

EXTERIOR WASH 220

FULLY WEATHERIZED DYNAMIC COLOR TEMPERATURE WASH LIGHT

SPEC SHEET



HIGHLIGHTS

- 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

OVERVIEW

Exterior™ Wash 220 is a powerful, compact and energy-efficient LED lighting fixture designed to illuminate mid-sized structures and building facades. 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 220 is designed for variable color temperature (2700K-6500K) applications and is based on separate 2700K and 6500K LEDs

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 warm and cool color LEDs allows for precise color temperature control from 2700 K to 6500 K. 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 LEDs (2700K, 6500K)
- Up to 9300 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

ORDERING INFORMATION

- Exterior Wash 220, 7°, EU, aluminum: P/N 90509089
- Exterior Wash 220, 7°, US, aluminum: P/N 90509091

INCLUDED ITEMS

- Cover plate for control panel

RELATED ITEMS

- Martin Companion Cable: P/N 91616091

ACCESSORIES

- Exterior Wash 200 Series, narrow diffuser kit: P/N 91610154
- Exterior Wash 200 Series, medium diffuser kit: P/N 91610153
- Exterior Wash 200 Series, wide diffuser kit: P/N 91610152
- Exterior Wash 200 Series, very wide diffuser kit: P/N 91610151
- Exterior Wash 200 Series, asymmetric diffuser kit: P/N 91610150
- Exterior Wash 200 Series, glare shield / snoot: P/N 91611745
- Exterior Wash 200 Honeycomb Louvre: P/N 91611857



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TECHNICAL SPECIFICATIONS

DYNAMIC EFFECTS

Intensity 0 - 100%
Color temperature control 2700 K - 6500 K

CONTROL AND PROGRAMMING

Control systems DMX, RDM
DMX channels 3
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

*Figure obtained under manufacturer's test conditions

PHOTOMETRIC DATA

Beam angle	Total output	Center peak
No diffuser: 7.5°	9 300 lumens	448 000 cd
Narrow diffuser: 11.5°	8 800 lumens	183 000 cd
Medium diffuser: 25°	9 000 lumens	44 000 cd
Wide diffuser: 36°	8 800 lumens	20 000 cd
Very wide diffuser: 60°	9 600 lumens	9 800 cd
Asymmetric diffuser: 59° x 14.5°	9 100 lumens	31 000 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) 0.1 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 4 W
Maximum total power consumption 185 W
Typical half-cycle RMS inrush current 10.3 A
Surge protection 4 KV

TYPICAL POWER AND CURRENT

100 V, 60 Hz 1.6 A, 162 W, PF 0.99
120 V, 60 Hz 1.35 A, 160 W, PF 0.99
230 V, 50 Hz 0.75 A, 160 W, PF 0.94
277 V, 60 Hz 0.65 A, 160 W, PF 0.93

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 55° C (131° F)
Total heat dissipation (calculated, +/- 10%) 485 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, EN61000-3-3, EN61000-4-2, EN61000-4-4, EN61000-4-5
US safety ANSI/UL 1598
US EMC 47 CFR Part 15 Class A
Canadian safety CSA C.22.2 No. 250
Australia/NZ C-TICK N4241 / RCM



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PROJECTION DATA

NO DIFFUSER (7.5°)

Distance in meters (ft.)	4 m (13.1 ft.)	8 m (26.2 ft.)	12 m (39.4 ft.)	16 m (52.5 ft.)	20 m (65.6 ft.)	24 m (79 ft.)	28 m (92 ft.)	32 m (105 ft.)	36 m (118 ft.)
Half-peak diameter in meters (ft.)	0.5 (1.7)	1.0 (3.4)	1.6 (5.2)	2.1 (6.9)	2.6 (8.6)	3.1 (10.3)	3.7 (12.0)	4.2 (13.8)	4.7 (15.5)
Center illuminance in lux	28000	7000	3111	1750	1120	778	571	438	346
Center illuminance in candela	2601	650	289	163	104	72	53	41	32

NARROW DIFFUSER (11.5°)

Distance in meters (ft.)	4 m (13 ft.)	8 m (26 ft.)	12 m (39 ft.)	16 m (52 ft.)	20 m (66 ft.)	24 m (79 ft.)	28 m (92 ft.)	32 m (105 ft.)	36 m (118 ft.)
Half-peak diameter in meters (ft.)	0.8 (2.6)	1.6 (5.3)	2.4 (7.9)	3.2 (10.6)	4.0 (13.2)	4.8 (15.9)	5.6 (18.5)	6.4 (21.1)	7.3 (23.8)
Center illuminance in lux	11438	2859	1271	715	458	318	233	179	141
Center illuminance in candela	1063	266	118	66	43	30	22	17	13

MEDIUM DIFFUSER (25°)

Distance in meters (ft.)	4 m (13 ft.)	8 m (26 ft.)	12 m (39 ft.)	16 m (52 ft.)	20 m (66 ft.)	24 m (79 ft.)	28 m (92 ft.)	32 m (105 ft.)	36 m (118 ft.)
Half-peak diameter in meters (ft.)	1.8 (5.8)	3.5 (11.6)	5.3 (17.5)	7.1 (23.3)	8.9 (29.1)	10.6 (34.9)	12.4 (40.7)	14.2 (46.6)	16.0 (52.4)
Center illuminance in lux	2750	688	306	172	110	76	56	43	34
Center illuminance in candela	255	64	28	16	10	7	5	4	3

WIDE DIFFUSER (36°)

Distance in meters (ft.)	4 m (13 ft.)	8 m (26 ft.)	12 m (39 ft.)	16 m (52 ft.)	20 m (66 ft.)	24 m (79 ft.)	28 m (92 ft.)	32 m (105 ft.)	36 m (118 ft.)
Half-peak diameter in meters (ft.)	2.6 (8.5)	5.2 (17.1)	7.8 (25.6)	10.4 (34.1)	13.0 (42.6)	15.6 (51.2)	18.2 (59.7)	20.8 (68.2)	23.4 (76.8)
Center illuminance in lux	1250	313	139	78	50	35	26	20	15
Center illuminance in candela	116	29	13	7	5	3	2	2	1

VERY WIDE DIFFUSER (60°)

Distance in meters (ft.)	4 m (13 ft.)	8 m (26 ft.)	12 m (39 ft.)	16 m (52 ft.)	20 m (66 ft.)	24 m (79 ft.)	28 m (92 ft.)	32 m (105 ft.)	36 m (118 ft.)
Half-peak diameter in meters (ft.)	4.6 (15.2)	9.2 (30.3)	13.9 (45.5)	18.5 (60.6)	23.1 (75.8)	27.7 (90.9)	32.3 (106.1)	37.0 (121.2)	41.6 (76.8)
Center illuminance in lux	613	153	68	38	25	17	13	10	8
Center illuminance in candela	57	14	6	4	2	2	1	1	1

ASYMMETRIC DIFFUSER (59° x 14.5°)

Distance in meters (ft.)	4 m (13 ft.)	8 m (26 ft.)	12 m (39 ft.)	16 m (52 ft.)	20 m (66 ft.)	24 m (79 ft.)	28 m (92 ft.)	32 m (105 ft.)	36 m (118 ft.)
Half-peak diameter C ₀ in meters (ft.)	4.5 (14.8)	9.1 (29.7)	13.6 (44.5)	18.1 (59.4)	22.6 (74.2)	27.2 (89.1)	31.7 (103.9)	36.2 (118.8)	40.7 (133.6)
Half-peak diameter C ₉₀ in meters (ft.)	1.0 (3.8)	2.0 (7.6)	3.1 (11.3)	4.1 (15.1)	5.1 (18.9)	6.1 (22.7)	7.1 (26.4)	8.1 (30.2)	9.2 (34.0)
Center illuminance in lux	1938	484	215	121	78	54	40	30	8
Center illuminance in candela	180	45	20	11	7	5	4	3	2

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DIMENSIONS

PHYSICAL

- Length..... 270 mm (10.7 in.)
- Width..... 334 mm (13.2 in.)
- Height..... 382 mm (15.1 in.)
- Weight..... 13.0 kg (28.7 lbs.)

