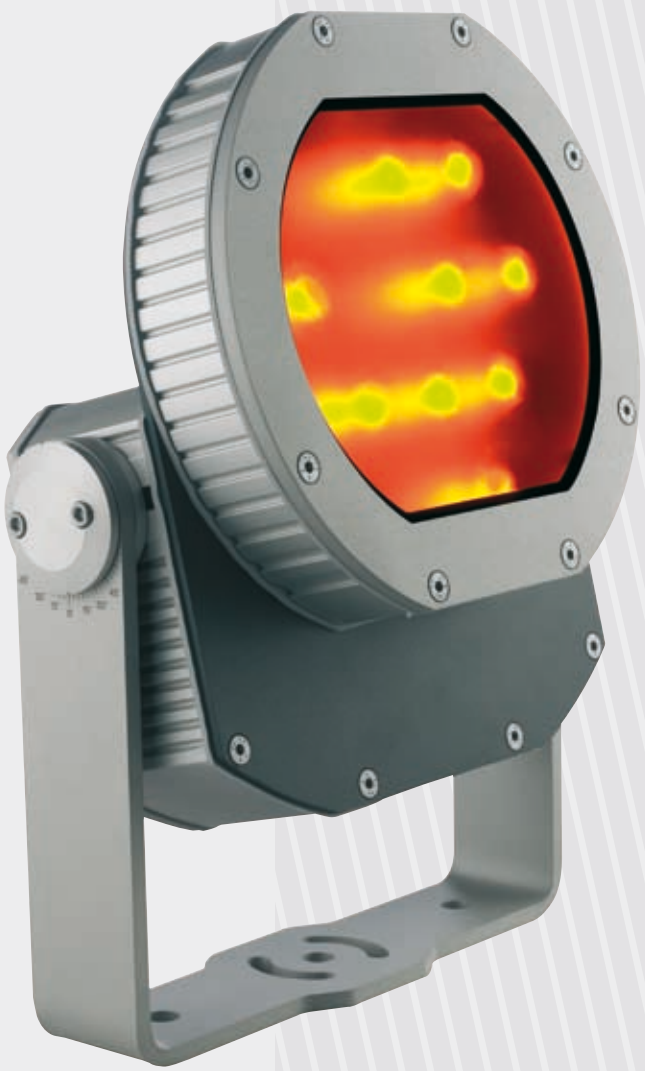
Martin

Exterior 200 LED™

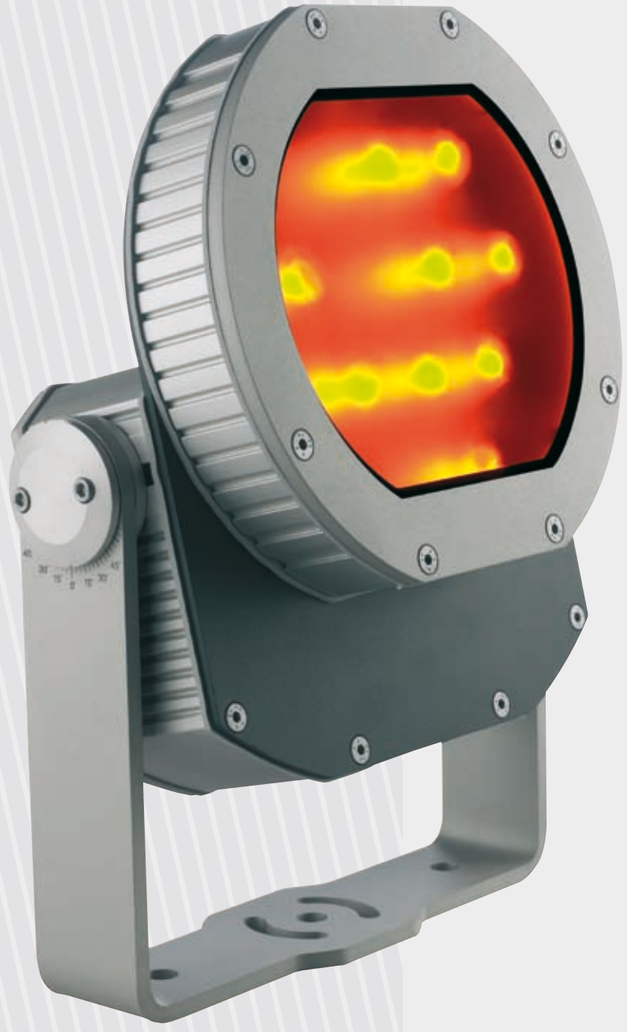


Exterior 200 LED™

The Exterior 200 LED is a long-life luminaire offering full RGB + Amber and White colour mixing, and weatherproofed for the dynamic illumination of facades, structures, water features and monuments

FEATURES

- 44 high power LEDs in five colours: Red, Green, Blue, Amber and White
- RGBAW colour mixing, offering a broader range of colours
- Choice of narrow, medium or wide diffuser options
- High optical performance and bright output
- Consistent colour with factory-calibrated pixels
- 0-100% intensity control
- Weatherproof rating of IP65
- DMX, stand-alone, synchronized (master/slave) control options
- Choice of DMX control modes: RGB, RGBAW, HSI, HSIC



CONSISTENT AND EVEN COLOURS

Martin set out to solve what has been one of the major drawbacks of LED lighting: colour consistency. A central feature is the ability to create even and consistent colours. Pixel boards for the Exterior 200 LED are individually measured and calibrated, guaranteeing standardized brightness and colour performance.

TRUE WHITE AND BETTER SATURATED COLOURS

With five coloured diodes (Red, Green, Blue, Amber and White) instead of the usual three, Martin is able to offer a broader and finer range of colours. While the amber helps extend the colour range and give effective colour temperature control, the white diode provides a better white light quality and the ability to create softer, subtler pastels.

0-100% INTENSITY CONTROL

The ability to dim a luminaire is appreciated by designers who want balance of brightness or the ability to allow structures and landscapes to respond intelligently to the availability of natural light.

10%

50%

100%

CHOICE OF BEAM ANGLES

The Exterior 200 LED is orderable with a choice of narrow, medium or wide beam options for use at distances between approximately two to six metres (6 to 20 ft). The lenses are also available as accessories allowing the luminaire to be reconfigured on site if necessary.

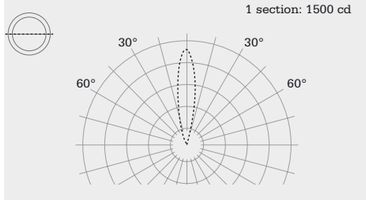
NARROW

MEDIUM

WIDE

NARROW LENS

21° beam angle

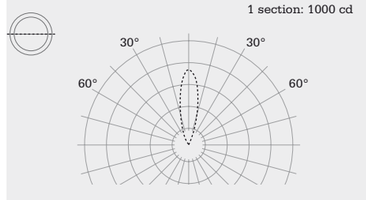


ft.	m	Ø50%	21°	E [lux]	E [fc]
3	1	0.4		8000	889
8	2.5	0.9		1280	125
16	5	1.9		320	31
25	7.5	2.8		142	13
33	10	3.7		80	7

Half-peak Ø: 0.37 × distance (m, ft)
Illuminance: 8000 / distance² (lux, fc)
Total Output: 1400 (lumens)

MEDIUM LENS

27° beam angle

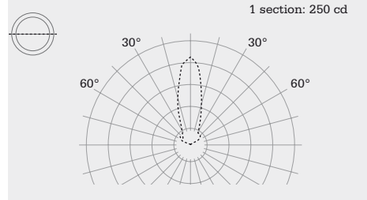


ft.	m	Ø50%	27°	E [lux]	E [fc]
3	1	0.5		4000	444
8	2.5	1.2		640	63
16	5	2.4		160	16
25	7.5	3.6		71	6
33	10	4.8		40	4

Half-peak Ø: 0.48 × distance (m, ft)
Illuminance: 4000 / distance² (lux, fc)
Total Output: 1300 (lumens)

WIDE LENS

32° beam angle



ft.	m	Ø50%	32°	E [lux]	E [fc]
3	1	0.6		1000	111
8	2.5	1.4		160	16
16	5	2.9		40	4
25	7.5	4.3		18	2
33	10	5.7		10	1

Half-peak Ø: 0.57 × distance (m, ft)
Illuminance: 1000 / distance² (lux, fc)
Total Output: 1000 (lumens)

EXTENDED LIFETIME AND PERFORMANCE

The lifetime and brightness of LEDs are dependent on the way the heat is removed from them. In order to ensure the best possible lumen performance, an internal fan monitors and regulates cooling. This heat management system extends the lifespan of diodes.

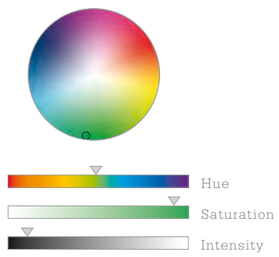
STAND-ALONE, PROGRAMMABLE VIEWS

The Exterior 200 LED offers the possibility of programming up to 20 views via the Multi Utility Manager (MUM), stored on the actual fixture. The different views can be triggered by timer or light sensor or synchronized (master/slave) with other fixtures.

WEATHERPROOFED FOR OUTDOORS

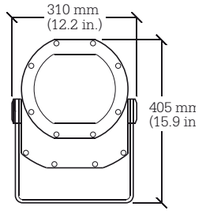
With a weatherproof IP65 rating the Exterior 200 LED is perfect for outdoor use, and operates flawlessly from -30 to +45 degrees Celsius. The fixture offers easy installation for applications that require a self-contained luminaire, for example pole mounting, and is also perfect for indoor applications.

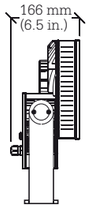
INTUITIVE COLOUR CONTROL



The Exterior 200 LED offers greater 'intuitive' control of colour, with four distinct control modes. In addition to RGB (three channel) and RGBAW (five channel) colour fine-tuning, HSI (Hue, Saturation, Intensity) lets you set the effect you want by scrolling through hues, altering their saturation and changing their intensity. HSI-C adds colour temperature control to the intuitive benefits of HSI.

Exterior 200 LED™





SPECIFICATION

PHYSICAL

Length: 166 mm (6.5 in.) including cable gland
Width: 310 mm (12.2 in.)
Height: 405 mm (15.9 in.)
Weight: 7.6 kg (16.8 lbs.) including bracket

DYNAMIC EFFECTS

Colour mixing: RGBAW
Red: 0 - 100%
Green: 0 - 100%
Blue: 0 - 100%
Amber: 0 - 100%
White: 0 - 100%

PHOTOMETRIC DATA

Light source: Luxeon K2 high power emitters
Total output (balanced white 5600 K): 1400 lm
Half-peak angle: 21° with narrow diffuser
Minimum LED source lifetime (to 50% of initial output level): 30.000 hours at full intensity

CONTROL AND PROGRAMMING

Colour control modes: RGBAW, RGB, HSI, HSIC
Control options: DMX, stand-alone, synchronized (master/slave)
DMX channels: 3, 4 or 5
DMX address setting: PC with Martin MUM software and DABS1 hardware interface
Stand-alone trigger options: Internal timer and/or ambient light level
Stand-alone and master/slave programming: PC with Martin MUM software and DABS1 hardware interface
26-bit control (internal): RGBAW, RGB, HSI, HSIC
Protocol: USITT DMX512-A
Receiver: RS-485
Firmware update: Serial upload via DMX link

CONSTRUCTION

Colour: Clear anodized, white, custom colours to special order
Housing: Anodized aluminium
Mounting bracket: 8 mm (0.3 in.) anodized aluminium
Front glass: 6 mm (0.2 in.) anti-reflection coated
Protection rating: IP65

INSTALLATION

Orientation: Any
Vertical aiming: 330°
Minimum distance to illuminated surfaces: 0.1 m (0.3 ft.)

ELECTRICAL

AC power: 100-240 V nominal, 50/60 Hz
Typical power consumption (at 100 V, 50/60 Hz): 139 W
Power supply unit: Integrated, auto-sensing multi-voltage
Main fuse: 2.5 AT (slow blow)

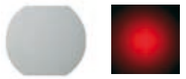
THERMAL

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 0° C (32° F)
Maximum surface temperature, steady state, Ta=40° C: 90° C (194° F)
Total heat dissipation (calculated, +/- 10%): 860 BTU/hr.

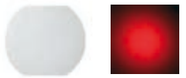
APPROVALS

EU safety: EN 60598-1, EN 60598-2-17, IEC/EN 60825-1
EU EMC: EN 55103-1, EN 55103-2, EN 61000-3-2, EN 61000-3-3
US safety: UL 1598
Canadian safety: CAN/CSA C.22.2 No. 250

ACCESSORIES



41600110
Narrow beam angle kit
(diffuser sheet)



41600111
Medium beam angle kit
(diffuser sheet)

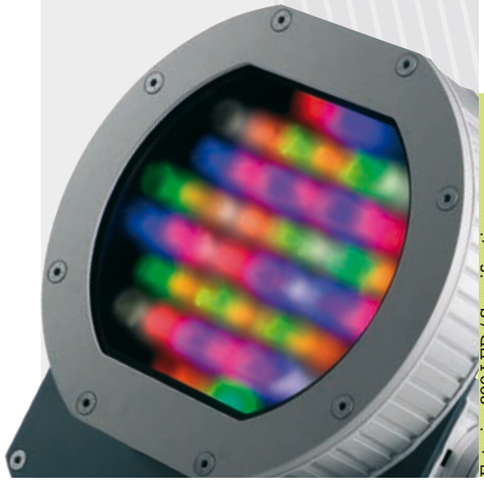
41600112
Wide beam angle kit
(diffuser sheet)

91611239
Safety eyebolt

91611305
Floor stand

91611306
3-pin male XLR connector,
cable-type, IP65

91611307
3-pin female XLR connector,
cable-type, IP65



Exterior 200 LED™

ORDERING

EXAMPLE SPECIFICATION

Exterior 200 LED, Surface Mounted, LED, IP65, RGBAW, Narrow, EU model, Aluminium

= Exterior 200 LED, Narrow, EU model

= 90545000

VARIABLES

Narrow Medium Wide No diffuser	EU model US model	Aluminium White

Exterior 200 LED, Aluminium

SPECIFICATION	CODE
Narrow	
EU model	**90545000**
US model	**90545100**
Medium	
EU model	**90545010**
US model	**90545110**
Wide	
EU model	**90545020**
US model	**90545120**
No diffuser	
EU model	**90545040**
US model	**90545140**

Exterior 200 LED, White

SPECIFICATION	CODE
Narrow	
EU model	**90545002**
US model	**90545102**
Medium	
EU model	**90545012**
US model	**90545112**
Wide	
EU model	**90545022**
US model	**90545122**
No diffuser	
EU model	**90545042**
US model	**90545142**

ABOUT MARTIN

Martin is headquartered in Aarhus, Denmark and represented in almost 100 countries around the world. On our website, you will find probably the most impressive list of references in the industry. With 1250 employees worldwide, solid financials, and a strong environmental and ethical focus at our global manufacturing facilities in Denmark, the United Kingdom, and China, Martin is one of the world's leading manufacturers of lighting solutions.

The Happy Factory, Denmark

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