SGM®

P·5 POI

RGBW LED Wash Light

Description

SGM's P-5 POI is a powerful IP66-rated outdoor RGBW LED wash light with a bright and accurate beam projection, suitable for any architectural application that requires high output over long distances, thus, perfect for medium to large-scale applications such as building facades and structures, bridges, and towers. The P-5 POI luminaire comes with different beam angles to comply with specific illumination tasks.
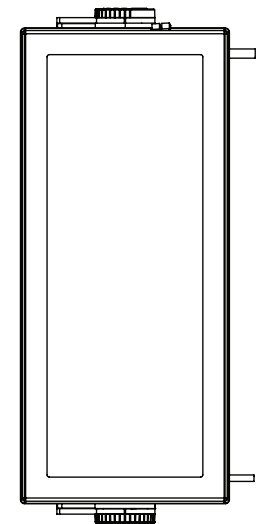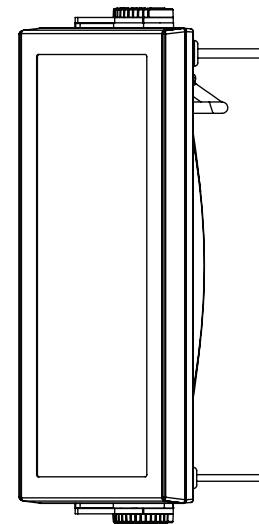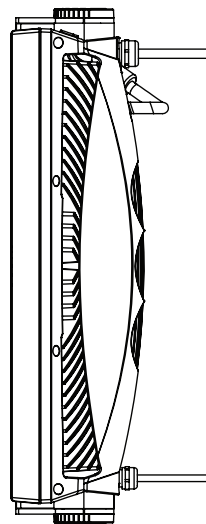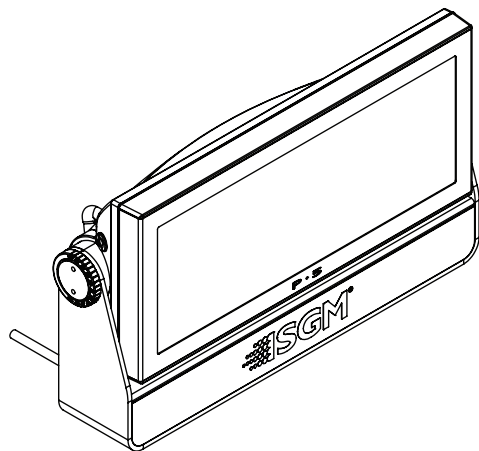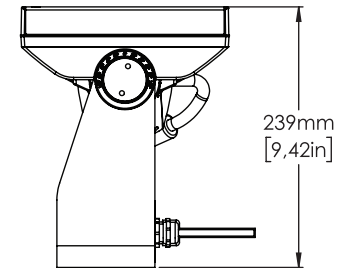
Features and benefits

✓ High-performance RGBW LED wash light with 20031 lumen

✓ Superior optical color mixing and no color shifts at short and long distances

✓ IP66-rated with a patented built-in dehumidifier for a maintenance free operation

✓ 43º, 21º, and 15º native lenses

✓ Ideal application: Medium throws for building facades and structures, bridges, and towers

✓ Flicker-free operation with 100% smooth dimming performance

✓ 5-year warranty in corrosion class C5-M (marine)

✓ Rugged construction in an ultra-compact design

Certifications & classifications

IP66   RoHS   CE   ETL c us   ECO FRIENDLY

437mm
[17,20in]

388mm
[15,28in]

143mm
[5,63in]

192mm
[7,55in]

65mm
[2,54in]

456mm
[17,95in]

122mm
[4,81in]

268mm
[10,57in]

173mm
[6,79in]

90mm
[3,54in]

190°

113mm
[4,43in]

239mm
[9,42in]

Photometric Report
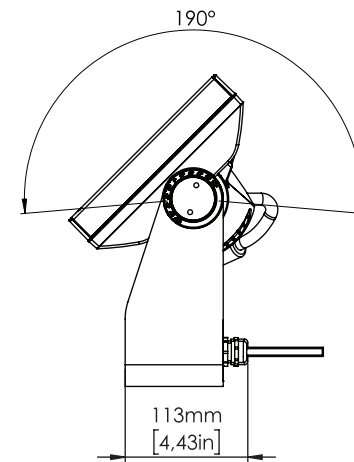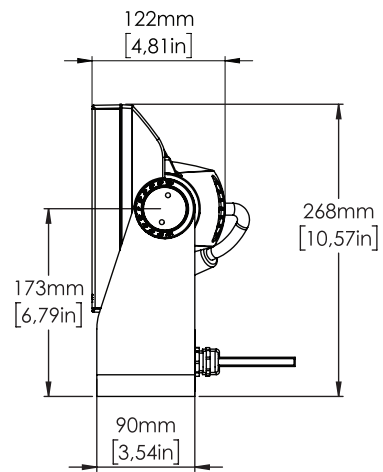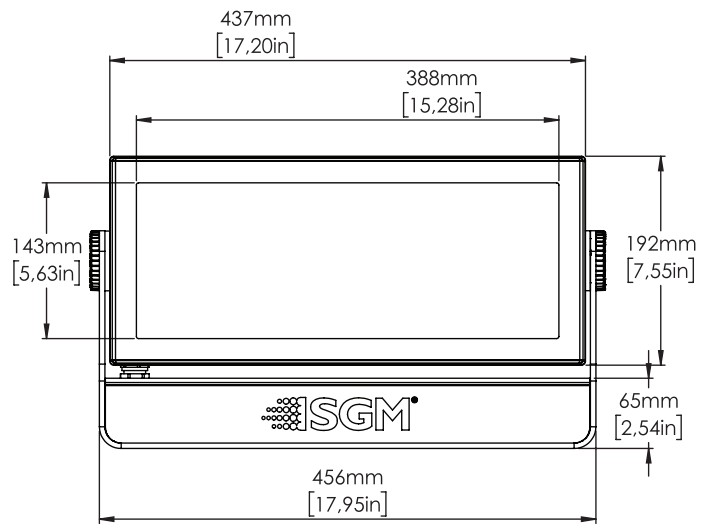
Manufacturer	SGM
Luminaire	P-5 43deg All on raw peak
Measurement Date	09-08-2017
Power Consumption	462 W
Light Output	19 104 lm
Field Angle	76.4 deg
Beam Angle	34.2 deg

Lux Diagram

0M	2M	5M	10M	50M

50% 34.2°
10% 76.4°

Beam Ø 10%	3.15m	7.87m	15.75m	78.74m
Beam Ø 50%	1.23m	3.07m	6.14m	30.72m
Intensity	8895 Lux	1423 Lux	356 Lux	14 Lux

Polar Distribution

270 285 300 315 330 345 0 15 30 45 60 75 90

Beam Profile

Relative Power — Angle, deg

Spectral Distribution

Relative Power — Wavelength, nm
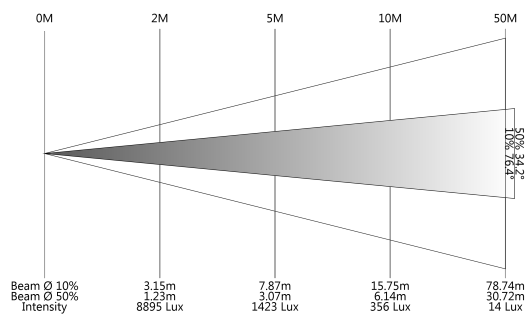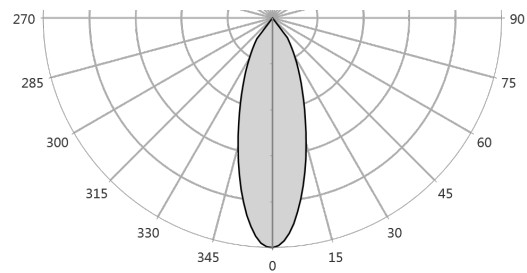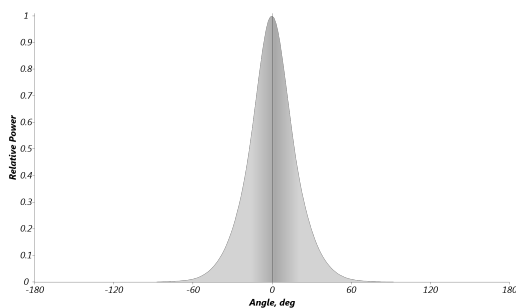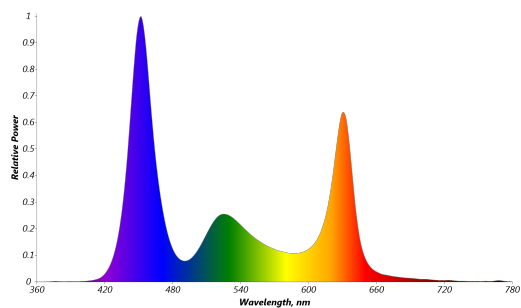
Specification

Optical Data

LED expected lifetime	50,000 hours
Lightsource	44 x high-power 10W RGBW LEDs
Native lens options	15° 21° 43°

Photometric

Average CRI (CTC)	86
Color temperature range	2000K - 10000K
Efficacy	44 lm/W
Light output all LEDs on	20031 lm
Light output blue	1353 lm
Light output green	5806 lm
Light output red	4725 lm
Lumen per kilogram	2251 lm / Kg
Lux @ 10m	1993 lux
Lux @ 3m	22142 lux
Lux @ 5m	7971 lux
Native beam angle(s)	14° (with 15° lens) 26° (with 21° lens) 35° (with 43° lens)
Native field angle(s)	76° (with 43° lens) 55° (with 21° lens) 30° (with 15° lens)

Physical

Color options	Black - RAL 9004 Custom color - Any RAL White - RAL 9010
Corrosion class	CX (C5-M - ISO 12944)
Effective Projected Area	1.72 Square ft
IP class	IP66
Lens material	PE
Material	Aluminium
Net dimensions	497 x 268 x 122 mm
Net dimensions inches	19.6 x 10.6 x 4.8 inches
Net weight	8.9 kg (19.6 lbs)

Features

Color calibration	SGM proprietary, full color calibration
Dehumidifier	Base / Head
Dimming	2 Smooth fade in, DMX-controllable curves: gamma corrected, and linear

	Filters	Optional internal spread angle filters (factory assembled)
	Other	LED frequency control, display selectable
	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	Electrical protection	Overload protection
	Input voltage, absolute max. rating	190 - 264 VAC; 50 / 60 Hz
	Input voltage, nominal	208 - 240 VAC; 50 / 60 Hz
	Max inrush current 230VAC	45 A
	Max power consumption	450 W
	Power factor	0.99 PF (230 V)
	Power Supply Unit	Auto-ranging electronic switch-mode
	Standby power consumption	8 W
Programming and Control	16-bit control	Dimmer, Red, Green, Blue, White
	DMX channels	3, 4, 6, 8, 9 or 10
	DMX modes	7
	Protocol	USITT DMX512A RDM ANSI E1.20
	Setting and addressing	RDM ANSI E1.20
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)
	Power	Power cable 5 meter with bare ends (permanently wired)
	Power cable diameter	8,5 mm +/- 0,3 mm
Installation	Mounting point	2 x 2 M-10 locking points (suitable for one or two optional POI Omega brackets)
	Orientation	Any
	Rigging possibilities	Hanging / horizontal mounted
	Safety features	Bottom mount 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	1535.4 BTU per hour	
Total heat dissipation, standby	27.3 BTU per hour	

Included items

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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 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
☐	P-5, 43°, POI, BL	80250103
☐	P-5, 21°, POI, BL	80250203
☐	P-5, 15°, POI, BL	80250303
☐	P-5, 43°, POI, WH	80250104
☐	P-5, 43°, POI, CU	80250105
☐	P-5, 21°, POI, WH	80250204
☐	P-5, 15°, POI, WH	80250304
☐	P-5, 21°, POI, CU	80250205
☐	P-5, 15°, POI, CU	80250305
☐		

Qty	Accessories	Item number
☐	Vacuum Test Kit	83061136
☐	Anti-glare shield, half - POI, P·5/Q·7/i·5 Series	83061162
☐	Anti-glare shield, full - POI, P·5/Q·7/i·5 Series	83061165
☐	Spanner key / Magnet for POI	19080604
☐	Mounting plate, flat - POI P·5, Q·7, i·5 Series	83060617
☐	Mounting plate, 90° - POI P·5, Q·7, i·5 Series	83060620
☐	RDM Addressing Tool	
☐	Omega Bracket POI	83060623
☐	SGM USB uploader cable, POI	83062067
☐		