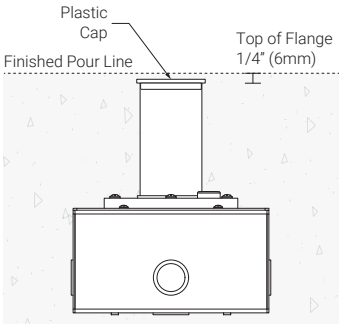


Concrete Installation (shown with MP Lighting Back Box | Order Code: EBX-SQR1-CPS6**)**

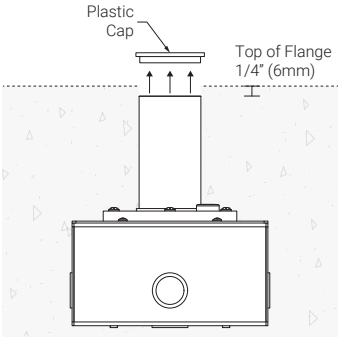
Box with Paving Stone Flange



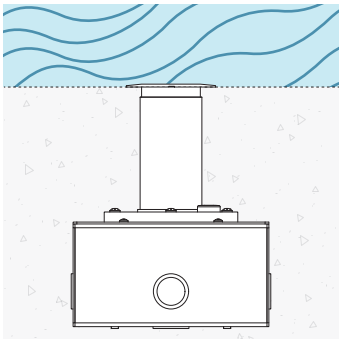
Box with Paving Stone Flange:
During Concrete Installation



Box with Paving Stone Flange:
Complete Concrete Installation



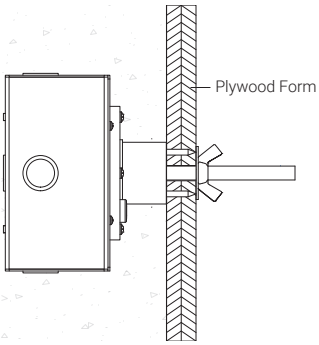
Box with Paving Stone Flange:
Complete Concrete Installation



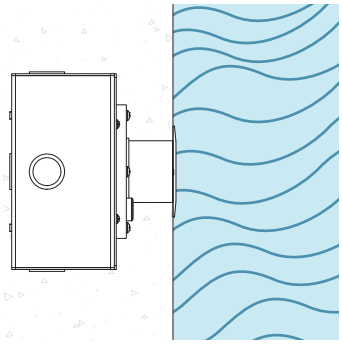
Mounting Options & Dimensions | MK1: Wall and Stair Riser Installation

Shown with MP Lighting Back Box | Order Code: EBX-SQR1-CSS6

Box with Standard Flange & MK1: During Installation



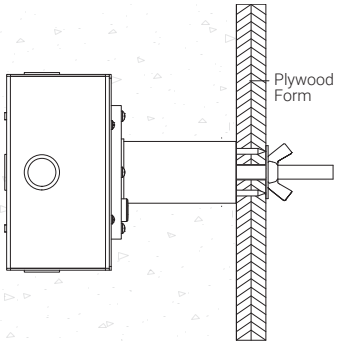
Box with Standard Flange & MK1: Complete Installation



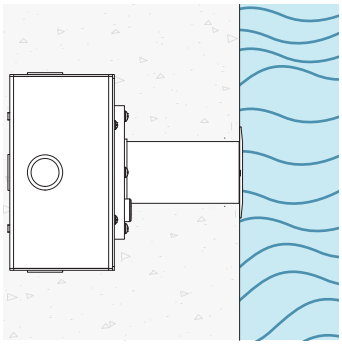
6" (152mm) threaded rod is supplied. Thread size: 3/8"-16

Shown with MP Lighting Back Box | Order Code: EBX-SQR1-CPS6

Box with Paving Stone Flange & MK1: During Installation



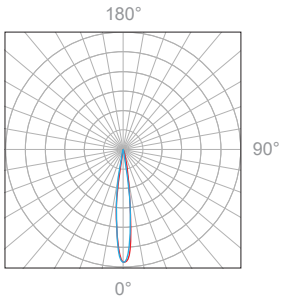
Box with Paving Stone Flange & MK1: Complete Installation



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

1W, 3000K, 90+ CRI

Polar Candela Distribution



Beam Width: 12°

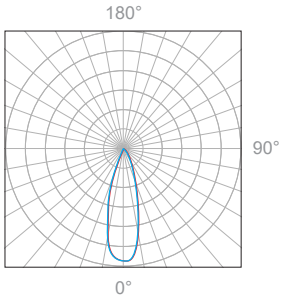
Illuminance at a Distance

Distance		Center Beam fc	Beam Width			
1.5ft	0.46m	135fc	0.6ft	0.18m	0.7ft	0.21m
3.0ft	0.91m	33.8fc	1.3ft	0.39m	1.3ft	0.39m
4.5ft	1.37m	15.0fc	1.9ft	0.58m	2.0ft	0.61m
6.0ft	1.83m	8.44fc	2.6ft	0.79m	2.6ft	0.79m
7.5ft	2.29m	5.40fc	3.2ft	0.97m	3.3ft	1.00m
9.0ft	2.74m	3.75fc	3.8ft	1.15m	3.9ft	1.18m

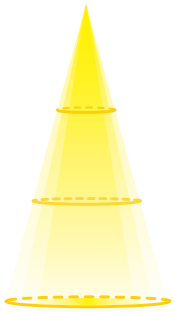
Delivered Lumen: 72.7 lm
Vertical Beam Spread: 24.0°
Horizontal Beam Spread: 24.5°

Tested on 07/10/2024

Polar Candela Distribution



Beam Width: 30°



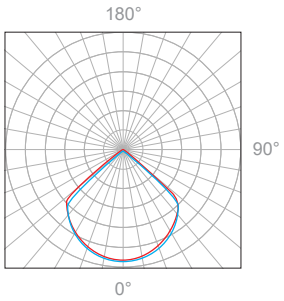
Illuminance at a Distance

Distance		Center Beam fc	Beam Width			
1.5ft	0.46m	69.3fc	0.8ft	0.24m	0.8ft	0.24m
3.0ft	0.91m	17.3fc	1.6ft	0.49m	1.6ft	0.49m
4.5ft	1.37m	7.70fc	2.4ft	0.73m	2.5ft	0.76m
6.0ft	1.83m	4.33fc	3.2ft	0.98m	3.3ft	1.00m
7.5ft	2.29m	2.77fc	4.1ft	1.25m	4.1ft	1.25m
9.0ft	2.74m	1.93fc	4.9ft	1.52m	4.9ft	1.52m

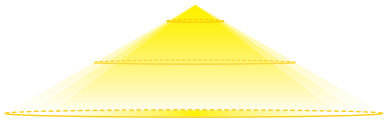
Delivered Lumen: 59.2 lm
Vertical Beam Spread: 30.3°
Horizontal Beam Spread: 30.5°

Tested on 07/10/2024

Polar Candela Distribution



Beam Width: 120°



Illuminance at a Distance

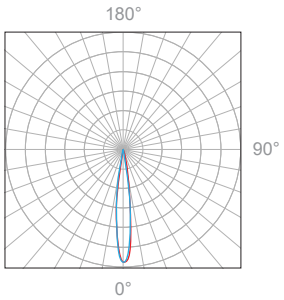
Distance		Center Beam fc	Beam Width			
1.5ft	0.46m	15.7fc	3.4ft	1.03m	3.4ft	1.03m
3.0ft	0.91m	3.93fc	6.7ft	2.04m	6.7ft	2.04m
4.5ft	1.37m	1.75fc	10.1ft	3.07m	10.1ft	3.07m
6.0ft	1.83m	0.98fc	13.5ft	4.11m	13.5ft	4.11m
7.5ft	2.29m	0.63fc	16.8ft	5.12m	16.8ft	5.12m
9.0ft	2.74m	0.44fc	20.2ft	6.15m	20.2ft	6.15m

Delivered Lumen: 66.5 lm
Vertical Beam Spread : 96.6°
Horizontal Beam Spread : 96.6°

Tested on 07/10/2024

2W, 3000K, 90+ CRI

Polar Candela Distribution



Beam Width: 12°

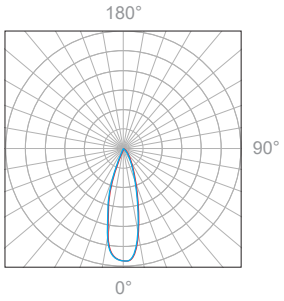
Illuminance at a Distance

Distance		Center Beam fc	Beam Width			
1.5ft	0.46m	264fc	0.6ft	0.18m	0.6ft	0.18m
3.0ft	0.91m	65.9fc	1.3ft	0.39m	1.3ft	0.39m
4.5ft	1.37m	29.3fc	1.9ft	0.58m	1.9ft	0.58m
6.0ft	1.83m	16.5fc	2.6ft	0.79m	2.6ft	0.79m
7.5ft	2.29m	10.5fc	3.2ft	0.98m	3.2ft	0.98m
9.0ft	2.74m	7.32fc	3.9ft	1.18m	3.9ft	1.18m

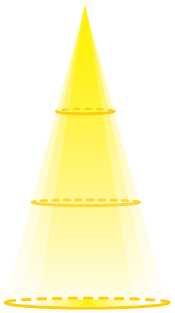
Delivered Lumen: 144.6 lm
Vertical Beam Spread: 24.2°
Horizontal Beam Spread: 24.2°

Tested on 07/10/2024

Polar Candela Distribution



Beam Width: 30°



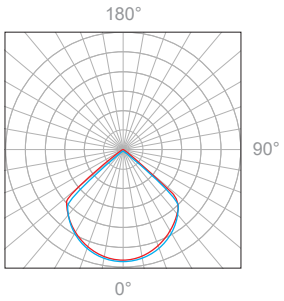
Illuminance at a Distance

Distance		Center Beam fc	Beam Width			
1.5ft	0.46m	143fc	0.8ft	0.24m	0.8ft	0.24m
3.0ft	0.91m	35.7fc	1.6ft	0.49m	1.6ft	0.49m
4.5ft	1.37m	15.9fc	2.4ft	0.73m	2.4ft	0.73m
6.0ft	1.83m	8.93fc	3.2ft	0.98m	3.3ft	1.00m
7.5ft	2.29m	5.72fc	4.1ft	1.25m	4.1ft	1.25m
9.0ft	2.74m	3.97fc	4.9ft	1.52m	4.9ft	1.52m

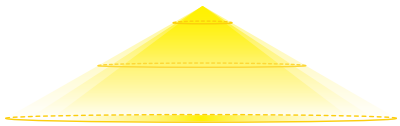
Delivered Lumen: 120.2 lm
Vertical Beam Spread: 30.3°
Horizontal Beam Spread: 30.3°

Tested on 07/10/2024

Polar Candela Distribution



Beam Width: 120°



Illuminance at a Distance

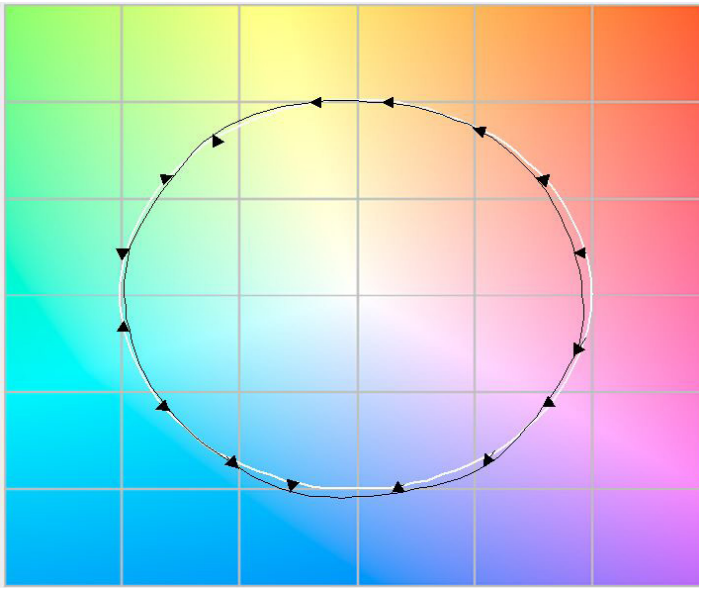
Distance		Center Beam fc	Beam Width			
1.5ft	0.46m	30.0fc	3.4ft	1.03m	3.3ft	1.00m
3.0ft	0.91m	7.50fc	6.7ft	2.04m	6.6ft	2.01m
4.5ft	1.37m	3.33fc	10.1ft	3.07m	9.9ft	3.01m
6.0ft	1.83m	1.88fc	13.5ft	4.11m	13.2ft	4.02m
7.5ft	2.29m	1.20fc	16.8ft	5.12m	16.5ft	5.03m
9.0ft	2.74m	0.83fc	20.2ft	6.15m	19.8ft	6.03m

Delivered Lumen: 131.2 lm
Vertical Beam Spread : 96.6°
Horizontal Beam Spread : 96.5°

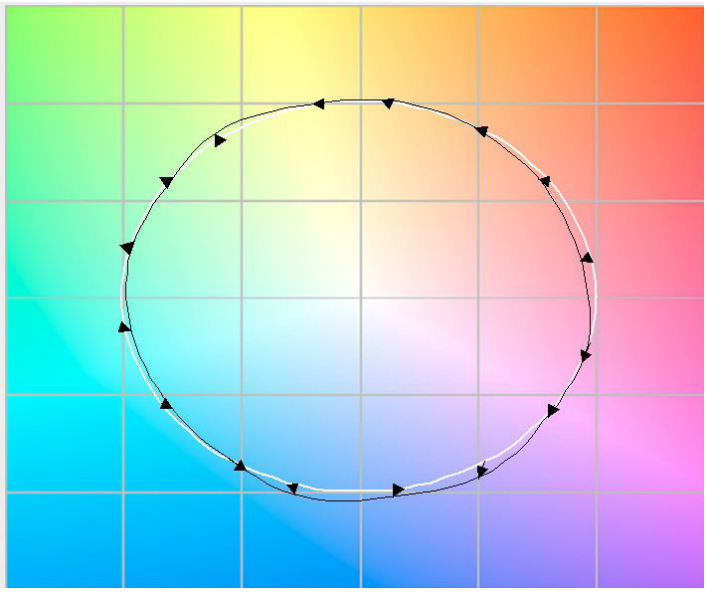
Tested on 07/10/2024

TM30 Report

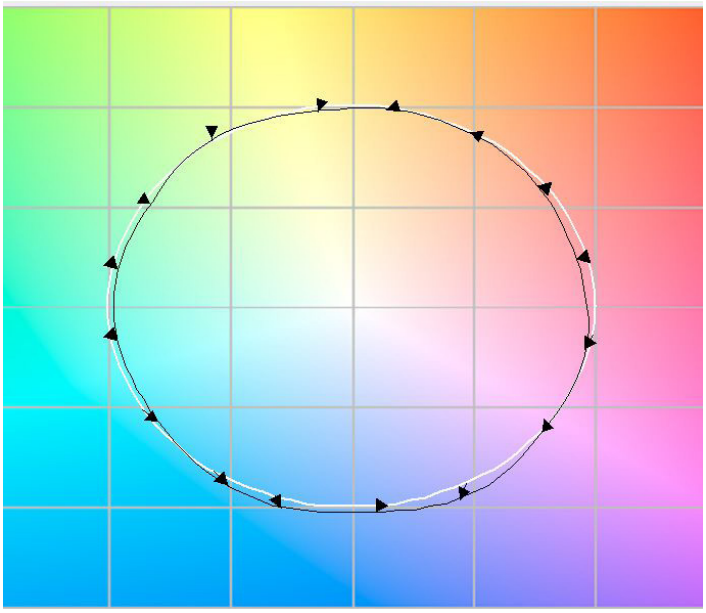
2700K, 90+CRI



3000K, 90+CRI



3500K, 90+CRI



Appendix

Stainless Finishes

S6 stainless steel 316L

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