

# EXTERIOR WASH 110

FULLY WEATHERIZED DYNAMIC COLOR CHANGING WASH LIGHT

SPEC SHEET



## HIGHLIGHTS

- Uniform color mixing 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 110 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 110 is designed for superior color mixing applications and is based on quad-color premixed 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 QUAD color LEDs allows for uniform color mixing direct from the lens with no color shadows and superior color mixing. 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 Premixed LEDs
- Up to 1300 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 110, 10°, EU, aluminum: P/N 90510330
- Exterior Wash 110, 10°, US, aluminum: P/N 90513545

### INCLUDED ITEMS

- Cover plate for control panel

### RELATED ITEMS

- Martin Companion Cable: P/N 91616091

### ACCESSORIES

- 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
- Exterior Wash 110 honeycomb louvre: P/N 91611855



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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 ..... 4 x RGBW quad-color LEDs  
LED manufacturer ..... Cree

\*Figure obtained under manufacturer's test conditions

### PHOTOMETRIC DATA

Beam angle	Total output	Center peak
No diffuser: 11°	1 300 lumens	32 000 cd
Narrow diffuser: 16°	1 200 lumens	13 000 cd
Medium diffuser: 24°	1 200 lumens	6 200 cd
Wide diffuser: 52°	1 200 lumens	1 600 cd
Very wide diffuser: 60°	1 200 lumens	1 200 cd
Asymmetric diffuser: 54° x 16°	1 200 lumens	3 500 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) ..... 0.05 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 ..... 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 0.96  
277 V, 60 Hz ..... 0.2 A, 42 W, PF 0.90

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 ..... 70° C (158° F)  
Total heat dissipation (calculated, +/- 10%) ..... 160 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 (11°)

Distance in meters (ft.)	2 m (6.6 ft.)	4 m (13.1 ft.)	6 m (19.7 ft.)	8 m (26.2 ft.)	10 m (32.8 ft.)	12 m (39 ft.)	14 m (46 ft.)	16 m (52 ft.)	18 m (59 ft.)
Half-peak diameter in meters (ft.)	0.4 (1.3)	0.8 (2.5)	1.2 (3.8)	1.5 (5.1)	1.9 (6.3)	2.3 (7.6)	2.7 (8.8)	3.1 (10.1)	3.5 (11.4)
Center illuminance in lux	8000	2000	889	500	320	222	163	125	99
Center illuminance in candela	743	186	83	46	30	21	15	12	9

### NARROW DIFFUSER (16°)

Distance in meters (ft.)	2 m (7 ft.)	4 m (13 ft.)	6 m (20 ft.)	8 m (26 ft.)	10 m (33 ft.)	12 m (39 ft.)	14 m (46 ft.)	16 m (52 ft.)	18 m (59 ft.)
Half-peak diameter in meters (ft.)	0.6 (1.8)	1.1 (3.7)	1.7 (5.5)	2.2 (7.4)	2.8 (9.2)	3.4 (11.1)	3.9 (12.9)	4.5 (14.8)	5.1 (16.6)
Center illuminance in lux	3250	813	361	203	130	90	66	51	40
Center illuminance in candela	302	75	34	19	12	8	6	5	4

### MEDIUM DIFFUSER (24°)

Distance in meters (ft.)	2 m (7 ft.)	4 m (13 ft.)	6 m (20 ft.)	8 m (26 ft.)	10 m (33 ft.)	12 m (39 ft.)	14 m (46 ft.)	16 m (52 ft.)	18 m (59 ft.)
Half-peak diameter in meters (ft.)	0.9 (2.8)	1.7 (5.6)	2.6 (8.4)	3.4 (11.2)	4.3 (13.9)	5.1 (16.7)	6.0 (19.5)	6.8 (22.3)	7.0 (25.1)
Center illuminance in lux	1550	388	172	97	62	43	32	24	19
Center illuminance in candela	144	36	16	9	6	4	3	2	2

### WIDE DIFFUSER (50°)

Distance in meters (ft.)	2 m (7 ft.)	4 m (13 ft.)	5 m (16 ft.)	8 m (26 ft.)	10 m (33 ft.)	12 m (39 ft.)	14 m (46 ft.)	16 m (52 ft.)	18 m (59 ft.)
Half-peak diameter in meters (ft.)	2.0 (6.4)	3.9 (12.8)	5.9 (19.2)	7.8 (25.6)	9.8 (32.0)	11.7 (38.4)	13.7 (44.8)	15.6 (51.2)	17.6 (57.6)
Center illuminance in lux	400	100	44	25	16	11	8	6	5
Center illuminance in candela	37	9	4	2	1	1	1	1	0

### VERY WIDE DIFFUSER (60°)

Distance in meters (ft.)	2 m (7 ft.)	4 m (13 ft.)	6 m (20 ft.)	8 m (26 ft.)	10 m (33 ft.)	12 m (39 ft.)	14 m (46 ft.)	16 m (52 ft.)	18 m (59 ft.)
Half-peak diameter in meters (ft.)	2.3 (7.6)	4.6 (15.2)	6.9 (22.7)	9.2 (30.3)	11.5 (37.9)	13.9 (45.5)	16.2 (53.0)	18.5 (60.6)	20.8 (57.6)
Center illuminance in lux	300	75	33	19	12	8	6	5	4
Center illuminance in candela	28	7	3	2	1	1	1	0	0

### ASYMMETRIC DIFFUSER (54° x 16°)

Distance in meters (ft.)	2 m (7 ft.)	4 m (13 ft.)	6 m (20 ft.)	8 m (26 ft.)	10 m (33 ft.)	12 m (39 ft.)	14 m (46 ft.)	16 m (52 ft.)	18 m (59 ft.)
Half-peak diameter C <sub>0</sub> in meters (ft.)	2.0 (6.7)	4.1 (13.4)	6.1 (20.1)	8.2 (26.7)	10.2 (33.4)	12.2 (40.1)	14.3 (46.8)	16.3 (53.5)	18.3 (60.2)
Half-peak diameter C <sub>90</sub> in meters (ft.)	0.6 (1.9)	1.1 (3.8)	1.7 (5.6)	2.2 (7.5)	2.8 (9.4)	3.4 (11.3)	3.9 (13.2)	4.5 (15.0)	5.1 (16.9)
Center illuminance in lux	875	219	97	55	35	24	18	14	4
Center illuminance in candela	81	20	9	5	3	2	2	1	1

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SPEC SHEET

## DIMENSIONS

### 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.]

