

# EXTERIOR WASH 200

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 200 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 200 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 6500 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 200, 7°, EU, aluminum: P/N 90509087
- Exterior Wash 200, 7°, US, aluminum: P/N 90509090

### 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 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 ..... 16 x R, 18 x G, 16 x B, 18 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°	6 500 lumens	316 000 cd
Narrow diffuser: 11.5°	6 200 lumens	129 000 cd
Medium diffuser: 25°	6 300 lumens	31 000 cd
Wide diffuser: 36°	6 200 lumens	14 000 cd
Very wide diffuser: 60°	6 800 lumens	6 900 cd
Asymmetric diffuser: 59° x 14.5°	6 400 lumens	22 000 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 m<sup>2</sup> 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 mm<sup>2</sup>, 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 ..... 3 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, 160 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 0.89

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 ..... 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	19750	4938	2194	1234	790	549	403	309	244
Center illuminance in candela	1835	459	204	115	73	51	37	29	23

### 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	8063	2016	896	504	323	224	165	126	100
Center illuminance in candela	749	187	83	47	30	21	15	12	9

### 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	1938	484	215	121	78	54	40	30	24
Center illuminance in candela	180	45	20	11	7	5	4	3	2

### 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	875	219	97	55	35	24	18	14	11
Center illuminance in candela	81	20	9	5	3	2	2	1	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	431	108	48	27	17	12	9	7	5
Center illuminance in candela	40	10	4	3	2	1	1	1	0

### 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 <sub>0</sub> 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 <sub>90</sub> in meters (ft.)	1.0 (3.8)	2.0 (7.6)	3.1 (11.3)	4.1 (15.4)	5.1 (18.9)	6.1 (22.7)	7.1 (26.4)	8.1 (30.2)	9.2 (34.0)
Center illuminance in lux	1375	344	153	86	55	38	28	21	5
Center illuminance in candela	128	32	14	8	5	4	3	2	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.)

