



P-10 POI

RGBW LED Flood Light



Description

SGM's P-10 POI is a unique and extremely powerful IP66-rated outdoor LED wash and flood light, ideally suited for architectural applications with high demands, where a very high intensity is required at long throws, thus, perfect for ultra-tall structures, bridge pylons, and high-rise buildings/facades. The P-10 POI luminaire features 10° or 35° beam angles achieved with native individual front lenses.

Features and benefits

- ✓ Extremely powerful LED wash / flood light with 40165 lumen RGBW
- ✓ Ideal application: Long distances
- ✓ Superior optical color mixing and no color shifts
- ✓ IP66-rated with a patented built-in dehumidifier for a maintenance free operation
- ✓ Native 10° and 35° front lenses with controlled field angle
- ✓ Rugged construction and compact size/lumen ratio
- ✓ Flicker-free operation with 100% smooth dimming performance
- ✓ 5-year warranty in corrosion class C5-M (marine)

Certifications & classifications

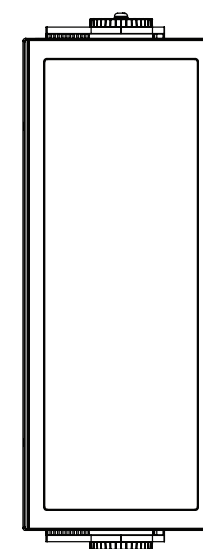
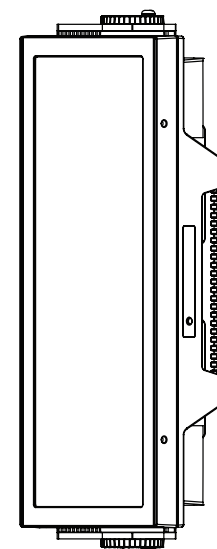
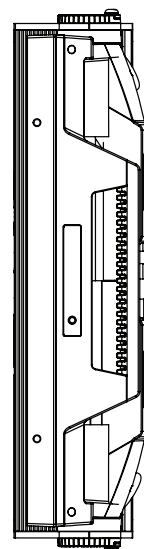
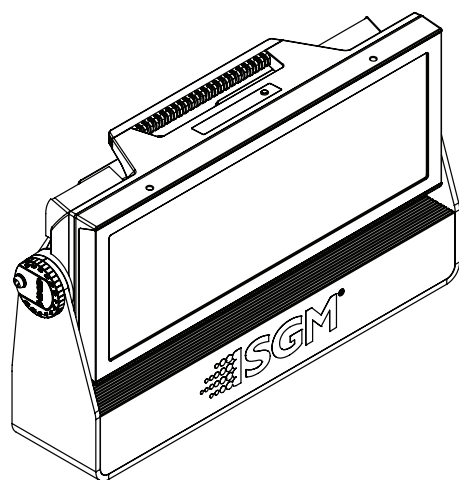
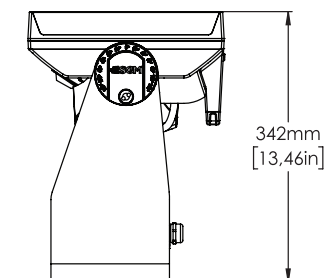
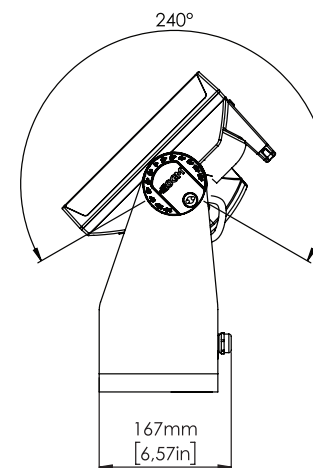
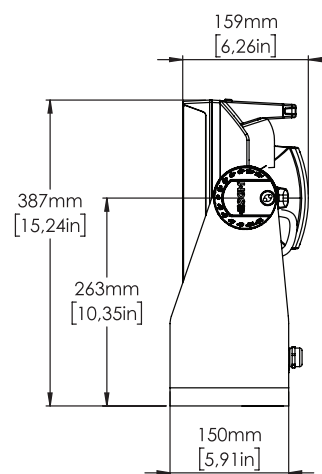
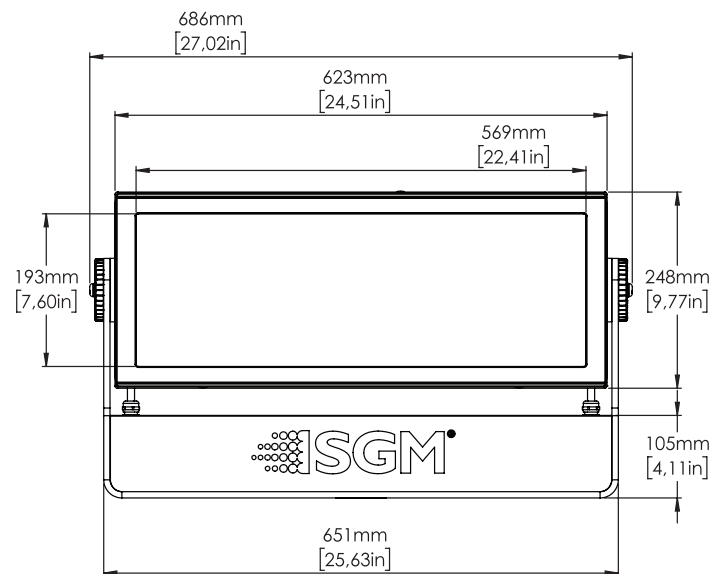
IP66

RoHS

CE

ETL

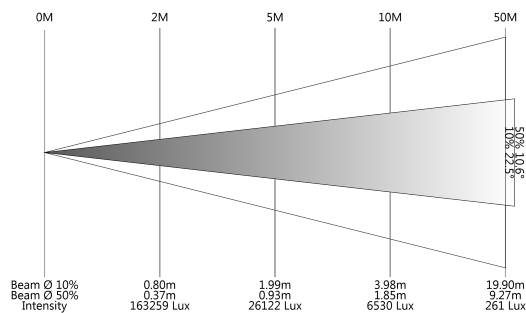
ECO



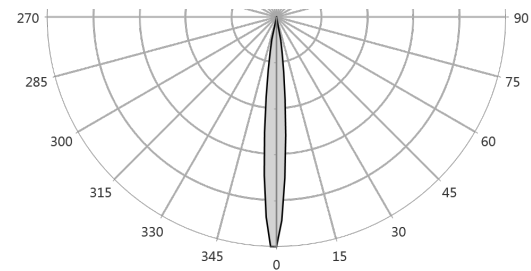
Manufacturer	SGM
Luminaire	P-10 All on raw peak
Measurement Date	01-02-2018
Power Consumption	1374 W
Light Output	40 165 lm
Field Angle	22.5 deg
Beam Angle	10.6 deg



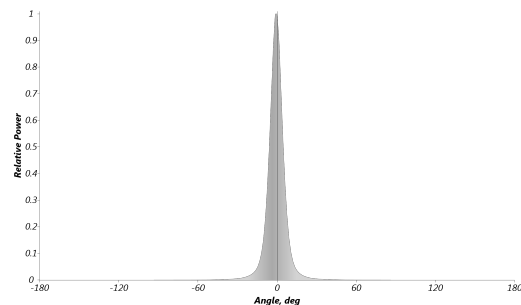
Lux Diagram



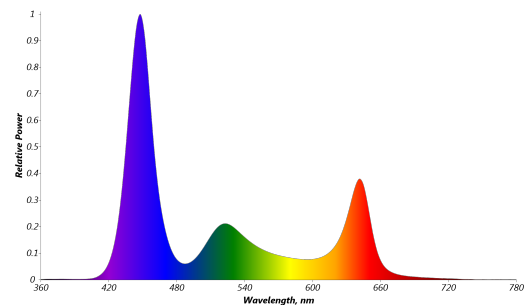
Polar Distribution



Beam Profile



Spectral Distribution



Specification

Optical Data	LED expected lifetime	50,000 hours
	Lens	35° 10°
	Lightsources	48 x high-power 24W RGBW LEDs
Photometric	Beam angle(s)	11° (with 10° lens) 33° (with 35° lens)
	Color temperature range	2000K - 10000K
	Efficacy	29 lm/W
	Light output all LEDs on	40165 lm
	Light output blue	2854 lm
	Light output green	13151 lm
	Light output red	7545 lm
	Lux @ 10m	6530 lux
	Lux @ 3m	72555 lux
	Lux @ 5m	26122 lux
	Maximum Field Angle	56 °
	Minimum Field Angle	23 °
Physical	Color options	Black - RAL 9004 Custom color - Any RAL White - RAL 9010
	Corrosion class	C5-M (ISO 12944)
	IP class	IP66
	Lens material	PE and tempered glass front
	Material	Aluminium PC/ASA Rubber Steel
	Net dimensions	702 x 402 x 206 mm
	Net dimensions inches	27.7 x 15.8 x 8.1 inches
	Net weight	20.9 kg (46.1 lbs)
Features	Dehumidifier	Base / Head
	Dimming	Electronic
	LED panel	8 individually controllable segments
	Power / DMX indicator	Base
	Strobe	Ultra-high-speed strobe effects
	Tilt	0 - 190°
	Tilt Locking System	POI Locking system with pignose bolts and angle indicator

Electrical	AC power, max.	90 - 305V 50/60Hz
	AC Power, nominal	100 - 277V 50/60Hz
	Electrical Protection	Overload protection with automatic recover
	Max Inrush Current	79 A
	Max power consumption	1400 W
	Power factor	0.99 PF (230 V)
	Power Supply Unit	Auto-ranging electronic switch-mode
	Standby power consumption	30 W
Programming and Control	Typical power consumption	1150 W
	16-bit control	Dimmer, Red, Green, Blue
	DMX channels	6, 8, 10, 27 or 30
	DMX modes	7
	Protocol	CRMX, W-DMX™ G2, W-DMX™ G3, W-DMX™ G4, W-DMX™ G4S USITT DMX512A Wireless RDM RDM ANSI E1.20
	Setting and addressing	RDM ANSI E1.20
	Wireless DMX	Lumen Radio with RDM
Connections	DMX data in/out	5 meter cable for DMX in and out Connection plate with terminals
	Power	Power cable 5 meter with bare ends Connection plate with terminals
Installation	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
	Safety features	2 attachment points for safety wire Minimum distance to combustible materials: 0.3 meter (11 in).
Thermal	Cooling	Active, Forced Air, Temperature-regulated
	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

Included items	Included items	POI Pignose-lock Key with magnet Safety instructions and installation quick guide 6 M-10 screws
Conforms To	CE - 2014/30/EU: EMC Directive	EN 55103-1 EN 55103-2 EN 55015 EN 61547 EN 61000-3-2 EN 61000-3-3
	CE - 2014/35/EU: Low Voltage Directive	EN 60598-1 EN 60598-2-17 EN 62471 EN 60529
	RoHS2 Directive	2011/65/EU
	UL	UL Std. 1573
Certified To	CSA	CSA-E598-2-17-98, Ed: 1 CSA E60598-1, Ed: 3

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
☐	P-10, POI, BL	80270103
☐	P-10, 35°, POI, BL	80270106
☐	P-10, POI, WH	80270104
☐	P-10, POI, CU	80270105
☐	P-10, 35°, POI, WH	80270107
☐	P-10, 35°, POI, CU	80270108
☐		
Accessories		Item number
☐	SGM USB uploader cable	83062011
☐	Vacuum Test Kit	83061136
☐	Spanner key / Magnet for POI	19080604
☐	Mounting plate, 90° - Large, POI P/Q/i-series	83060622
☐	Mounting plate, flat - Large, POI P/Q/i-series	83060618
☐	RDM Addressing Tool	
☐	Anti-glare shield, half - Large, POI, P/Q Series	83061163
☐	Anti-glare shield, full - Large, POI, P/Q Series	83061167
☐		



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