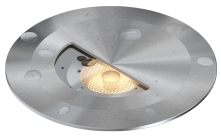
U300

UNDERWATER: CHLORINATED WATER & FRESHWATER
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: U300-2-W30H-N-C-LM-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 [6]	Lead Length [7]	Trim Finish
U300										**S6**
	1 1W **2** 2W	**W22H** 2200K 90+ **W27H** 2700K 90+ **W30H** 3000K 90+ **W35H** 3500K 90+	**S** spot 12° **N** narrow flood 30° **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 Finish:** **S6** stainless steel 316

System Components (Ordered Separately)

Pool-certified power supplies : _____

* 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. *For components included , refer to Luminaire Construction section.For custom box and flange options, consult MP factory.*
7. *Custom lengths available by 1' increments.*

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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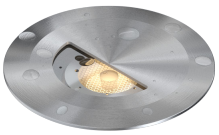


Performance

Wattage	Supply Voltage	Power Consumption Budget per fixture (including driver)	LED Output (Source)	Fixture Output (Delivered)
1W	12V	1.3W	110 lm	29-33 lm
2W	12V	2.6W	220 lm	47-53 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 **non-dimmable** 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	2.45 lbs (1.11 kg). Typical stainless steel 316 Insert & Back Box only.
Material	**Fixture:** Machined stainless steel (316) with tempered glass.
Supplied with	**Standard installation housing:** Comes with a 304 stainless steel square back box, an brass/stainless steel 316 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

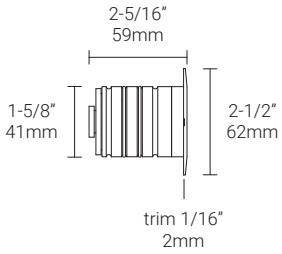
Ordered Separately

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

Mounting Options & Dimensions

LED Insert Dimensions

Fixture

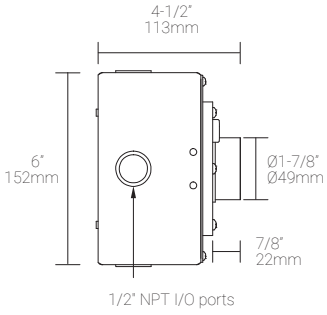


Top View

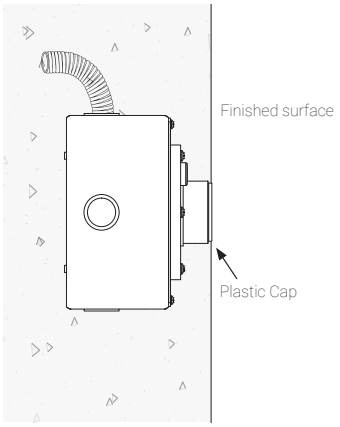
3D View

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

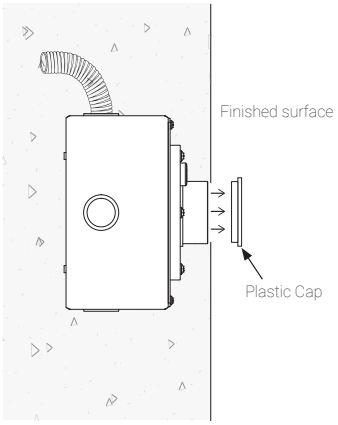
Box with Standard Flange



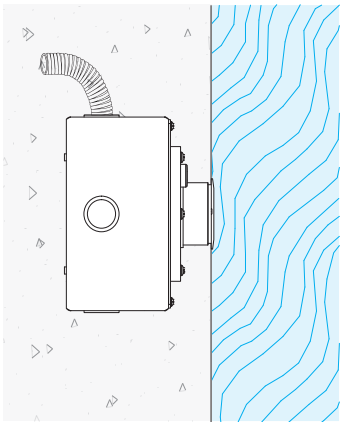
Box with Short Flange:
During Concrete Installation



Box with Short Flange:
Complete Concrete Installation



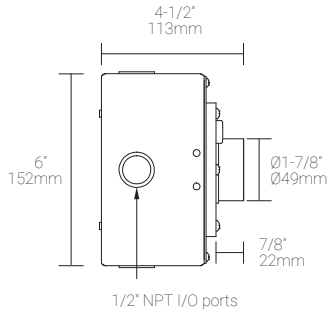
Box with Short Flange :
Complete Concrete Installation



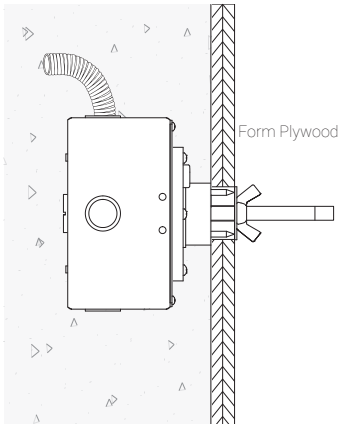
Mounting Kits

MK1: Ceiling, Wall, and Stair Riser Installation (shown with MP Lighting Back Box | Order Code: EBX-SQR1-CSS6**)**

Box with Standard Flange

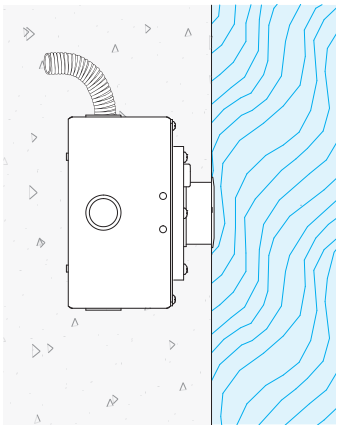


Box with Standard Flange & MK1:
During Installation



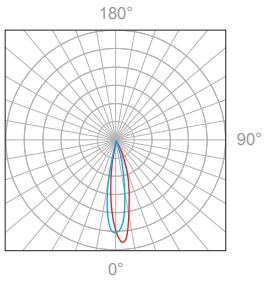
6" (152mm) threaded rod is
supplied. Thread size: 3/8"-16

Box with Standard Flange:
Complete Installation



Photometric Report | 1W, 3000K, 90+ CRI

Polar Candela Distribution



Beam Width: 12°

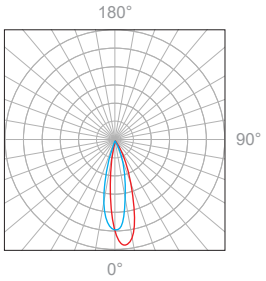
Illuminance at a Distance

Distance		Center Beam fc	Beam Width			
1.5ft	0.46m	62.9fc	0.7ft	0.24m	0.7ft	0.24m
3.0ft	0.91m	15.7fc	1.4ft	0.42m	1.4ft	0.42m
4.5ft	1.37m	6.99fc	2.2ft	0.67m	2.1ft	0.64m
6.0ft	1.83m	3.93fc	2.9ft	0.88m	2.8ft	0.85m
7.5ft	2.29m	2.52fc	3.6ft	1.09m	3.5ft	1.06m
9.0ft	2.74m	1.75fc	4.3ft	1.31m	4.2ft	1.28m

Delivered Lumen: 38.9 lm
Vertical Beam Spread: 27.1°
Horizontal Beam Spread: 26.2°

Tested on 07/10/2024

Polar Candela Distribution



Beam Width: 30°

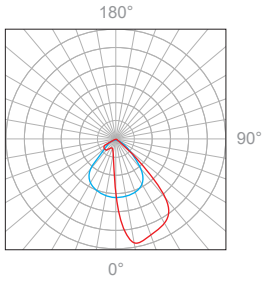
Illuminance at a Distance

Distance		Center Beam fc	Beam Width			
1.5ft	0.46m	33.6fc	0.8ft	0.24m	0.8ft	0.24m
3.0ft	0.91m	8.40fc	1.6ft	0.48m	1.6ft	0.48m
4.5ft	1.37m	3.73fc	2.4ft	0.73m	2.5ft	0.76m
6.0ft	1.83m	2.10fc	3.1ft	0.94m	3.3ft	1.00m
7.5ft	2.29m	1.34fc	3.9ft	1.18m	4.1ft	1.25m
9.0ft	2.74m	0.93fc	4.7ft	1.43m	4.9ft	1.49m

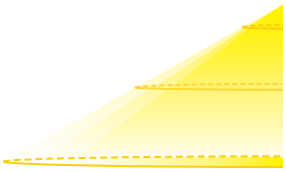
Delivered Lumen: 28.6 lm
Vertical Beam Spread: 29.4°
Horizontal Beam Spread: 30.7°

Tested on 07/10/2024

Polar Candela Distribution



Beam Width: 120°



Illuminance at a Distance

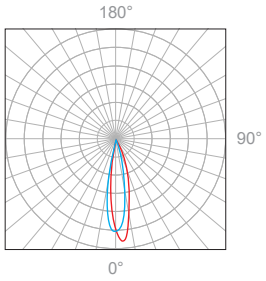
Distance		Center Beam fc	Beam Width			
1.5ft	0.46m	8.57fc	1.4ft	0.42m	3.3ft	1.00m
3.0ft	0.91m	2.14fc	2.8ft	0.85m	6.6ft	2.01m
4.5ft	1.37m	0.95fc	4.2ft	1.28m	9.9ft	3.01m
6.0ft	1.83m	0.54fc	5.6ft	1.70m	13.2ft	4.02m
7.5ft	2.29m	0.34fc	7.0ft	2.13m	16.5ft	5.03m
9.0ft	2.74m	0.24fc	8.4ft	2.56m	19.8ft	6.03m

Delivered Lumen: 38.5 lm
Vertical Beam Spread : 49.9°
Horizontal Beam Spread : 95.4°

Tested on 07/10/2024

Photometric Report | 2W, 3000K, 90+ CRI

Polar Candela Distribution



Beam Width: 12°

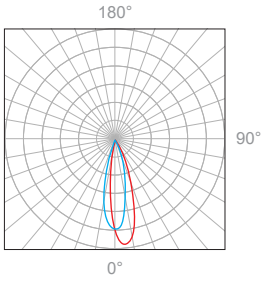
Illuminance at a Distance

Distance		Center Beam fc	Beam Width			
1.5ft	0.46m	148fc	0.6ft	0.18m	0.6ft	0.18m
3.0ft	0.91m	37.0fc	1.1ft	0.33m	1.2ft	0.36m
4.5ft	1.37m	16.4fc	1.7ft	0.51m	1.8ft	0.54m
6.0ft	1.83m	9.24fc	2.3ft	0.70m	2.4ft	0.73m
7.5ft	2.29m	5.92fc	2.9ft	0.88m	3.0ft	0.91m
9.0ft	2.74m	4.11fc	3.4ft	1.03m	3.6ft	1.09m

Delivered Lumen: 73.6 lm
Vertical Beam Spread: 21.4°
Horizontal Beam Spread: 22.4°

Tested on 07/10/2024

Polar Candela Distribution



Beam Width: 30°

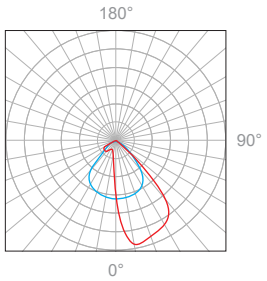
Illuminance at a Distance

Distance		Center Beam fc	Beam Width			
1.5ft	0.46m	80.7fc	0.8ft	0.24m	0.8ft	0.24m
3.0ft	0.91m	20.2fc	1.6ft	0.49m	1.6ft	0.49m
4.5ft	1.37m	8.97fc	2.4ft	0.73m	2.4ft	0.73m
6.0ft	1.83m	5.05fc	3.2ft	0.98m	3.2ft	0.98m
7.5ft	2.29m	3.23fc	4.0ft	1.22m	4.0ft	1.22m
9.0ft	2.74m	2.24fc	4.8ft	1.46m	4.9ft	1.49m

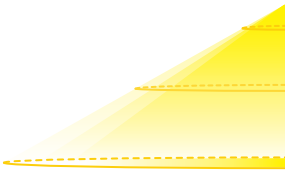
Delivered Lumen: 66.4 lm
Vertical Beam Spread: 29.6°
Horizontal Beam Spread: 30.2°

Tested on 07/10/2024

Polar Candela Distribution



Beam Width: 120°



Illuminance at a Distance

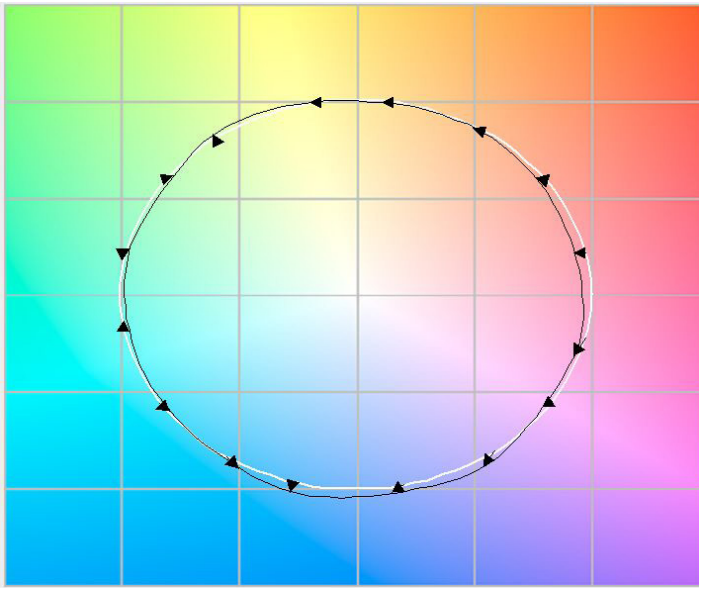
Distance		Center Beam fc	Beam Width			
1.5ft	0.46m	17.2fc	1.4ft	0.42m	3.2ft	0.97m
3.0ft	0.91m	4.29fc	2.7ft	0.82m	6.5ft	1.98m
4.5ft	1.37m	1.91fc	4.1ft	1.25m	9.7ft	2.95m
6.0ft	1.83m	1.07fc	5.5ft	1.67m	13.0ft	3.96m
7.5ft	2.29m	0.69fc	6.8ft	2.07m	16.2ft	4.93m
9.0ft	2.74m	0.48fc	8.2ft	2.50m	19.5ft	5.94m

Delivered Lumen: 72.8 lm
Vertical Beam Spread : 49°
Horizontal Beam Spread : 94.5°

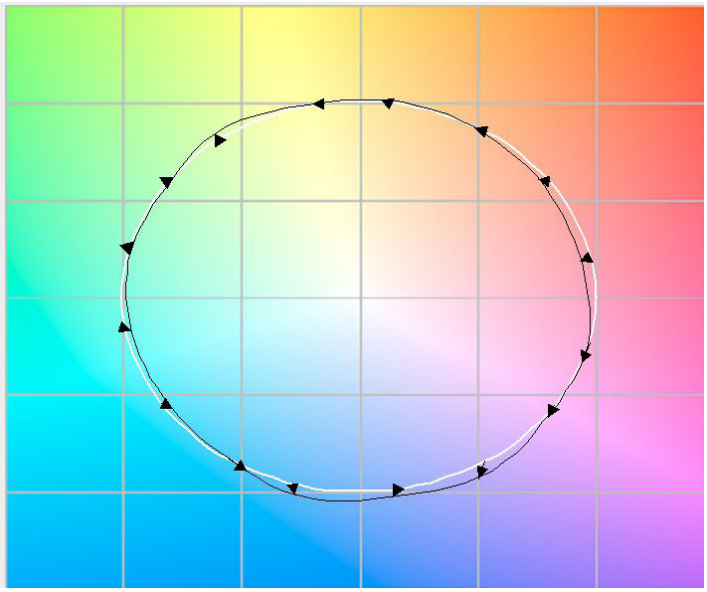
Tested on 07/10/2024

TM30 Report

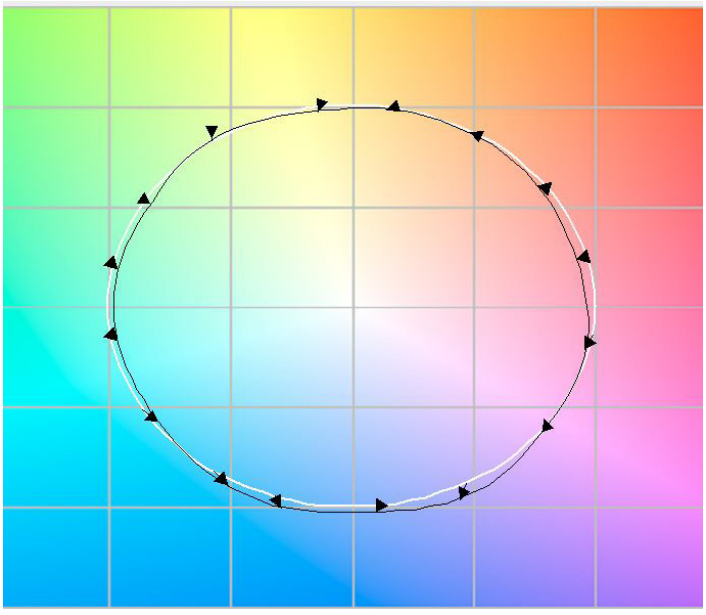
2700K, 90+CRI



3000K, 90+CRI



3500K, 90+CRI



Appendix

S6 stainless steel 316

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