i·2 RGBW POI

RGBW LED Wash Light

TruColor ™

ThermalDrive ™

POI

DryTech™

Description

SGM's i-2 RGBW POI is a powerful IP66-rated outdoor LED wash light with a narrow beam, suitable for any architectural application that requires high output over medium and long distances, thus, perfect to illuminate small to medium size applications such as building facades, landscapes and trees, signage, and architectural features. The i-2 RGBW POI luminaire comes with different beam angles achieved with integral holographic filters to comply with specific illumination tasks.

Features and benefits

✓ High-performance color RGBW LED wash light

✓ Ideal application: Long-throws for building facades, landscapes and trees, signage, and architectural features

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

✓ Native 8° beam angle

✓ Designed for even coverages and superior color mixing at long distances

✓ Flicker-free operation with 100% smooth dimming performance

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

✓ Rugged construction in an ultra-compact design
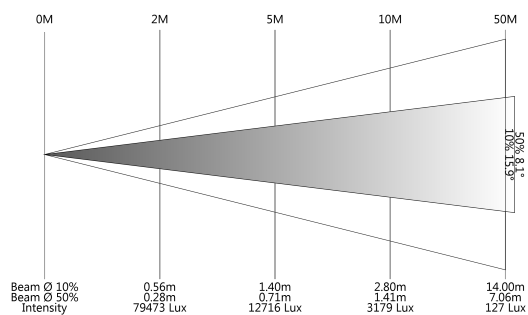
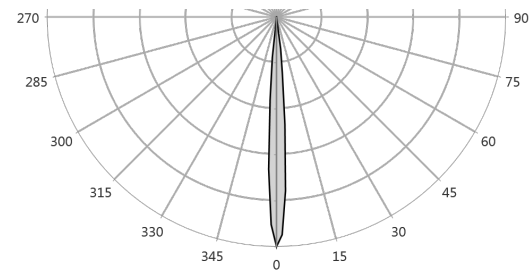## Certifications & classifications

IP66   RoHS   C E   cETLus   ECO FRIENDLY

Photometric Report

≡SGM®

Manufacturer	SGM
Luminaire	I-2 All on raw peak
Measurement Date	29-12-2017
Power Consumption	225 W
Light Output	9 908 lm
Field Angle	15.9 deg
Beam Angle	8.1 deg
Color Temperature	7 426 K

Lux Diagram

	0M	2M	5M	10M	50M
Beam Ø 10%		0.56m	1.40m	2.80m	14.00m
Beam Ø 50%		0.28m	0.71m	1.41m	7.06m
Intensity		79473 Lux	12716 Lux	3179 Lux	127 Lux

50% 8.1°
10% 15.9°

Polar Distribution

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

Beam Profile

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

Spectral Distribution

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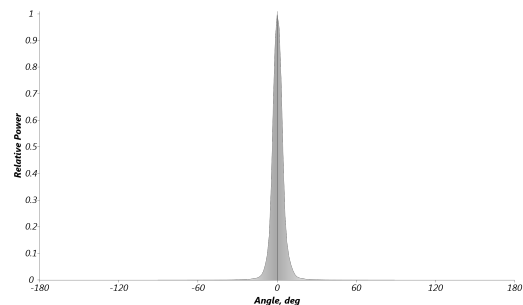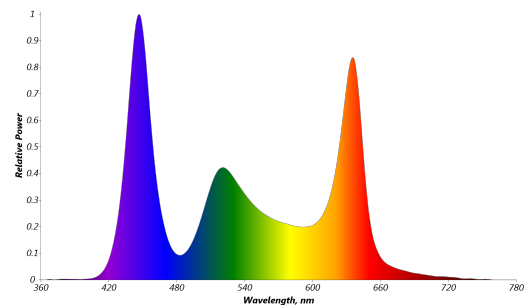
Specification

Optical Data		
	LED expected lifetime	50,000 hours
	Lightsource	69 LEDs total, 18 Red, 18 Green, 9 Blue, 24 White (5,700K)
	Native lens options	8.5°
	Optional filters	Medium, I-2/I-5, diffusion in, internal (17° angle) Wide, I-2/I-5, diffusion in, internal (42° angle) Wide, I-2/I-5, diffusion out, internal (31° angle) Elliptical horizontal, I/P, internal (10° x 60° angle) Elliptical vertical, I/P, internal (60° x 10° angle)
	Optional honeycomb	Internal

Photometric		
	Average CRI (CTC)	80
	Color temperature range	2000K - 10000K
	Efficacy	44 lm/W
	Light output all LEDs on	9908 lm
	Light output blue	250 lm
	Light output green	2553 lm
	Light output red	1565 lm
	Lumen per kilogram	1624 lm / Kg
	Lux @ 10m	3179 lux
	Lux @ 3m	35321 lux
	Lux @ 5m	12716 lux
	Native beam angle(s)	8° (with 8.5° lens)
	Native field angle(s)	17°

Physical		
	Color options	Black - RAL 9004 Custom color - Any RAL White - RAL 9010
	Corrosion class	CX (C5-M - ISO 12944)
	Effective Projected Area	0.96 Square ft
	IP class	IP66
	Lens material	PE
	Material	Aluminium
	Net dimensions	334 x 223 x 105 mm
	Net dimensions inches	13.2 x 8.8 x 4.1 inches
	Net weight	6.1 kg (13.5 lbs)

Features	Color calibration	SGM proprietary, full color calibration
	Dehumidifier	Head
	Dimming	2 Smooth fade in, DMX-controllable curves: gamma corrected, and linear
	Filters	Optional internal spread angle filters (factory assembled)
	Power / DMX indicator	Head
	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 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	75 A
	Max power consumption	230 W
	Power factor	0.98 PF (230 V)
	Power Supply Unit	Inbuilt IP 67 Auto-ranging electronic switch-mode
	Standby power consumption	5 W
Programming and Control	16-bit control	Dimmer, Red, Green, Blue, White
	DMX channels	3, 4, 6 or 8
	DMX modes	8
	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)
	Power	Power cable 5 meter with bare ends (permanently wired)
	Power cable diameter	8,5 mm +/- 0,3 mm
Installation	Mounting point	2 M-10 locking points (suitable for one optional POI Omega bracket)
	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	784.8 BTU per hour
	Total heat dissipation, standby	17.1 BTU per hour

Included items	Included items	POI Pignose-lock Key with magnet Safety instructions and installation quick guide 2 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
☐	I-2 RGBW, POI, BL	80230503
☐	I-2 RGBW, POI, WH	80230504
☐	I-2 RGBW, POI, CU	80230505
☐	I-2 RGBW, POI, BL, HC	80230507
☐	I-2 RGBW, POI, WH, HC	80230508
☐	I-2 RGBW, POI, CU, HC	80230509
☐		

Qty	Accessories	Item number
☐	Vacuum Test Kit	83061136
☐	Anti-glare shield, half - Small, POI, P/Q/i Series	83061161
☐	Anti-glare shield, full - Small, POI, P/Q/i Series	83061164
☐	Spanner key / Magnet for POI	19080604
☐	Honeycomb for i·2 series	36800040
☐	Mounting plate, 90° - Small, POI P/Q/i-series	83060619
☐	Mounting plate, flat - Small, POI P/Q/i-series	83060616
☐	RDM Addressing Tool	
☐	Omega Bracket POI	83060623
☐	SGM USB uploader cable, POI	83062067
☐		