



P-10 POI

RGBW LED Wash Light



Description

SGM's P-10 POI is a unique and extremely powerful IP66-rated outdoor LED wash 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°, 25° or 35° beam angles achieved with native individual front lenses.

Features and benefits

- ✓ Extremely powerful LED wash light with 40165 lumen ✓ Native 10°, 25° and 35° front lenses with controlled RGBW field angle
- ✓ Ideal application: Long distances ✓ Rugged construction and compact size/lumen ratio
- ✓ Superior optical color mixing and no color shifts ✓ Flicker-free operation with 100% smooth dimming performance
- ✓ IP66-rated with a patented built-in dehumidifier for a maintenance free operation ✓ 5-year warranty in corrosion class CX (C5-M marine)

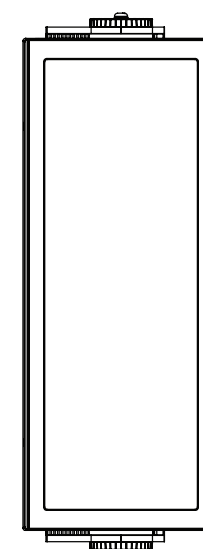
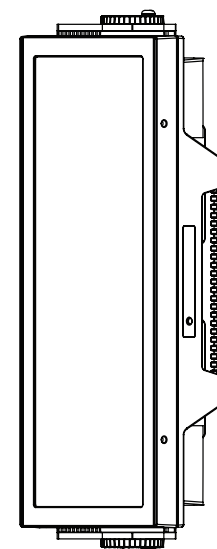
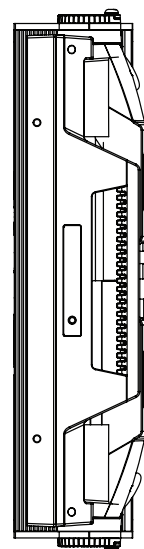
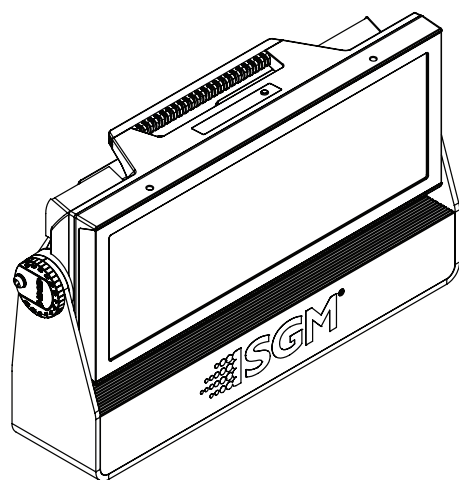
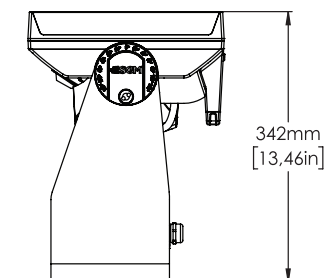
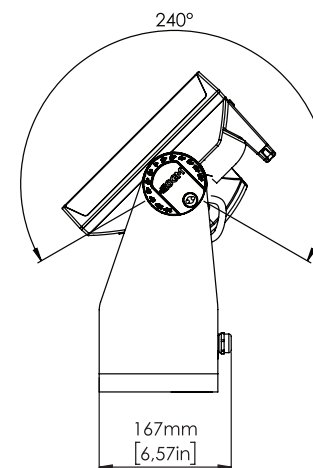
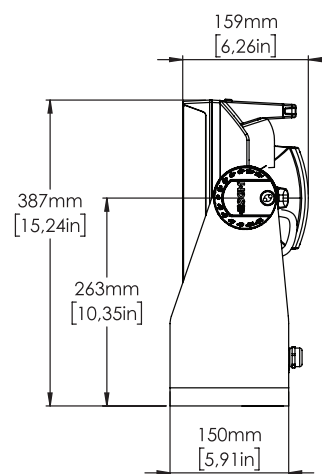
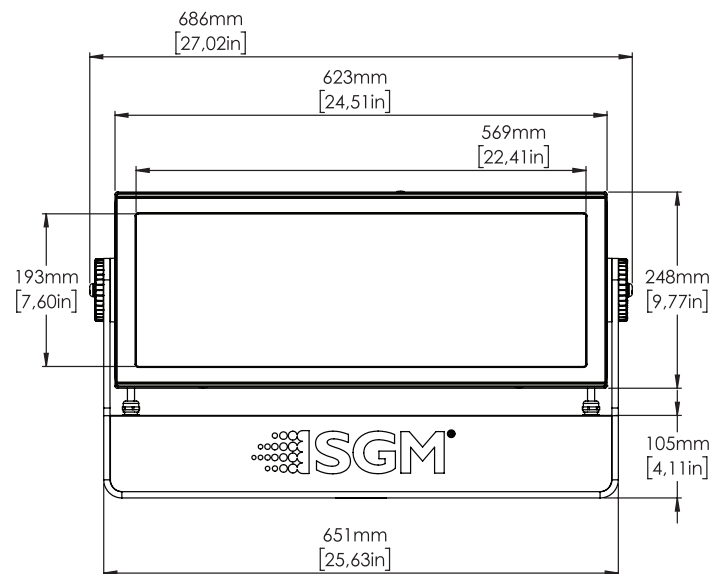
Certifications & classifications

IP66

RoHS

CE

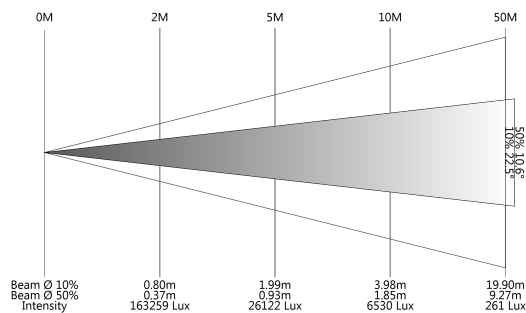




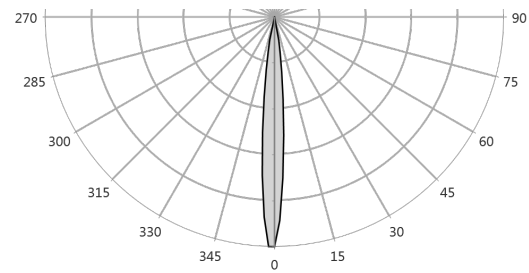
Manufacturer	SGM
Luminaire	P-10 All on raw peak
Measurement Date	01-02-2018
Power Consumption	1374 W
Light Output	40 165 lm
Field Angle	22.5 deg
Beam Angle	10.6 deg



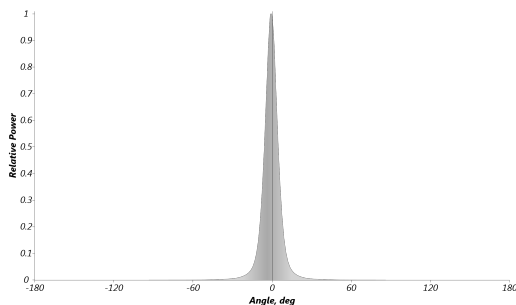
Lux Diagram



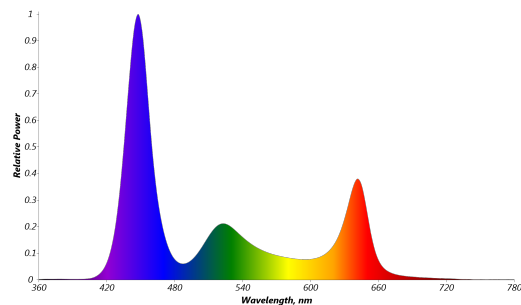
Polar Distribution



Beam Profile



Spectral Distribution



Specification

Optical Data	LED expected lifetime	50,000 hours
	Lightsource	48 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	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
	Lumen per kilogram	1922 lm / Kg
	Lux @ 10m	6530 lux
	Lux @ 3m	72555 lux
	Lux @ 5m	26122 lux
	Native beam angle(s)	25° (with 25° lens)
		11° (with 10° lens)
		33° (with 35° lens)
	Native field angle(s)	22° (with 10° lens)
56° (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	3.7 Square ft
	IP class	IP66
	Lens material	PE
	Material	Aluminium
		PC/ASA
		Rubber
		Steel
	Net dimensions	Tempered Glass
702 x 402 x 206 mm		
27.7 x 15.8 x 8.1 inches		

	Net weight	20.9 kg (46.1 lbs)
Features	Color calibration	SGM proprietary, full color calibration
	Dehumidifier	Base / 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	8 individually controllable segments
	Other	Studio DMX mode(s) LED frequency control over DMX
	Power / DMX indicator	Base
	Strobe	Ultra-high-speed strobe effects Intensity, Duration, Rate and FX control channels Pixel strobe feature (up to 8 segments)
	Tilt	0 - 190°
	Tilt locking system	POI Locking system with pignose bolts and angle indicator
Electrical	Electrical protection	Overload protection with automatic recover
	Input voltage, absolute max. rating	90 - 305 VAC; 50 / 60 Hz
	Input voltage, nominal	100 - 277 VAC; 50 / 60 Hz
	Max inrush current 230VAC	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	16-bit control	Dimmer, Red, Green, Blue, White
	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	Data cable diameter	6,5 mm +/- 0,2 mm

	DMX data in/out	5 meter cable for DMX In and DMX Thru (permanently wired) Connection plate with terminals
	Power	Power cable 5 meter with bare ends (permanently wired) Connection plate with terminals
	Power cable diameter	8,5 mm +/- 0,3 mm
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
	Total heat dissipation, max power	4776.8 BTU per hour
	Total heat dissipation, standby	102.4 BTU per hour
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
<input type="checkbox"/>	P-10, 25°, POI, BL	80270110
<input type="checkbox"/>	P-10, 25°, POI, WH	80270111
<input type="checkbox"/>	P-10, 25°, POI, CU	80270112
<input type="checkbox"/>	P-10, POI, BL	80270103
<input type="checkbox"/>	P-10, 35°, POI, BL	80270106
<input type="checkbox"/>	P-10, POI, WH	80270104
<input type="checkbox"/>	P-10, POI, CU	80270105
<input type="checkbox"/>	P-10, 35°, POI, WH	80270107
<input type="checkbox"/>	P-10, 35°, POI, CU	80270108
<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"/>	Mounting plate, 90° - Large, POI P/Q/i-series	83060622
<input type="checkbox"/>	Mounting plate, flat - Large, POI P/Q/i-series	83060618
<input type="checkbox"/>	RDM Addressing Tool	
<input type="checkbox"/>	Anti-glare shield, half - Large, POI, P/Q Series	83061163
<input type="checkbox"/>	Anti-glare shield, full - Large, POI, P/Q Series	83061167
<input type="checkbox"/>	Omega Bracket POI	83060623
<input type="checkbox"/>	SGM USB uploader cable, POI	83062067
<input type="checkbox"/>	Universal Bracket	83060641
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