S·4

Fresnel LED light

Description

The S-4 Fresnel is an accurate and fully calibrated LED light with superb color mixing and very low power consumption; ideal for the broadcast, theatrical, and stage industry, where high quality lighting is essential. The S-4 Fresnel comprises red, green, blue, amber, and mint LEDs that mix directly in the light source. The optical system is designed to deliver not only a staggering output but also a perfect color mix with a completely even field.

Features and benefits

- ✓ High-power IP65 RGBAM LED Fresnel Luminaire
- ✓ High TLCI / CRI / CQS, Congo Blue enhancer, and +/- Green
- ✓ 2000K - 10000K CTC control, CRI > 92, TLCI > 90, CQS > 91, Rf > 89
- ✓ Practically maintenance-free and silent performance

- ✓ 9° to 76° motorized zoom, RDM control, and manual operation via 4 knobs
- ✓ Lightweight, compact size, and easy-installable accessories
- ✓ Interchangeable lenses, 4-way barndoors, and magnetic Top Hat
- ✓ No color shifts or hotspots / flicker-free / color filter emulation

Certifications & classifications

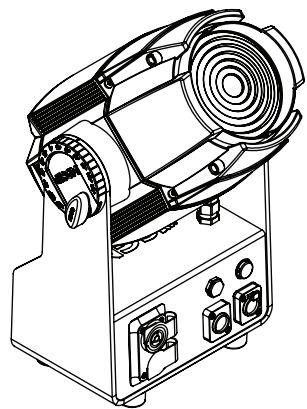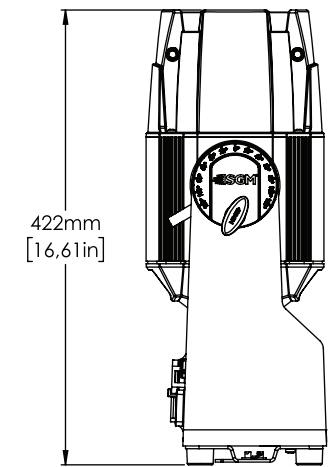IP65   RoHS   C E   ECO FRIENDLY

Ø 107mm
[4,21in]

283mm
[11,14in]

163mm
[6,40in]

220°

342mm
[13,46in]

260mm
[10,22in]

422mm
[16,61in]

Ø 24mm
[0,95in]

133mm
[5,24in]

210mm
[8,27in]

101mm
[3,98in]

147mm
[5,79in]

Photometric Report

≡SGM®
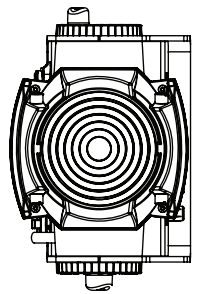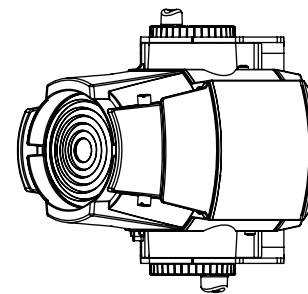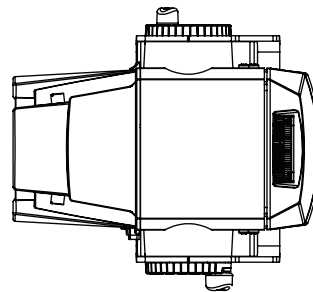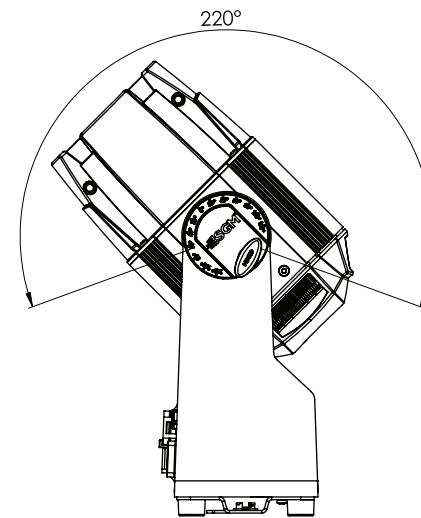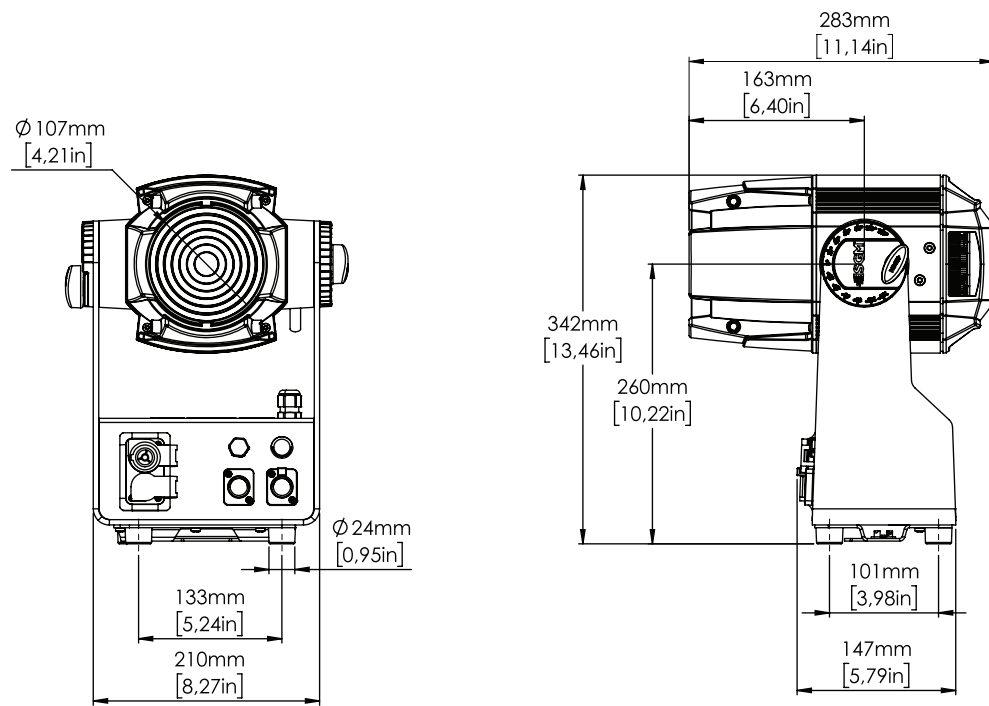
Manufacturer	SGM
Luminaire	G-4 Wash med 15deg All on raw peak
Measurement Date	25-09-2017
Power Consumption	197 W
Light Output	6 737 lm
Field Angle	27.6 deg
Beam Angle	15.5 deg
CRI	90
Color Temperature	6 965 K

Lux Diagram

0M	2M	5M	10M	50M

50% 15.5°
10% 27.6°

Beam Ø 10%	0.98m	2.46m	4.92m	24.60m
Beam Ø 50%	0.54m	1.36m	2.72m	13.58m
Intensity	18917 Lux	3027 Lux	757 Lux	30 Lux

Polar Distribution

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

Beam Profile

Relative Power (1, 0.9, 0.8, 0.7, 0.6, 0.5, 0.4, 0.3, 0.2, 0.1, 0)
Angle, deg (-180, -120, -60, 0, 60, 120, 180)

Spectral Distribution

Relative Power (1, 0.9, 0.8, 0.7, 0.6, 0.5, 0.4, 0.3, 0.2, 0.1, 0)
Wavelength, nm (360, 420, 480, 540, 600, 660, 720, 780)
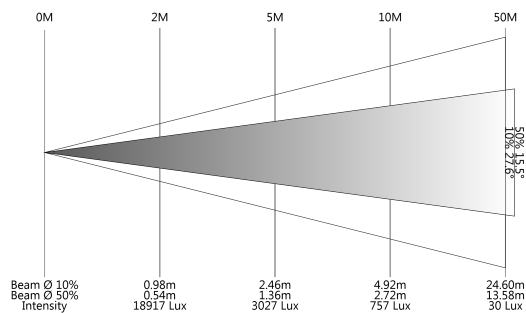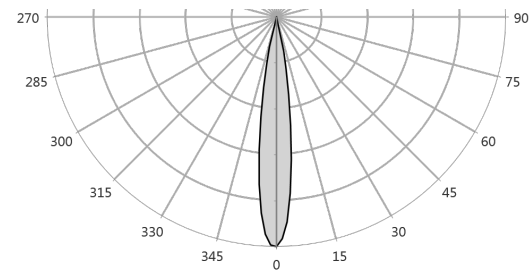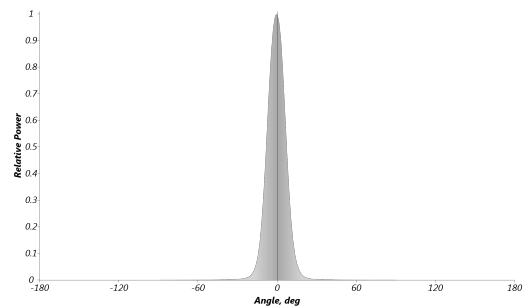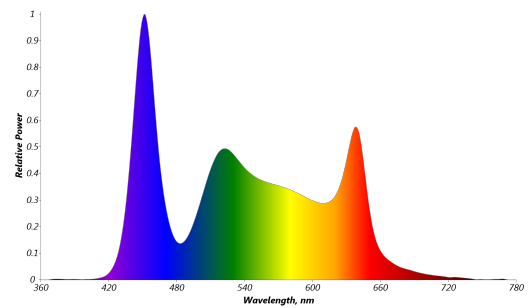
Specification

Optical Data

Fresnel lens diameter	112 mm
LED expected lifetime	50,000 hours
Lightsource	5 color 150 W
Zoom	Motorized
Zoom range	9° to 76°

Photometric

Average CQS (CTC)	91
Average CRI (CTC)	92
Average RF / TM-30-15 (CTC)	89
Average TLCI (CTC)	90
Color temperature range	2000K - 10000K
Efficacy	37 lm/W
Light output all LEDs on	7265 lm
Light output blue	264 lm
Light output green	1103 lm
Light output red	524 lm
Lumen per kilogram	1045 lm / Kg
Lux @ 10m	757 lux
Lux @ 3m	7720 lux
Lux @ 5m	3027 lux
Max. CRI @ 3200K	94
Max. CRI @ 5600K	92
Max. TLCI @ 3200K	87
Max. TLCI @ 5600K	93
Maximum beam angle	52 °
Maximum field angle	78 °
Minimum beam Angle	9 °
Minimum field angle	20 °

Physical

Color options	Black - RAL 9004 Custom color - Any RAL White - RAL 9010
IP class	IP65
Lens material	Tempered glass front
Material	Aluminium PC/ASA Plastic Rubber Steel
Net dimensions	147 x 422 x 210 mm
Net dimensions inches	5.8 x 16.6 x 8.3 inches

	Net weight	6.95 kg (15.3 lbs)
Features	Color calibration	SGM proprietary, full color calibration
	Dehumidifier	Base / Head
	Dimming	Smooth fade in, gamma corrected curve
	Emulation mode / effect	Color Filter Emulation
	Strobe	Ultra-high-speed strobe effects
	Tilt	240°
	Tilt locking system	Locking system with angle indicator
Electrical	Electrical protection	Overload protection with automatic recover
	Input voltage, absolute max. rating	90 - 264 VAC; 50 / 60 Hz
	Input voltage, nominal	100 - 240 VAC; 50 / 60 Hz
	Max inrush current 230VAC	40 A
	Max power consumption	190 W
	Power factor	0.92 PF (230 V)
	Power Supply Unit	Auto-ranging electronic switch-mode
	Standby power consumption	10 W
Programming and Control	16-bit control	Dimmer, Red, Green, Blue, White
	Cabled DMX	5 pin XLR input/output
	DMX channels	13
	DMX modes	1
	Manual control via 4 knobs	Mode 1: Intensity, hue, saturation, zoom Mode 2: Intensity, CTC, plus/minus green, zoom Mode 3: Red, Green, Blue, zoom
	Protocol	CRMX, W-DMX™ G2, W-DMX™ G3, W-DMX™ G4, W-DMX™ G4S USITT DMX512A RDM ANSI E1.20
	Setting and addressing	Control panel OLED graphical display / 4 buttons Standalone mode
	Standalone mode	Quick Color 8 Internal Standalone Programs
	Wireless DMX	Lumen Radio with RDM
Connections	DMX data in/out	IP65 XLR 5-pin connector, Female IP65 XLR 5-pin connector, Male
	Power	Power input connector & link-thru

Installation	Mounting point	2 quarter-turn locking points for one Omega bracket 28mm Spigot
	Orientation	Any
	Rigging possibilities	Hanging (Omega Brackets included)
	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	648.3 BTU per hour
	Total heat dissipation, standby	34.1 BTU per hour

Included items	Included items	2 m IP66 power cable pigtail 1 Omega bracket with quarter-turn fasteners Safety instructions and installation quick guide

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

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
☐	S-4 Fresnel C, Std, BL w/ wireless	80111003
☐	S-4 Fresnel C, Std, WH	80111102
☐	S-4 Fresnel C, STtd, CU	80111103
☐		

Qty	Accessories	Item number
☐	S·4 Micro-Fresnel Front Lens Kit	83061410
☐	Omega Bracket with 1/4-turn fasteners	83060602
☐	Power cable with IP connector	07860275
☐	SGM USB uploader cable	83062011
☐	Vacuum Test Kit	83061136
☐	G-4 / S-4 Top Hat	83061150
☐	A·4	80070217
☐	4-way Barndoors for S·4 Fresnel	83061153
☐	4-way Motorized Barndoors for G·4, S·4	83061166
☐	RDM Addressing Tool	
☐	8-way Barndoors for S·4 Fresnel	83061154
☐	Spigot adapter for omega bracket	83060639
☐	Chimera lightbank for S-4 Fresnel	83061095
☐		