

EXTERIOR WASH 100

FULLY WEATHERIZED DYNAMIC COLOR CHANGING WASH LIGHT

SPEC SHEET



HIGHLIGHTS

- Narrow beam configuration with 6 beam angle options
- Functional and discreet optional snoot which integrates with the design of the fixtures
- Control via DMX, RDM and OLED display

OVERVIEW

Exterior™ Wash 100 is a powerful, compact and energy-efficient LED lighting fixture designed to illuminate smaller structures, features of a building and landscaping. A discreet, optional snoot integrates seamlessly with the slick design of the fixtures. It has built-in display for ease-of-use, a wide selection of beam angles and is fully IP-rated for permanent outdoor use.

The Exterior Wash 100 is designed for narrow beam applications and is based on separate LEDs for red, green, blue and white.

KEY MESSAGES

BUILT TO LAST

Ideal for minimal maintenance, low total cost of ownership, and resiliency to weather and other environmental conditions. Operates at temperatures from -30°C to 45°C and its robust, vandalism-proof IK08 and fully convection cooled IP66-rated aluminum housing is surface-treated to comply with the ISO12944/C5-M corrosion marine protection standard.

EASY TO INSTALL

The Exterior Wash comes pre-installed with power and data cable has integrated multirange 100-277V power supply, so no external control boxes are required.

FLEXIBLE BEAM CONTROL

The individual red, green, blue, white LEDs allows for a native narrow beam angle configuration of 7.5° ideal for longer throw or accent lighting applications. Optional beam angle is installed via externally mounted holographic prismatic diffuser lens, ensuring precise beam control and very high transmission rate.

EASY TO CONTROL

The Exterior Wash features RDM and DMX control for great integration in control systems. The built-in OLED display allows for easy configuration and on-board stand-alone programming with up to 20 scenes.

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FEATURES

- Powerful Single-color R,G,B,W LEDs
- Up to 1800 lumens at full white (RGBW)
- Six different beam angle options
- Internal power and control (DMX, RDM and OLED display)
- Rugged IP66 housing
- 0–100% intensity control

ORDERING INFORMATION

- Exterior Wash 100, 7°, EU, aluminum: P/N 90510325
- Exterior Wash 100, 7°, US, aluminum: P/N 90510340

INCLUDED ITEMS

- Cover plate for control panel

RELATED ITEMS

- Martin Companion Cable: P/N 91616091

ACCESSORIES

- Exterior Wash 100 Series, narrow diffuser kit: P/N 91610145
- Exterior Wash 100 Series, medium diffuser kit: P/N 91610146
- Exterior Wash 100 Series, wide diffuser kit: P/N 91610147
- Exterior Wash 100 Series, very wide diffuser kit: P/N 91610148
- Exterior Wash 100 Series, asymmetric diffuser kit: P/N 91610149
- Exterior Wash 100 Series, glare shield / snoot: P/N 91611740
- Exterior Wash 100 honeycomb louvre: P/N 91611856



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TECHNICAL SPECIFICATIONS

DYNAMIC EFFECTS

Intensity 0 - 100%
Color mixing RGBW

CONTROL AND PROGRAMMING

Control systems DMX, RDM
DMX channels 3, 4 or 5 depending on DMX mode
Setting, addressing, standalone programming Control panel with OLED display
Receiver RS-485
Firmware update Serial upload via DMX link
DMX compliance USITT DMX512-A
RDM compliance ANSI/ESTA E1.20

OPTICS

Minimum LED lifetime 50 000 hours (to >70% luminous output)*
Light source 4 x R, 5 x G, 4 x B, 5 x W (6 650 K) single-color LEDs
LED manufacturer Cree

*Figure obtained under manufacturer's test conditions

PHOTOMETRIC DATA

Beam angle	Total output	Center peak
No diffuser: 7.5°	1 800 lumens	88 000 cd
Narrow diffuser: 11.5°	1 700 lumens	35 000 cd
Medium diffuser: 22°	1 700 lumens	9 900 cd
Wide diffuser: 50°	1 800 lumens	2 500 cd
Very wide diffuser: 60°	1 800 lumens	1 800 cd
Asymmetric diffuser: 61° x 15°	1 700 lumens	5 600 cd

CONSTRUCTION

Ingress protection rating IP66
Surface treatment Anodized and electrostatic powder-coated
Color Light grey (white, black or other colors available on request)
Housing Cast aluminum
Effective Projected Area (EPA) 0.05 m² including snoot
Impact resistance IK08 (with display panel cover plate installed)
Corrosion resistance C5-M (very high corrosivity / marine, ISO 12944)

RoHS compliant

INSTALLATION

Orientation Any
Mounting Adjustable yoke
Minimum distance to illuminated surfaces 0.2 m (0.6 ft.)

CONNECTIONS

Power connection 1.8 m [5.9 ft.] cable tail without connector
Power input cable type, EU models H05RN-F 300/500V, 3 x 0.75 mm², Ø 7 mm
Power input cable type, US models SJOW 18AWG, 300V, WL F1, Ø 8 mm
Data connection 1.8 m [5.9 ft.] open ended 5-conductor combined input + output cable tail
All cable entries IP68 cable gland

ELECTRICAL

AC power 100 - 240 / 277 V nominal, 50/60 Hz
Power supply unit Integrated, auto-sensing multi-voltage
Power consumption steady state, all LEDs at zero intensity 5 W
Maximum total power consumption 50 W
Typical half-cycle RMS inrush current 9.7 A
Surge protection 4 KV

TYPICAL POWER AND CURRENT

100 V, 60 Hz 0.45 A, 42 W, PF 0.99
120 V, 60 Hz 0.35 A, 42 W, PF 0.99
230 V, 50 Hz 0.2 A, 42 W, PF 0.93
277 V, 60 Hz 0.2 A, 42 W, PF 0.85

Measurements made with fixture in steady state at nominal voltage, ambient temperature [Ta] 20° C (68° F), all LEDs at full intensity. Allow for a deviation of +/- 10%.

THERMAL

Cooling Convection
Maximum ambient temperature [Ta max.] 45° C (113° F)*
Minimum ambient temperature [Ta min.] -30° C (-22° F)**
Maximum surface temperature, steady state, at 40° C ambient 70° C (158° F)
Total heat dissipation [calculated, +/- 10%] 160 BTU/hr

*Above this temperature, the fixture regulates output to protect from overheating.

**To ensure correct low temperature start-up, power must be maintained below -20° C (-4° F)

APPROVALS

EU safety EN60598-2-5 (EN60598-1), EN62471, EN62493, EN60598-2-1
EU EMC EN55015, EN61547, EN61000-3-2, EN6100-3-3, EN61000-4-2, EN6100-4-4, EN6100-4-5
US safety ANSI/UL 1598
US EMC 47 CFR Part 15 Class A
Canadian safety CSA C.22.2 No. 250
Australia/NZ RCM



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PROJECTION DATA

NO DIFFUSER (7.5°)

Distance in meters (ft.)	2 m (6.6 ft.)	4 m (13 ft.)	5 m (16.4 ft.)	8 m (26.2 ft.)	10 m (32.8 ft.)	12 m (39 ft.)	14 m (46 ft.)	16 m (52 ft.)	18 m (59 ft.)
Half-peak diameter in meters (ft.)	0.3 (0.9)	0.5 (1.7)	0.7 (2.2)	1.0 (3.4)	1.3 (4.3)	1.6 (5.2)	1.8 (6.0)	2.1 (6.9)	2.4 (7.7)
Center illuminance in lux	22000	5500	3520	1375	880	611	449	344	272
Center illuminance in candela	2044	511	327	128	82	57	42	32	25

NARROW DIFFUSER (11.5°)

Distance in meters (ft.)	2 m (7 ft.)	4 m (13 ft.)	5 m (16 ft.)	8 m (26 ft.)	10 m (33 ft.)	12 m (39 ft.)	14 m (46 ft.)	16 m (52 ft.)	18 m (59 ft.)
Half-peak diameter in meters (ft.)	0.4 (1.3)	0.8 (2.6)	1.0 (3.3)	1.6 (5.3)	2.0 (6.6)	2.4 (7.9)	2.8 (9.3)	3.2 (10.6)	3.6 (11.9)
Center illuminance in lux	8750	2188	1400	547	350	243	179	137	108
Center illuminance in candela	813	203	130	51	33	23	17	13	10

MEDIUM DIFFUSER (22°)

Distance in meters (ft.)	2 m (7 ft.)	4 m (13 ft.)	5 m (16 ft.)	8 m (26 ft.)	10 m (33 ft.)	12 m (39 ft.)	14 m (46 ft.)	16 m (52 ft.)	18 m (59 ft.)
Half-peak diameter in meters (ft.)	0.8 (2.6)	1.6 (5.1)	1.9 (6.4)	3.1 (10.2)	3.9 (12.8)	4.7 (15.3)	5.4 (17.9)	6.2 (20.4)	7.0 (23.0)
Center illuminance in lux	2475	619	396	155	99	69	51	39	31
Center illuminance in candela	230	57	37	14	9	6	5	4	3

WIDE DIFFUSER (50°)

Distance in meters (ft.)	2 m (7 ft.)	4 m (13 ft.)	5 m (16 ft.)	8 m (26 ft.)	10 m (33 ft.)	12 m (39 ft.)	14 m (46 ft.)	16 m (52 ft.)	18 m (59 ft.)
Half-peak diameter in meters (ft.)	1.9 (6.1)	3.7 (12.2)	4.7 (15.3)	7.5 (24.5)	9.3 (30.6)	11.2 (36.7)	13.1 (42.8)	14.9 (49)	16.8 (55.1)
Center illuminance in lux	625	156	100	39	25	17	13	10	8
Center illuminance in candela	58	15	9	4	2	2	1	1	1

VERY WIDE DIFFUSER (60°)

Distance in meters (ft.)	2 m (7 ft.)	4 m (13 ft.)	5 m (16 ft.)	8 m (26 ft.)	10 m (33 ft.)	12 m (39 ft.)	14 m (46 ft.)	16 m (52 ft.)	18 m (59 ft.)
Half-peak diameter in meters (ft.)	2.3 (7.6)	4.6 (15.2)	5.8 (18.9)	9.2 (30.3)	11.5 (37.9)	13.9 (45.5)	16.2 (53.0)	18.5 (60.6)	20.8 (55.1)
Center illuminance in lux	450	113	72	28	18	13	9	7	6
Center illuminance in candela	42	10	7	3	2	1	1	1	1

ASYMMETRIC DIFFUSER (61° x 15°)

Distance in meters (ft.)	2 m (7 ft.)	4 m (13 ft.)	5 m (16 ft.)	8 m (26 ft.)	10 m (33 ft.)	12 m (39 ft.)	14 m (46 ft.)	16 m (52 ft.)	18 m (59 ft.)
Half-peak diameter C_0 in meters (ft.)	2.4 (7.7)	4.7 (15.5)	5.9 (19.3)	9.4 (30.9)	11.8 (38.7)	14.1 (46.4)	16.5 (54.1)	18.8 (61.8)	21.2 (69.6)
Half-peak diameter C_{90} in meters (ft.)	0.5 (2.0)	1.1 (4.1)	1.3 (5.1)	2.1 (8.1)	2.6 (10.2)	3.2 (12.2)	3.7 (14.2)	4.2 (16.3)	4.7 (18.3)
Center illuminance in lux	1400	350	224	88	56	39	29	22	6
Center illuminance in candela	130	33	21	8	5	4	3	2	2

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DIMENSIONS

PHYSICAL

Length..... 240 mm (9.5 in.)
Width..... 198 mm (7.8 in.)
Height..... 257 mm (10.2 in.)
Weight..... 5.0 kg (11.1 lbs.)

