Exterior Wash 100

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

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

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

TECHNICAL SPECIFICATIONS

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.)

Dynamic Effects
Intensity: 0 - 100%
Color mixing: RGBW

Control and Programming
Control systems: DMX, RDM
DMX channels: 4
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 single-color LEDs
LED manufacturer: Cree

Beam angle options
No diffuser: 7.5°
Narrow diffuser: 11.5°
Medium diffuser: 22°
Wide diffuser: 50°
Very wide diffuser: 60°
Asymmetric diffuser: 61° x 15°
*Figure obtained under manufacturer's test conditions

Photometric Data
Total luminous output: 1800 lumens

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
Vertical aiming: TBA
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), power must be maintained below -20° C (-4° F)
Maximum surface temperature, steady state, at 40° C ambient: 70° C (158° F)
Total heat dissipation (calculated, +/- 10%): 160 BTU/hr

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

Included Items
Power cable: Cable tail, 1.8 m (5.9 ft.), external diameter 9.5 mm (0.38 in.), installed
Data cable: Cable tail, 1.8 m (5.9 ft.), external diameter 6.5 mm (0.26 in.), installed
Cover plate for control panel

Accessories

Optical
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

Related Items
Martin USB interface box incl. cables: P/N 90758090
M-PC 2U™ incl. Martin M-DMX Interface Box and USB cable: P/N 90737070

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