

# Exterior Wash 300

Exterior Wash™ 300 is a powerful, compact and energy-efficient LED lighting fixture designed to illuminate large structures, building facades and bridges. 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 300 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



GALLERY



## FEATURES

- Powerful single color R,G,B,W LEDs
- Up to 10.300 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: 283 mm (11.2 in.)  
Width: 404 mm (15.9 in.)  
Height: 439 mm (17.3 in.)  
Weight: 19.0 kg (42.0 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: 26 x R, 28 x G, 22 x B and 28 x W single-color LEDs  
LED manufacturer: Cree

### Beam angle options

No diffuser: 7.5°  
Narrow diffuser: 11.5°  
Medium diffuser: 25°  
Wide diffuser: 41°  
Very wide diffuser: 59°  
Asymmetric diffuser: 65° x 14.5°  
*\*Figure obtained under manufacturer's test conditions*

### Photometric Data

Total luminous output: 10300 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): 0.14 m<sup>2</sup> including snoot  
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  
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: 6 W  
Maximum total power consumption: 280 W  
Typical half-cycle RMS inrush current: 10.9 A  
Surge protection: 4 KV

#### Typical Power and Current

100 V, 60 Hz: 2.6 A, 252 W, PF 0.99  
120 V, 60 Hz: 2.1 A, 250 W, PF 0.99  
230 V, 50 Hz: 1.1 A, 242 W, PF 0.97  
277 V, 60 Hz: 1.0 A, 242 W, PF 0.94

*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%): 945 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

#### Accessories

##### Optical

Exterior Wash 300 Series, narrow diffuser kit: P/N 91610155  
Exterior Wash 300 Series, medium diffuser kit: P/N 91610156  
Exterior Wash 300 Series, wide diffuser kit: P/N 91610157  
Exterior Wash 300 Series, very wide diffuser kit: P/N 91610158  
Exterior Wash 300 Series, asymmetric diffuser kit: P/N 91610159  
Exterior Wash 300 Series, glare shield / snoot: P/N 91611735  
Impact resistance: IK08 (with control panel display cover plate installed)

##### 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 300, 7°, EU, aluminum: P/N 90507070  
Exterior Wash 300, 7°, US, aluminum: P/N 90507071

