SGM®

Q·7 POI

RGBW LED Wash Light

Description

SGM's Q-7 RGBW POI is a powerful IP66-rated outdoor LED wash light with a wide beam and a symmetric and even light projection, suitable for any architectural application that requires a spacious area of light for short-throw purposes. Therefore, this fixture is perfect for medium to large-scale applications, such as building facades and structures, bridges, and towers. When used as a flood light over surfaces, the Q-7 POI offers a bright beam range not only in horizontal but also in vertical coverage. Due to its revolutionary product features, the Q-7 won the prestigious PIPA Award for Best Lighting Product of the Year 2015.
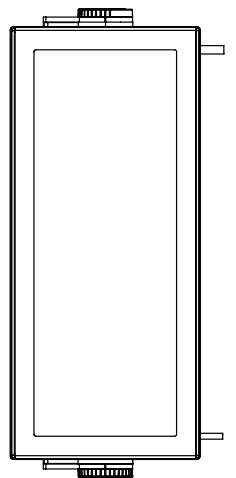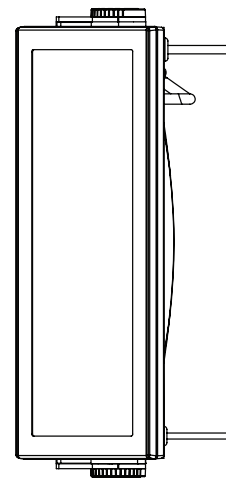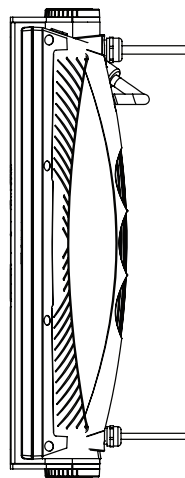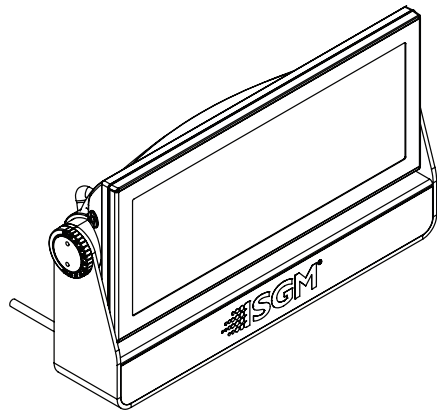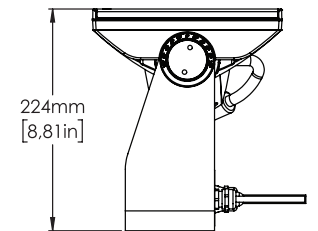
Features and benefits

- ✓ High-performance color LED wash light
- ✓ Ideal application: Short to medium-throws for building facades, bridges, and towers
- ✓ Rugged construction in an ultra-compact design
- ✓ 5-year warranty in corrosion class C5-M (marine)

- ✓ 110º wide-angle coverage
- ✓ Superior RGBW color mixing in wide coverage
- ✓ Flicker-free operation with 100% smooth dimming performance
- ✓ IP66-rated with a patented built-in dehumidifier for a maintenance free operation

Certifications & classifications

IP66   RoHS   C€   ETL LISTED   ECO FRIENDLY

473mm
[18,62in]

437mm
[17,20in]

390mm
[15,35in]

144mm
[5,67in]

192mm
[7,55in]

65mm
[2,54in]

456mm
[17,95in]

107mm
[4,20in]

268mm
[10,57in]

173mm
[6,79in]

90mm
[3,54in]

190°

113mm
[4,43in]

224mm
[8,81in]

Photometric Report

SGM®
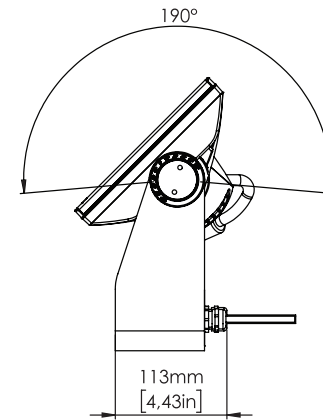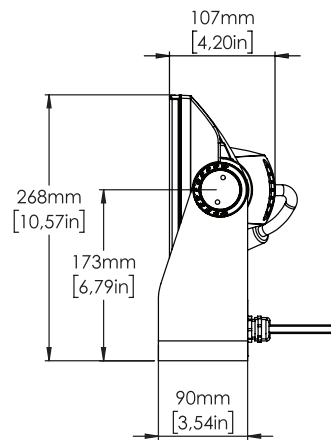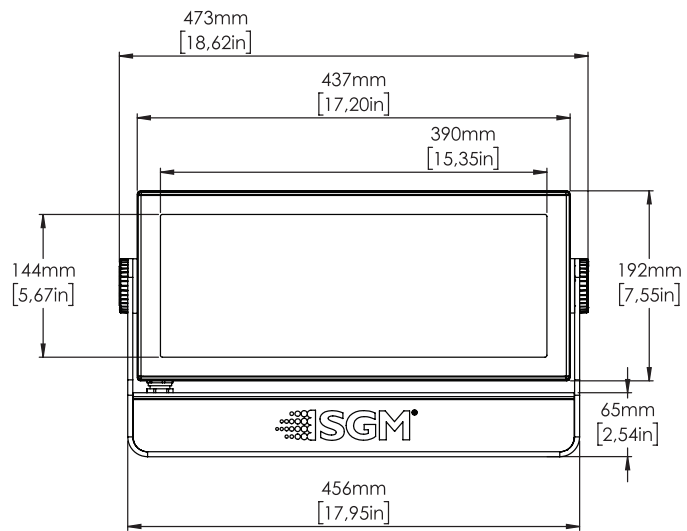
Manufacturer	SGM
Luminaire	Q-7 All on raw peak
Measurement Date	17-01-2018
Power Consumption	473 W
Light Output	25 163 lm
Field Angle	146.5 deg
Beam Angle	109.4 deg
Color Temperature	8 483 K

Lux Diagram

	0M	2M	5M	10M	50M
Beam Ø 10%		13.28m	33.21m	66.42m	332.11m
Beam Ø 50%		5.65m	14.13m	28.26m	141.32m
Intensity		2364 Lux	378 Lux	95 Lux	4 Lux

50% 109.4°
10% 146.5°

Polar Distribution

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

Beam Profile

Relative Power vs Angle, deg (-180 to 180)

Spectral Distribution

Relative Power vs Wavelength, nm (360 to 780)
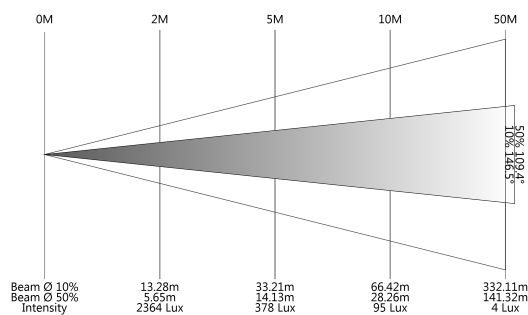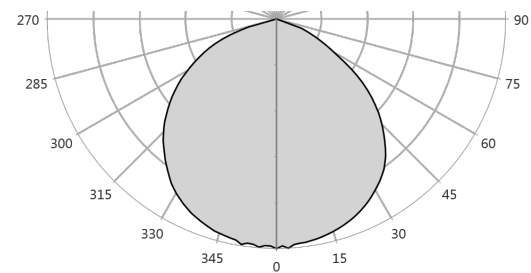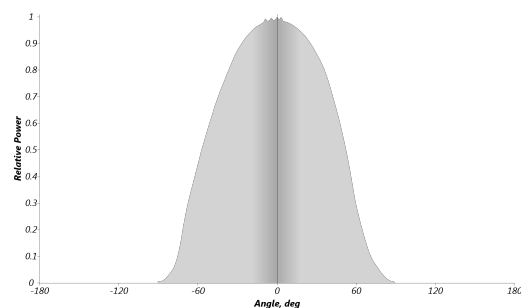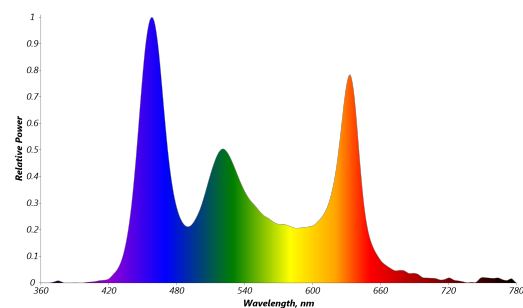
Specification

Optical Data

LED expected lifetime	50,000 hours
Lightsource	2,000 x RGBW SMD LEDs (5,700K)
Native lens options	110°
Optional filters	Extra medium angle soft diffusion, Q, internal Extra wide angle soft diffusion, Q, internal Elliptical horizontal effect, Q, internal Elliptical vertical effect, Q, internal

Photometric

Average CRI (CTC)	84
Color temperature range	2000K - 10000K
Efficacy	53 lm/W
Light output all LEDs on	25163 lm
Light output blue	1256 lm
Light output green	6948 lm
Light output red	3193 lm
Lumen per kilogram	3107 lm / Kg
Lux @ 10m	95 lux
Lux @ 3m	1051 lux
Lux @ 5m	378 lux
Native beam angle(s)	110° (with 110° lens)
Native field angle(s)	146°

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	Tempered glass front
Material	Aluminium
Net dimensions	497 x 268 x 122 mm
Net dimensions inches	19.6 x 10.6 x 4.8 inches
Net weight	8.1 kg (17.9 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 Intensity, Duration, Rate and FX control channels
	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	465 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	1586.6 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 E60598-1, Ed: 2 CSA-E598-2-17-98, Ed: 1

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
	Q-7, POI, WH	80250404
	Q-7, POI, BL	80250403
	Q-7, POI, CU	80250405

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
	Universal Bracket	83060641

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