



# P-6 POI

## RGBW LED Wash Light



### Description

The P-6 POI is the most versatile LED wash in the SGM architectural portfolio. It is a powerful IP66-rated and corrosion resistant LED wash light featuring 4-in-1 integrated RGBW LEDs to eliminate color shadows. Choose the 10° lens to achieve lux over distance, use the 35° lens for maximum lumen output, or the 25° for a blend of both. The versatility of the P-6 POI is able to tackle almost any lighting application.

### Features and benefits

- ✓ Powerful RGBW LED wash light
- ✓ Native 10°, 25° and 35° front lenses with controlled field angle
- ✓ Ideal application: Medium distances
- ✓ Compact, lightweight and maintenance-free
- ✓ Color temperature control from 2,000K to 10,000K
- ✓ Smooth dimming performance and dynamic color change
- ✓ IP66-rated with built-in dehumidifier and superior thermal management
- ✓ 5-year warranty in corrosion class C5-M (marine)

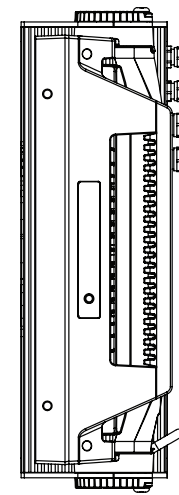
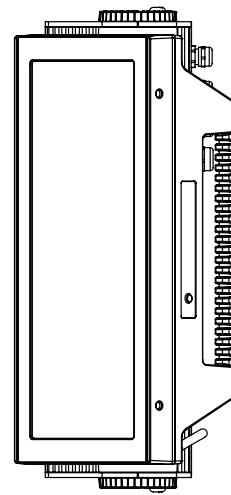
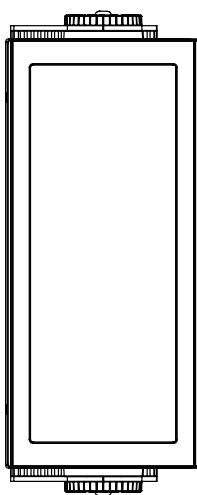
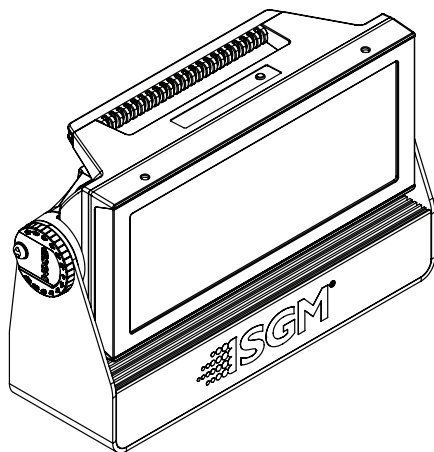
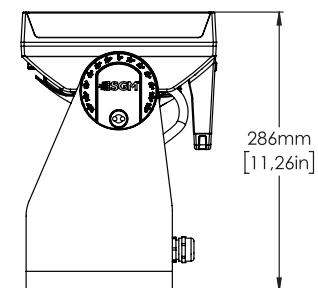
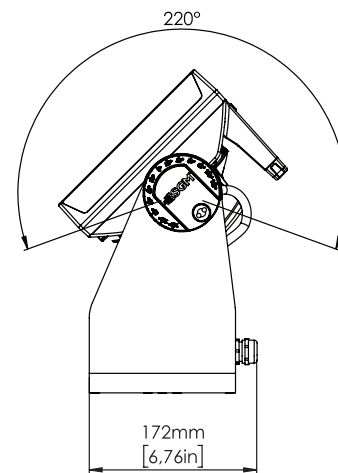
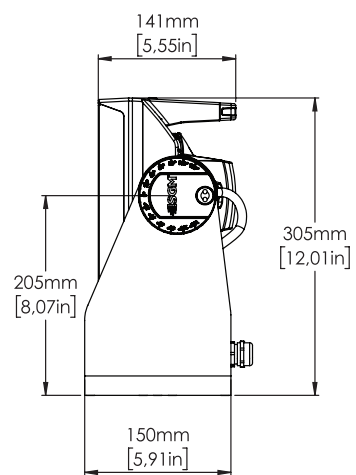
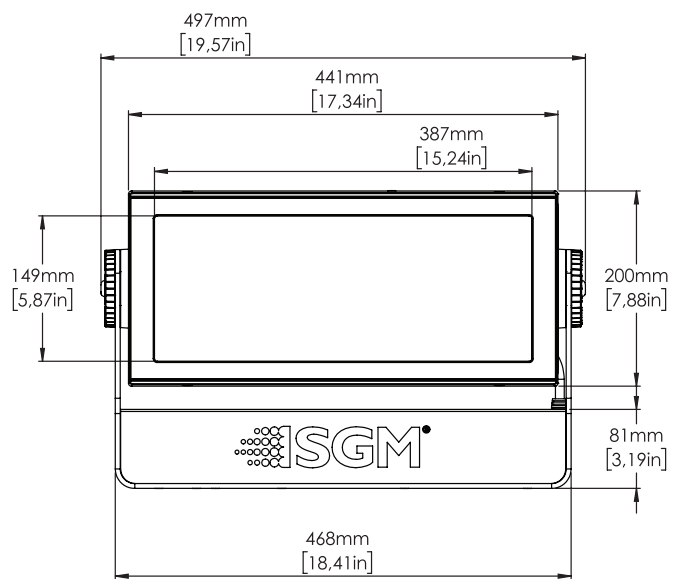
### Certifications & classifications

IP66

RoHS

CE

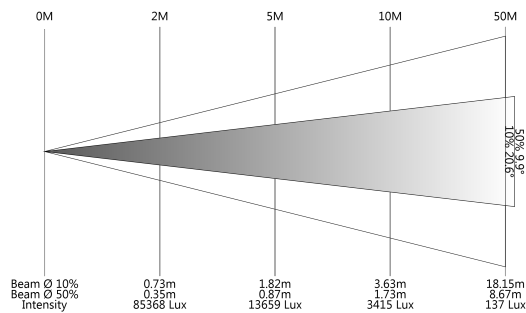




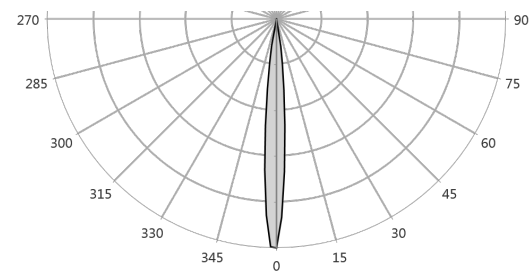
Manufacturer	SGM
Luminaire	P-6 rev3 All on raw peak
Measurement Date	23-01-2019
Power Consumption	609 W
Light Output	17 873 lm
Field Angle	20.6 deg
Beam Angle	9.9 deg



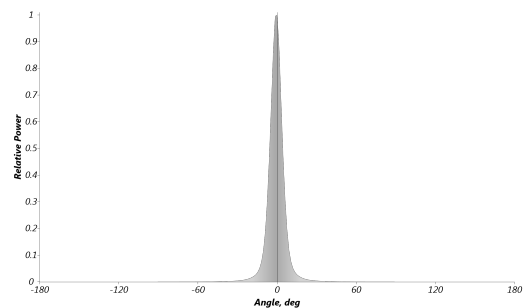
## Lux Diagram



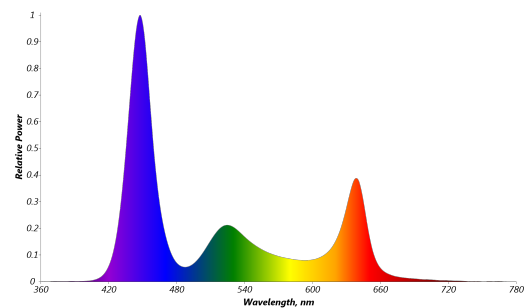
## Polar Distribution



## Beam Profile



## Spectral Distribution



# Specification

## Optical Data

LED expected lifetime	50,000 hours
Lightsource	24 x high-power 24W RGBW LEDs
Native lens options	35° 25° 10°
Optional filters	Elliptical horizontal, I/P, internal (10° x 60° angle) Elliptical vertical, I/P, internal (60° x 10° angle) Medium for 10° lens, P-6/P-10, internal (18° angle) Wide for 10° lens, P-6/P-10, internal (47° angle)

## Photometric

Color temperature range	2000K - 10000K
Efficacy	37 lm/W
Light output all LEDs on	18296 lm
Light output blue	1469 lm
Light output green	6369 lm
Light output red	3965 lm
Lumen per kilogram	1262 lm / Kg
Lux @ 10m	3546 lux
Lux @ 3m	39400 lux
Lux @ 5m	14183 lux
Native beam angle(s)	25° (with 25° lens) 11° (with 10° lens) 33° (with 35° lens)
Native field angle(s)	20° (with 10° lens) 57° (with 35° lens) 42° (with 25° lens)

## Physical

Color options	Black - RAL 9004 Custom color - Any RAL White - RAL 9010
Corrosion class	CX (C5-M - ISO 12944)
Effective Projected Area	2.15 Square ft
IK rating	IK06
IP class	IP66
Lens material	Tempered glass front
Material	Aluminium PC/ASA Rubber Steel
Net dimensions	497 x 320 x 172 mm
Net dimensions inches	19.6 x 12.6 x 6.8 inches

	Net weight	14.5 kg (32 lbs)
<b>Features</b>	Color calibration	SGM proprietary, full color calibration
	Dehumidifier	Head
	Dimming	3 Smooth fade in, DMX-controllable curves: gamma corrected, linear, halogen emulation
	Emulation mode / effect	Tungsten response emulation Color Filter Emulation
	Filters	Optional internal spread angle filters (factory assembled)
	LED panel	6 individually controllable segments
	Other	Studio DMX mode(s) LED frequency control over DMX
	Strobe	Ultra-high-speed strobe effects Intensity, Duration, Rate and FX control channels Pixel strobe (up to 6 segments)
	Tilt	220°
	Tilt locking system	POI Locking system with pignose bolts and angle indicator
<b>Electrical</b>	Electrical protection	Overload protection with automatic recover
	Input voltage, absolute max. rating	100 - 305 VAC; 50 / 60 Hz
	Input voltage, nominal	115 - 277 VAC; 50 / 60 Hz
	Max inrush current 230VAC	70 A
	Max power consumption	630 W
	Max power thru @ 100 V	13 A
	Max power thru @ 230 V	13 A
	Power factor	0.96 PF (230 V)
	Power Supply Unit	Inbuilt IP 67 Auto-ranging electronic switch-mode
<b>Programming and Control</b>	Standby power consumption	10 W
	16-bit control	Dimmer, Red, Green, Blue, White
	DMX channels	4, 6, 8, 9, 10, 18, 21, 24, 26, 27, 40
	DMX modes	13
	Protocol	CRMX, W-DMX™ G2, W-DMX™ G3, W-DMX™ G4, W-DMX™ G4S USITT DMX512A RDM ANSI E1.20
	Setting and addressing	RDM ANSI E1.20
	Standalone mode	3 programs with up to 24 scenes
	Wireless DMX	Lumen Radio with RDM

<b>Connections</b>	Data cable diameter	6,5 mm +/- 0,2 mm
	DMX data in/out	5 meter cable for DMX In and DMX Thru (permanently wired)
	Power	Power cable 5 meter with bare ends (permanently wired)
	Power cable diameter	8,5 mm +/- 0,3 mm
<b>Installation</b>	Mounting point	3 x 2 M-10 locking points (suitable for two or three optional POI Omega brackets)
	Orientation	Any
	Rigging possibilities	Hanging / horizontal mounted or ceiling / wall mount (optional)
	Safety features	Bottom mount for safety wire Minimum distance to combustible materials: 0.3 meter (11 in).
<b>Thermal</b>	Cooling	Active, Forced Air, Temperature-regulated Passive
	Humidity (max.)	98 %
	Temperature range, operating	-40°C to 50°C
	Temperature range, start-up	-20°C to 50°C
	Temperature range, storage	-40°C to 80°C
	Thermal protection	Automatic overtemperature protection
	Total heat dissipation, max power	2149.6 BTU per hour
	Total heat dissipation, standby	34.1 BTU per hour
<b>Included items</b>	Included items	POI Pignose-lock Key with magnet Safety instructions and installation quick guide 6 M-10 screws
<b>Conforms To</b>	CE - 2014/30/EU: EMC Directive	EN 55103-2 EN 55015 EN 61547 EN 61000-3-2 EN 61000-3-3 EN 55032
	CE - 2014/35/EU: Low Voltage Directive	EN 60598-1 EN 60598-2-17 EN 62471 EN 60529
	RoHS2 Directive UL	2011/65/EU UL Std. 1573
<b>Certified To</b>	CSA	CSA Std. C22.2 No. 166

**NOTES:**

Due to continuous improvements and innovations, specifications may change without notice.

LEDs' expected lifetime provided by manufacturer and obtained under manufacturer's test conditions.

Zoom range defined as a minimum beam angle to a maximum field angle.

Photometric measurements obtained with Goniometer Scan / SGM Illumination Lab 1.6.0.0.

Lumen output in pixel products is calculated.

## Ordering information

Qty	Product name	Item number
<input type="checkbox"/>	P-6, 25°, POI, BL	80251803
<input type="checkbox"/>	P-6, 25°, POI, WH	80251804
<input type="checkbox"/>	P-6, 25°, POI, CU	80251805
<input type="checkbox"/>	P-6, 35°, POI, BL	80251806
<input type="checkbox"/>	P-6, POI, BL	80251800
<input type="checkbox"/>	P-6, POI, WH	80251801
<input type="checkbox"/>	P-6, 35°, POI, WH	80251807
<input type="checkbox"/>	P-6, 35°, POI, CU	80251808
<input type="checkbox"/>	P-6, POI, CU	80251802
<input type="checkbox"/>		
Accessories		Item number
<input type="checkbox"/>	Vacuum Test Kit	83061136
<input type="checkbox"/>	Spanner key / Magnet for POI	19080604
<input type="checkbox"/>	RDM Addressing Tool	
<input type="checkbox"/>	Mounting plate, 90° - Medium, POI, P-6	83060631
<input type="checkbox"/>	Mounting plate, flat - Medium, POI, P-6	83060632
<input type="checkbox"/>	Omega Bracket POI	83060623
<input type="checkbox"/>	Anti-glare shield, full - Medium, POI, P-6 / Q-8 / i-6	83061176
<input type="checkbox"/>	Anti-glare shield, half - Medium, POI, P-6 / Q-8 / i-6	83061178
<input type="checkbox"/>	SGM USB uploader cable, POI	83062067
<input type="checkbox"/>		



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