U306

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



Ordering Inform	nation		Clear Form
Date :		Quantity :	
Project :		Note :	
Туре :			
Specifications			

Luminaire | Example Code: U306-2-W30H-N-C-LM-0-MK1-B-12-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
U306									S6
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 SB straight louver, black anodized SB square louver, black anodized RB ring louver, black anodized	0 no angle 20 20° 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 :

Order Guide Important Notes

Specification

1. Refer to pg.2 - for Colour Consistency details.

- 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.
- 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.

* Consult MP Lighting Website or 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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Supply Voltage

12V

12V

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



Performance	

Wattage

1W

2W

Application Environment Mounting

Electrical

Control

Power Supply

Luminaire Construction

e - Certified to US Standards		
Power Consumption Budget per fixture (including driver)	LED Output (Source)	Fixture Output (Delivered)
1.3W	110 lm	29-33 lm
2.6W	220 lm	47-53 lm
Dry / Damp / Wet/ Underwater Location approve	d. IP 68.	
Recessed: Designed to be cast into earth, gravel, MK1 mounting kit (optional): Recommended for downward-facing surfaces (e.g. ceilings, soffits).	easy installation on vertical surface	aces (e.g. stair risers, walls), and
Compatible with remote pool-certified power sup	plies	
On/off control		

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, and 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	5 years limited warranty Estimated useful life of LED is 50,000 hours.
Ordered Separately	
System Components	Power supplies: remote power supply Mounting kits: MK1

[∽] MPLIGHTING

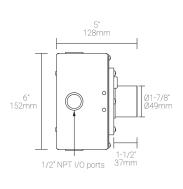
Mounting Options & Dimensions

LED Insert Dimensions

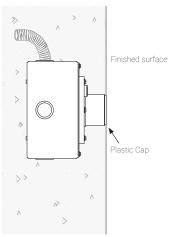


In-ground Installation (shown with MP Lighting Back Box)

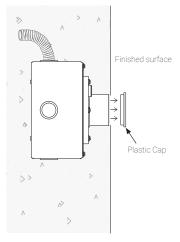
Box with Standard Flange



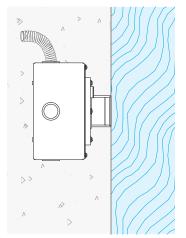
Box with Standard Flange: During Concrete Installation



Box with Standard Flange: Complete Concrete Installation



Box with Standard Flange : Complete Concrete Installation

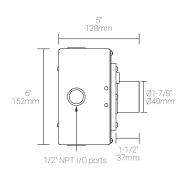


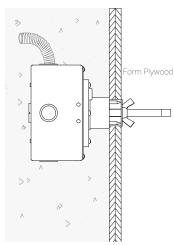
Mounting Kits

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

Box with Standard Flange

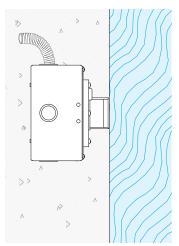
Box with Standard Flange & MK1: During Installation





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

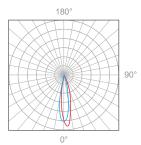
Box with Standard Flange: Complete Installation



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

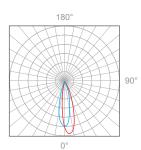
Polar Candela Distribution

Beam Width: 12°

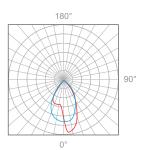




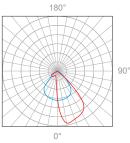
Polar Candela Distribution



Polar Candela Distribution



Polar Candela Distribution



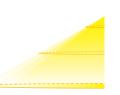
Beam Width: 30°



Beam Width: 45°



Beam Width: 120°



Illuminance at a Distance

Dist	ance	Center Beam fc	Beam Width			
1.5ft	0.46m	123fc	0.6ft	0.18m	0.5ft	0.15m
3.0ft	0.91m	30fc	1.1ft	0.34m	1.0ft	0.30m
4.5ft	1.37m	13fc	1.7ft	0.52m	1.6ft	0.49m
6.0ft	1.83m	5.7fc	2.3ft	0.70m	2.1ft	0.64m
7.5ft	2.29m	4.7fc	2.9ft	0.88m	2.6ft	0.79m
9.0ft	2.74m	3.1fc	3.4ft	1.04m	3.1ft	0.95m

Delivered Lumen: 33 Im
Vertical Beam Spread: 14.0°
Horizontal Beam Spread: 14.3°

Illuminance at a Distance

Dis	tance	Center Beam fc	Beam Width			
1.5ft	0.46m	79fc	0.8ft	0.24m	0.6ft	0.18m
3.0ft	0.91m	20fc	1.6ft	0.49m	1.3ft	0.40m
4.5ft	1.37m	8.8fc	2.4ft	0.73m	1.9ft	0.58m
6.0ft	1.83m	5fc	3.2ft	0.98m	2.6ft	0.79m
7.5ft	2.29m	3.1fc	4.0ft	1.22m	3.2ft	0.98m
9.0ft	2.74m	1.9fc	4.8ft	1.46m	3.8ft	1.16m

Delivered Lumen: 33 Im ■ Vertical Beam Spread: 29.9° ■ Horizontal Beam Spread: 24.1°

Illuminance at a Distance	
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Dista	ance	Center Beam fc	Beam Width			
3.0ft	0.91m	6.07fc	2.3ft	0.70m	1.5ft	0.45m
6.0ft	1.83m	1.52fc	4.7ft	1.43m	3.0ft	0.91m
9.0ft	2.74m	0.67fc	7.0ft	2.13m	4.5ft	1.37m
12.0ft	3.65m	0.38fc	9.3ft	2.83m	5.9ft	1.79m
15.0ft	4.57m	0.24fc	11.7ft	3.56m	7.4ft	2.25m
18.0ft	5.48m	0.17fc	14.0ft	4.26m	8.9ft	2.71m

Delivered Lumen: 41 Im

Vertical Beam Spread: 42.5°
 Horizontal Beam Spread: 27.8°

Illuminance at a Distance

Dist	ance	Center Beam fc	Beam Width			
1.5ft	0.46m	6.6fc	2.7ft	0.82m	1.2ft	0.37m
3.0ft	0.91m	2.7fc	5.4ft	1.65m	2.5ft	0.76m
4.5ft	1.37m	1.3fc	8.0ft	2.40m	3.7ft	1.13m
6.0ft	1.83m	0.73fc	10.7ft	3.26m	4.9ft	1.49m
7.5ft	2.29m	0.47fc	13.4ft	4.08m	6.1ft	1.86m
9.0ft	2.74m	0.32fc	16.1ft	4.91m	7.4ft	2.26m

Delivered Lumen: 29 Im ■ Vertical Beam Spread : 83.6° ■ Horizontal Beam Spread : 44.4°

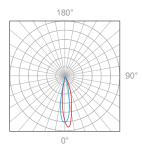


Photometric Report | 2W, 3000K, 90+ CRI

90°

Polar Candela Distribution

Beam Width: 12°



Polar Candela Distribution

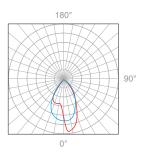
180°



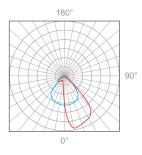
Beam Width: 45°

Polar Candela Distribution

0



Polar Candela Distribution



Beam Width: 120°



Illuminance at a Distance

Dist	ance	Center Beam fc	Beam Width			
1.5ft	0.46m	285fc	0.6ft	0.18m	0.5ft	0.15m
3.0ft	0.91m	91fc	1.1ft	0.34m	1.0ft	0.30m
4.5ft	1.37m	32fc	1.7ft	0.52m	1.6ft	0.49m
6.0ft	1.83m	17fc	2.3ft	0.70m	2.1ft	0.64m
7.5ft	2.29m	11fc	2.9ft	0.88m	2.6ft	0.79m
9.0ft	2.74m	7.2fc	3.4ft	1.04m	3.1ft	0.95m

Delivered Lumen: 53 Im

Vertical Beam Spread: 14.0°
 Horizontal Beam Spread: 14.3°

Illuminance at a Distance

Dist	ance	Center Beam fc	Beam Width			
1.5ft	0.46m	171fc	0.8ft	0.24m	0.6ft	0.18m
3.0ft	0.91m	41fc	1.6ft	0.49m	1.3ft	0.40m
4.5ft	1.37m	18fc	2.4ft	0.73m	1.9ft	0.58m
6.0ft	1.83m	9.4fc	3.2ft	0.98m	2.6ft	0.79m
7.5ft	2.29m	6fc	4.0ft	1.22m	3.2ft	0.98m
9.0ft	2.74m	4.2fc	4.8ft	1.46m	3.8ft	1.16m

Delivered Lumen: 52 lm Vertical Beam Spread: 29.9°
 Horizontal Beam Spread: 24.1°

Illuminance at a Distance

Distance		Center Beam fc	Beam Width				
3.0ft	0.91m	1.11fc	2.3ft	0.70m	1.5ft	0.45m	
6.0ft	1.83m	2.77fc	4.7ft	1.43m	3.0ft	0.91m	
9.0ft	2.74m	1.23fc	7.1ft	2.16m	4.5ft	1.37m	
12.0ft	3.65m	0.69fc	9.5ft	2.89m	6.0ft	1.82m	
15.0ft	4.57m	0.44fc	11.8ft	3.59m	7.5ft	2.28m	
18.0ft	5.48m	0.31fc	14.2ft	4.32m	9.0ft	2.74m	

Delivered Lumen: 73.6 lm

Vertical Beam Spread: 43°
 Horizontal Beam Spread: 28.2°

Illuminance at a Distance

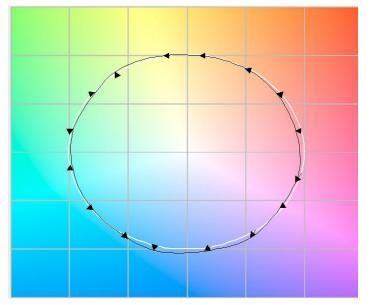
Distance		Center Beam fc	Beam Width				
1.5ft	0.46m	11fc	2.7ft	0.82m	1.2ft	0.37m	
3.0ft	0.91m	4.9fc	5.4ft	1.65m	2.5ft	0.76m	
4.5ft	1.37m	2.4fc	8.0ft	2.40m	3.7ft	1.13m	
6.0ft	1.83m	1.4fc	10.7ft	3.26m	4.9ft	1.49m	
7.5ft	2.29m	0.93fc	13.4ft	4.08m	6.1ft	1.86m	
9.0ft	2.74m	0.64fc	16.1ft	4.91m	7.4ft	2.26m	

Delivered Lumen: 47 Im ■ Vertical Beam Spread : 83.6° ■ Horizontal Beam Spread : 44.4°

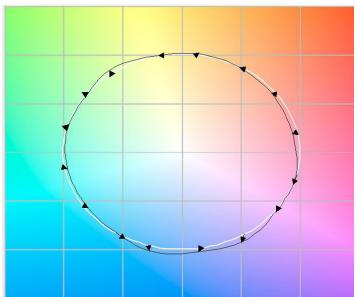
[∽] MPLIGHTING

TM30 Report

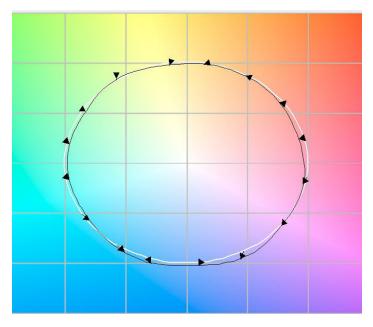
2700K, 90+CRI



3000K, 90+CRI



3500K, 90+CRI



[∽] MPLIGHTING

Appendix



S6 stainless steel 316

Accessories





LM louver, matte clear anodized



AB angled louver, black anodized





SB straight louver, black anodized

 $\ensuremath{\mathsf{HM}}$ hex louver, matte clear anodized



QB square louver, black anodized



HB hex louver, black anodized



RB ring louver, black anodized