Exterior Wash 320

Exterior Wash™ 320 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 320 is designed for variable color temperature (2700K-6500K) applications and is based on separate 2700K and 6500K LEDs

Variable color temperature control 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 LEDs (2700K, 6500K)

- Up to 15.100 lumens at full white

- 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 temperature control: 2700 K - 6500 K

Control and Programming
Control systems: DMX, RDM
DMX channels: 2
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: 2700 K and 6500 K 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: 15100 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 m² including snoot
Impact resistance: IK08 (with control panel display 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
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, 250 W, PF 0.99
120 V, 60 Hz: 2.1 A, 245 W, PF 0.99
230 V, 50 Hz: 1.2 A, 240 W, PF 0.97
277 V, 60 Hz: 1.0 A, 240 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: Australia/NZ

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

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 320, 7°, EU, aluminum: P/N 90507080
Exterior Wash 320, 7°, US, aluminum: P/N 90507081