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- 30 Exterior 200
- 38 Inground 200
- 48 **Cyclo IP65**
- 56 Cyclo IP65 Directional



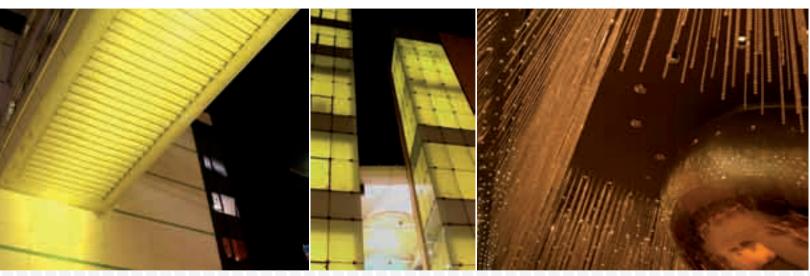




Toyota Station Pedestrian Bridge / Toyota City, Japan

Kururu Shopping Centre / Tokyo, Japan

Brulee: The Dessert Experience / New Jersey, USA



Martin Architectural is all about fresh ideas, offering a contemporary approach to architectural illumination through dynamic light.

Orange County Convention Centre / Orlando, USA

BT Tower / London, United Kingdom



The Palms Casino Resort / Las Vegas, USA

OUR PHILOSOPHY

Our involvement with theatre and stage lighting has taught us that designing with light is not just a question of lux and lumens. It taught us that light is also dynamic and magical, able to turn lifeless forms into luminous drama. In our approach to light, we have not forgotten the soft glow of dawn nor the stories told by light in the glass of Gothic cathedrals. Our desire is to continue to learn these lessons and apply them equally to the architectural stage.

OUR CLIENTS

Martin Architectural has worked in partnership with some of the world's leading architects and lighting designers across a range of challenging projects. Martin Architectural lighting solutions can be found the world over and span a wide range of applications: outdoor, retail & display, urban, corporate, bridges & structures, sport & leisure, hotels & hospitality, art & culture, health & wellness, landscapes, private residences and more. John Frost Bridge / Amhem, Holland

Toyota Stadium / Toyota City, Japan



MARTIN PEOPLE

Martin is at heart, a large group of highly skilled individuals, united in their passion to find the most innovative and unique solutions to the challenge of entertainmet and architectural lighting. As part of this process we realize the necessity of close communication and partnership with our markets, ensuring the relevance of our product portfolio through shared knowledge and ideas.

Porta Diagonal / Barcelona, Spain





AWARDS AND RECOGNITION

The Martin Group has been fortunate in the recognition it has received from the lighting industry, right from the very start. Martin Architectural has been no exception to this and continues to collect awards for excellence in service and product design.

- 2005 Lightfair: Inground 200 Best New Product of the Year
- 2002 **PLASA: ViroStation** Design Excellence
- 2001 LDI: ViroStation
- Sound Product of the Year, Most Promising Prototype 2000 Lightfair: MiniMAC
- Innovator Award and Roeder Award

DYNAMIC LIGHT

Light is by nature dynamic. Dynamic light - programmable light capable of reproducing the variety and drama found in nature - offers an expressive new medium for architectural projects. With careful command of brightness and colour, dynamic light allows architectural spaces to adapt to changing client needs or shifts in season and climate. Martin Architectural offers an excellent line of dynamic architectural lighting solutions, inviting you to investigate the role of luminous colour and its ability to shape the world. Spinnaker Tower / Portsmouth, UK

Sony Centre / Berlin, Germany





OUR FACTORY

Martin has four production plants located in Denmark, England and China, making the Martin Group one of the world's leading manufacturers of lighting equipment. Our largest facilities are located in Denmark. Inspired architecturally by the concert halls and stages we illuminate around the world, our newest factory is a high-tech, 12,500 square-metre facility geared towards the production of innovative lighting. Torre Agbar Auditorium / Barcelona, Spain

De Canapé / Gent, Belgium



MOA Museum of Art / Atami City, Japan

SERVICE

Martin Global Services offers the highest level of service in our industry today. Installation as well as on-site service and maintenance can be provided worldwide by the Martin Global Service organization and its authorized agents. The Martin service agreement gives owners access to Martin's expertise and product knowledge in a partnership that will ensure the highest level of performance throughout the product's lifetime.

WORKING WITH MARTIN ARCHITECTURAL

The Martin Architectural head office is located in Aarhus, Denmark, in one of the world's most renowned regions for design. The Martin family includes over 1000 employees. Whatever language of light you speak, we know someone you can talk to. Martin's worldwide distributor network guarantees immediate product availability and support. With our international partners in over 90 countries, we form our industry's most complete and capable distribution network.

Exterior 1200

Range of 1200 W luminaires designed for spectacular illumination of high-rise structures, bridges and landmark architecture.

FEATURES

- 1200 W metal halide lamp
- Seamless CMY colour mixing for thousands of creative possibilities
- 0-100% intensity control
- High optical performance: uniform distribution of light and colour
- Full range of optical systems: narrow, medium, wide or very wide
- Dynamic zoom for variable beam angles: 7°- 19° / 12°- 29°
- Gobo options for projecting graphic images and animated effects
- Weatherproof rating: IP65
- DMX, stand-alone, synchronized (master/slave)
- On-board address setting: no extra devices required











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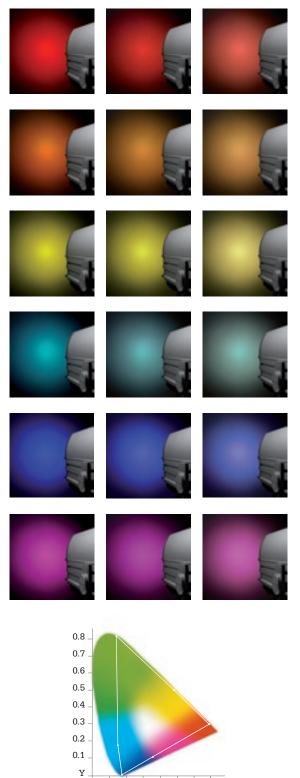
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LIMITLESS CHOICE OF COLOURS

The Exterior 1200 offers endless creative possibilities. With full colour mixing, the CMY system blends the primary colours Cyan, Magenta and Yellow to achieve a full spectrum of luminous colours. These colours, variable in hue and saturation, can be programmed to shift smoothly from shade to shade to create truly dynamic architecture. Further colour options are also provided on a four-colour wheel.



X 0.1 0.2 0.3 0.4 0.5 0.6 0.7

With the CMY system, the Exterior 1200 can create all the colours in the triangle above.

0-100% INTENSITY CONTROL

The ability to dim metal halide 0-100% 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.

0%

20%





40%

60%

80%

100%





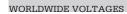




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DISPLAY AND INTERFACE

An on-board LCD display allows diagnosis of service factors such as lamp life and other critical information. Manual control and addressing can also be performed through the display without the need for other peripheral devices.



Through easy re-tapping the Exterior 1200 is compatible with all voltages from 200/208/220/230/240/250/277 V, 50/60 Hz.







OPTICAL AIMING

A fully adjustable bracket allows the luminaire to be mounted and aimed from any position.



QUICK RE-LAMPING

A convenient slide-out lamp assembly provides easy access for quick re-lamping.









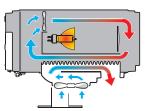
EASY INSTALLATION

Four detachable eyebolts are included to aid with lifting and installation.



HEAT EXCHANGER COOLING

A unique cooling system ensures the luminaire is reliable in even the hottest climates. Sealed air is circulated through a heat exchanger and cooled, ensuring safe operating temperatures while keeping dust and pollutants out.





Projecting textures and images using metal or glass pattern discs, (referred to as gobos) is a technique derived from the theatre to tell a story. The technique can equally be applied to the architectural stage to deliver a message or create animated images.

IMAGE PROJECTION

Urban spaces need night-time narratives to create environments with emotional impact. The Exterior 1200 Image Projector provides drama with illuminated textures and animated effects such as refl ected water, ripples, flames, clouds, rain and snow.





A utilitarian water tower is transformed into a dramatic piece of architecture with an animated, water effect.

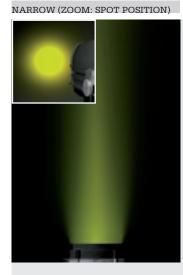




OPTICAL SYSTEMS

A full range of optical systems from spot to flood allows for accurate and even illumination of large surfaces. Ellipsoidal beam shapers and other optical accessories provide optical control for pin-point illumination of columns, pylons and very tall structures.

NARROW (ZOOM: FLOOD POSITION)



7° beam angle

m	Ø50%	7 °	E [lux]
10	1.2		15330
25	3.0		2453
50	6.0		613
75	9.0		273
100	12.0		153

Efficiency: 31% Half-peak Ø: 0.12 × distance (m) Illuminance: 1533000 / distance² (lux) Total Output: 28900 (lumens)

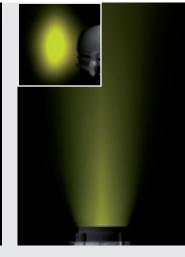
19° beam angle

m	Ø50%	9°	E [lux]
10	3.4		3320
25	8.5		531
50	17.0		133
75	25.5		59
100	34.0		33

Efficiency: 32% Half-peak Ø: 0.34 × distance (m) Illuminance: 332000 / distance² (lux)

Total Output: 29000 (lumens)

All photometric data is available electronically from www.martin.com/service



NARROW + BEAM SHAPER

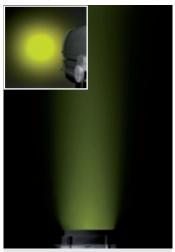
9° × 19° beam angle

	Ø50%			
m	C ₀	C ₉₀	9° 19°	E [lux]
10	1.6	3.4	A	10000
25	4.0	8.5		1600
50	8.0	17.0		400
75	12.0	25.5		178
100	16.0	34.0		100

Efficiency: 28%

 $Half-peak \oslash C_0: 0.16 \times distance (m) \\ Half-peak \oslash C_{g0}: 0.34 \times distance (m) \\ Illuminance: 1000000 / distance² (lux) \\ Total Output: 26010 (lumens)$

MEDIUM (ZOOM: SPOT POSITION)



12° beam angle

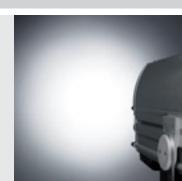
m	Ø50%	12°	E [lux]
10	2.1		3110
25	5.2		498
50	10.5		124
75	15,7		55
100	21.0		31

Efficiency: 20%

Half-peak Ø: 0.21 × distance (m) Illuminance: 311000 / distance² (lux) Total Output: 18300 (lumens)

DYNAMIC ZOOM

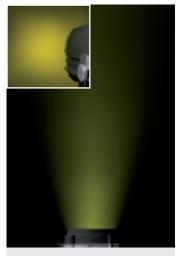




Narrow and Medium models provide designers with a variable zoom and the possibility of varying beam angles from 7° to 19° or 12° to 29°. This offers the flexibility of re-focusing on-site in order to achieve a perfect distribution of light and colour.

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MEDIUM (ZOOM: FLOOD POSITION)

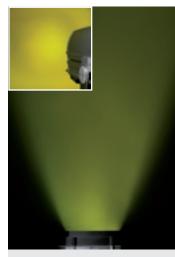


29° beam angle

m (Ø50%	29°	E [lux]
10	5.5	<u> </u>	830
25	13.7		133
50	27.5		33
75	41.2		15
100	55.0		8

Efficiency: 28%

Half-peak Ø: 0.55 × distance (m) Illuminance: 83000 / distance² (lux) Total Output: 26000 (lumens) WIDE



42° beam angle

m	Ø50%		42°	E [lux]
10	9.0	/	V	680
25	22.5			109
50	45.0			27
75	67.5		Ì	12
100	90.0	/	***	7

Efficiency: 33% Half-peak Ø: 0.9 × distance (m) Illuminance: 68000 / distance² (lux) Total Output: 30100 (lumens)





42° beam angle



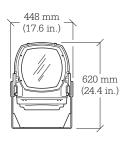
Efficiency: 33% Half-peak Ø: 0.9 × distance (m) Illuminance: 43000 / distance² (lux) Total Output: 30000 (lumens)

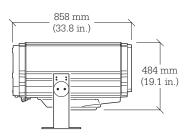
TRUE WEATHER PROTECTION



The Exterior 1200's IP65 design guarantees reliable operation in harsh, weather-beaten environments. An efficient cooling system ensures the luminaire is reliable in even the hottest climates. It is also suitable for marine and saline environments such as cruise ships and bridges and has been windload tested, an important factor for tower installations.

Exterior 1200







Orientation: Any (air intake must face down)

SPECIFICATION

PHYSICAL

Length: 858 mm (33.8 in.) Width including mounting yoke: 448 mm (17.6 in.) Height including mounting yoke: 620 mm (24.4 in.) Weight: 68 kg (149.9 lbs.)

LAMP

Type: 1200 W metal halide Approved lamps: Philips MSD 1200 Lamp socket: G22 Control: Automatic and/or remote on/off

DYNAMIC EFFECTS

Colour mixing: Full spectrum CMY Cyan: 0 - 100% Magenta: 0 - 100% Yellow: 0 - 100% Colour wheel: Red, green, blue, CTC (as standard) + open positions Dimmer: 0 - 100% Zoom: 7° - 19° / 12° - 29°

CONTROL AND PROGRAMMING

Control options: DMX, stand-alone, synchronized (master/slave) DMX channels: 8 Stand-alone trigger options: Internal timer and/or ambient light level Stand-alone memory: 20 scenes

CONSTRUCTION

Housing: Aluminium Finish: Clear anodized Front glass: 6 mm (0.2 in.) anti-reflection coated Protection factor: UL wet location, main enclosure designed to IP65

INSTALLATION

Orientation: Any (air intake must face down) Minimum distance to combustible materials: 1 m (3.3 ft.)Minimum distance to illuminated surfaces: 1 m (3.3 ft.)

ELECTRICAL

AC power: 200/208/220/230/240/250/277 VAC, 50/60 Hz Main fuse: 15 AT (slow blow) Ballast: Magnetic

THERMAL

Maximum ambient temperature (Ta): 45° C (113° F) Maximum surface temperature, steady state, Ta=45° C: 70° C (158° F) Cooling: Forced air, integrated air/air heat exchanger, IP65 barrier

APPROVALS

EU EMC: EN 55 015, EN 55 103-1, EN 61 000-3 EU safety: EN 60598-1, EN 61347-1 Canadian safety (pending): CSA C22.2 No. 250.0-00 US safety (pending): UL 1598



ACCESSORIES



91610081 Beam shaper lens



91611257 Snoot/barndoor extensions kit



91611258 5500 - 4200 K CTC kit



Exterior 1200 ORDERING

EXAMPLE SPECIFICATION

Exterior 1200 Wash, Surface Mounted, Projector, IP65, Metal Halide, 1200 W, CMY, Narrow, 7-19°,

= Exterior 1200, Wash, Narrow

= 90504010







Exterior 1200 Image Projector

0

Exterior 1200 Wash

CODE SPECIFICATION

Exterior 1200 Wash, Narrow 90504010 Exterior 1200 Wash, Medium 90504020 Exterior 1200 Wash, Wide 90504030 Exterior 1200 Wash, Very Wide 90504040 SPECIFICATION Exterior 1200 Image Projector

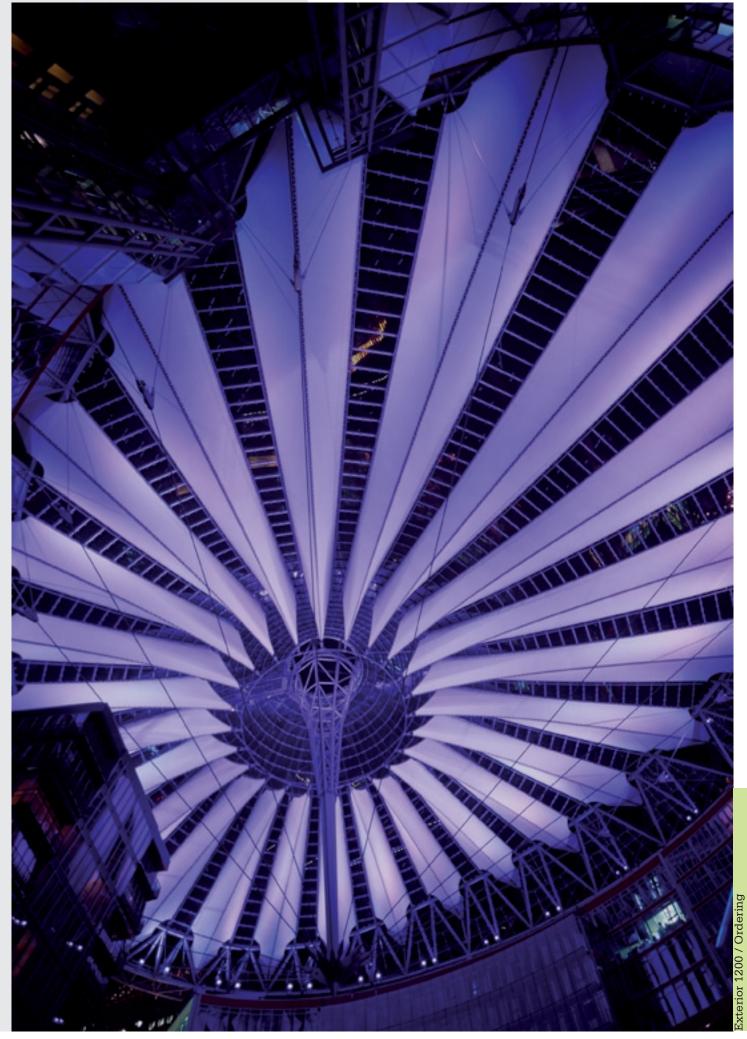
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Consult Martin Architectural

for further details

CODE

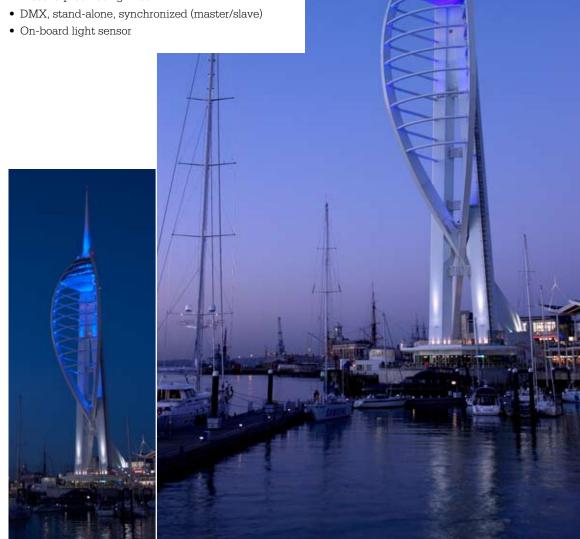


Exterior 600

The leading 575 W intelligent luminaire, designed for dynamic and creative illumination of the built and natural environments

FEATURES

- 575 W luminaire for dynamic illumination of facades and weather-beaten environments
- 575 W metal halide lamp
- Seamless CMY colour mixing
- 0-100% intensity control
- High optical performance: uniform distribution of light and colour
- Full range of optical systems: very narrow, narrow, medium, wide or very wide
- Dynamic zoom for variable beam angles: 9°-12° / 11°-27°
- Ellipsoidal beam shaping and frost filter options
- Weatherproof rating: IP65



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FULL SPECTRUM CMY COLOUR MIXING

The Exterior 600 offers endless creative possibilities. With full colour mixing, the CMY system blends the primary colours Cyan, Magenta and Yellow to achieve a full sprectrum of luminous colours. These colours, variable in hue and saturation, can be programmed to shift smoothly from shade to shade to create truly dynamic architecture.

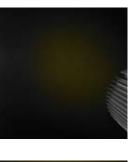


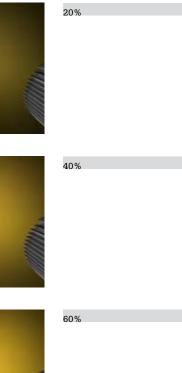
With the CMY system, the Exterior 600 can create all the colours in the triangle above.

0-100% INTENSITY CONTROL

The ability to dim metal halide 0-100% 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%



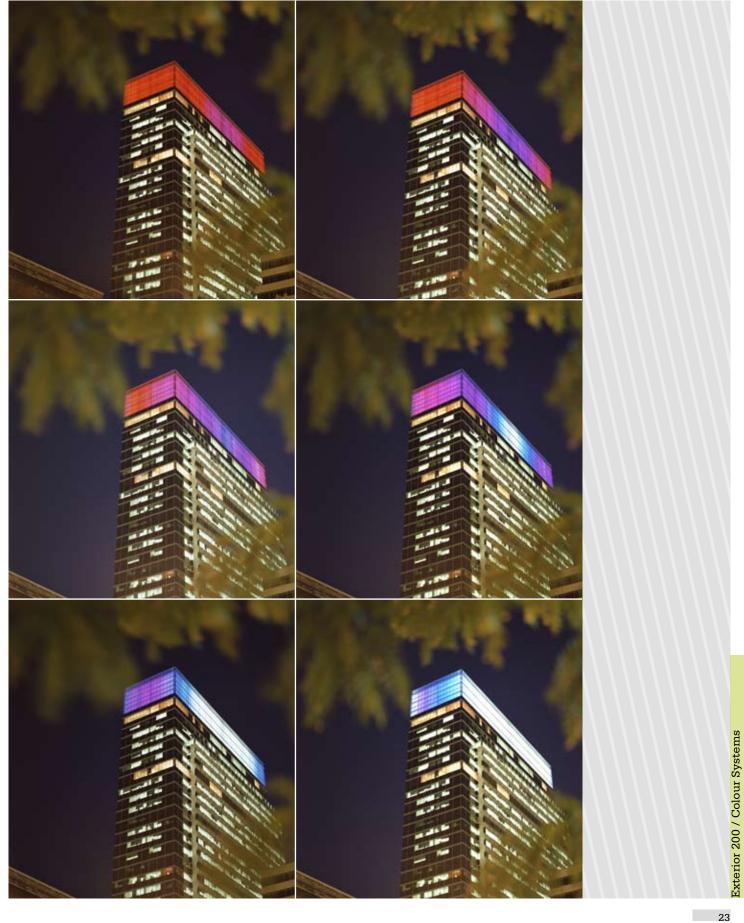


80%

100%

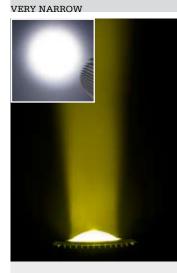


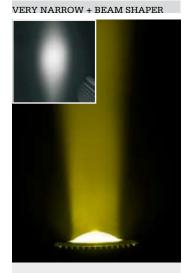




OPTICAL SYSTEMS

A full range of optical systems from narrow to very wide provides designers with several options for achieving even and accurate illumination of façades and structures. Ellipsoidal beam shapers and other optical accessories provide optical control for pin-point illumination of columns, pylons and very tall structures.





8° beam angle

12° × 22° beam angle

9° beam angle

60°

m Ø50%

10 20 3.1

30 4.7

50 7.9

0.8 5

1.6

309

1. section: 150000 cd

60°

E [lux] 27812

6953

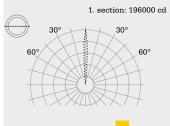
1738

773 278

309

NARROW (ZOOM: SPOT POSITION)

12° beam angle



m (E [lux]		
10	1.4		9786
25	3.5		1566
50	7.0		391
75	10.5		174
100	14.0		98

Efficiency: 43%

Half-peak Ø: 0.14 × distance (m) Illuminance: 978603 / distance² (lux) Total Output: 20940 (lumens)

1. section: 30000 cd 30 309 60 60

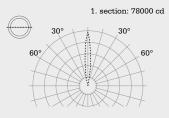
	Ø	50%		
m	C ₀	C ₉₀	12° 22°	E [lux]
5	1.1	1.9	A	5633
10	2.1	3.9		1408
20	4.2	7.8		352
35	6.3	11.7		156
50	10.5	19.4		56

Efficiency: 38%

Half-peak $Ø C_0: 0.21 \times distance (m)$ Half-peak $Ø C_{qo}$: 0.39 × distance (m) Illuminance: 140821 / distance² (lux) Total Output: 18435 (lumens)

Efficiency: 46%

Half-peak Ø: 0.16 × distance (m) Illuminance: 695290 / distance² (lux) Total Output: 22555 (lumens)



NARROW (ZOOM: FLOOD POSITION)

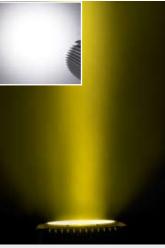
m	Ø50%	12°	E [lux]
5	1.1		14860
10	2.1		3715
20	4.2		929
30	6.3		413
50	10.5		149

Efficiency: 47% Half-peak Ø: 0.21 × distance (m) Illuminance: 371493 / distance² (lux) Total Output: 23133 (lumens)

All photometric data is available electronically from www.martin.com/service

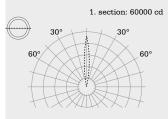
MEDIUM (ZOOM: SPOT POSITION)

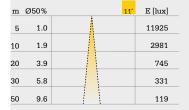




MEDIUM (ZOOM: FLOOD POSITION)

11° beam angle





Efficiency: 40%

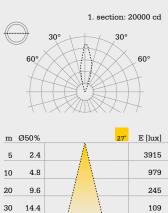
Half-peak Ø: 0.19 × distance (m) Illuminance: 298115 / distance² (lux) Total Output: 19686 (lumens)

WEATHERPROOF RATING: IP65





27° beam angle



Efficiency: 41%

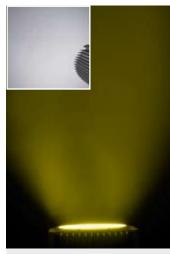
24.0

50

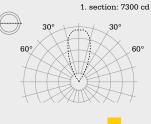
Half-peak Ø: $0.48 \times \text{distance}$ (m) Illuminance: 97883 / distance² (lux) Total Output: 20296 (lumens)

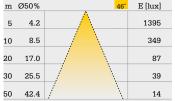
A sturdy IP65 construction guarantees reliable operation in harsh, weather-beaten environments. Designed for all climates, the Exterior 600 is also suitable for marine and saline environments such as cruise ships and bridges.

WIDE



46° beam angle





Efficiency: 43%

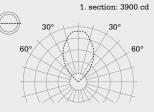
39

Half-peak Ø: 0.85 × distance (m) Illuminance: 34871 / distance² (lux) Total Output: 21240 (lumens)

VERY WIDE



65° beam angle



m Ø50% E [lux] 728 5 6.4 12.7 182 10 20 25.5 46 20 30 38.2 7 63.7 50

Efficiency: 41%

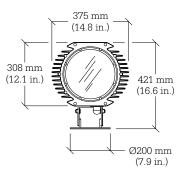
Half-peak Ø: 1.27 x distance (m) Illuminance: 18206 / distance² (lux) Total Output: 20096 (lumens)

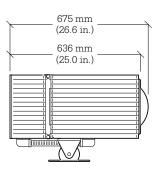


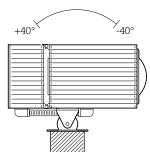




Exterior 600







Vertical aiming (pedestal mounted): +/- 40°

SPECIFICATION

PHYSICAL

Length: 636 mm (25.0 in.) Width: 375 mm (14.8 in.) Height: 421 mm (16.6 in.) Weight: 48 kg (105.8 lbs.)

LAMP

Type: 575 W metal halide Approved lamps: Philips MSD 575 1CT, Osram HSD 575 Lamp socket: GX 9.5 Control: Automatic and/or remote on/off

DYNAMIC EFFECTS

Colour mixing: Full spectrum CMY Cyan: 0 - 100% Magenta: 0 - 100% Yellow: 0 - 100% Colour wheel: Red, green, blue, CTC (as standard) + open positions Dimmer: 0 - 100% Shutter: Strobe effect variable up to 8 Hz Frost: On/off Zoom: 9° - 12° / 11° - 27° Beam shaper: +/- 45° from vertical

CONTROL AND PROGRAMMING

Control options: DMX, stand-alone, synchronized (master/slave) DMX channels: 8/9 Stand-alone trigger options: Internal timer with light level sensor Stand-alone memory: 20 scenes

CONSTRUCTION

Housing: Aluminium Finish: Clear anodized Mounting bracket: 6 mm (0.2 in.) stainless steel Front glass: 6 mm (0.2 in.) anti-reflection coated (except 12° and 100° models) Protection factor: IP 65

INSTALLATION

Orientation: Any Horizontal aiming: +/- 25° Vertical aiming (pedestal mounted): +/- 40° Minimum distance to combustible materials: 1 m (3.3 ft.) Minimum distance to illuminated surfaces: 1 m (3.3 ft.)

ELECTRICAL

AC power: 208 V, 60 Hz / 230 V, 50 Hz / 245 V, 50 Hz / 277 V, 60 Hz

THERMAL

Maximum ambient temperature (Ta): 40° C (104° F) Maximum surface temperature, steady state, Ta=40° C: 80° C (176° F) Cooling: Convection

APPROVALS

EU EMC: EN 55 015, EN 55 103-1, EN 61 547 EU safety: EN 60598-2-3, EN 60598-2-5 Canadian safety: CSA C22.2 No. 166 US safety: UL1573, 4th Edition



ACCESSORIES





91610028 12° × 22° beam shaper (with very narrow model only) Ideal for illuminating columns, pylons and tall structures



91611029 Snoot/barndoor kit



91611036 5500 - 4200 K CTC kit



91611030 Snoot/barndoor extensions kit



91611239 Safety eyebolt





Exterior 600 ORDERING

EXAMPLE SPECIFICATION

Exterior 600, Surface Mounted, Projector, IP65, Metal Halide, 575 W, CMY, DMX, Narrow, 9-12°, 208 V, 60 Hz

= Exterior 600 CMY, 12°, 208 V, 60 Hz

= 90505044

VARIABLES

Very Narrow, 8°	208 V, 60 Hz
Narrow, 9-12°	230 V, 50 Hz
Medium, 11-27°	245 V, 50 Hz
Wide, 46°	277 V, 60 Hz
Very Wide, 65°	



\bigcirc	Exterior 600	
	SPECIFICATION	CODE
Å	Very Narrow, 8° 12°, 208 V, 60 Hz 12°, 230 V, 50 Hz 12°, 245 V, 50 Hz 12°, 277 V, 60 Hz	90505024 90505020 90505022 90505026
	Narrow, 9-12° 18-25°, 208 V, 60 Hz 18-25°, 230 V, 50 Hz 18-25°, 245 V, 50 Hz 18-25°, 277 V, 60 Hz	90505044 90505040 90505042 90505046
	Medium, 11°-27° 22-38°, 208 V, 60 Hz 22-38°, 230 V, 50 Hz 22-38°, 245 V, 50 Hz 22-38°, 277 V, 60 Hz	
	Wide, 46° 65°, 208 V, 60 Hz 65°, 230 V, 50 Hz 65°, 245 V, 50 Hz 65°, 277 V, 60 Hz	90505064 90505060 90505062 90505066
	Very Wide, 65° 100°, 208 V, 60 Hz 100°, 230 V, 50 Hz 100°, 245 V, 50 Hz 100°, 277 V, 60 Hz	90505084 90505080 90505082 90505086





Location: Deutsche Post, Bonn, Germany / Architect: Helmut Jahn, Murphy/Jahn Inc. Designer: Michael Rohde, L-Plan / Light Art: Yann Kersalø



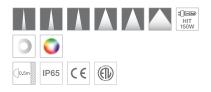
Exterior 200

Programmable 150 W luminaires weatherproofed for dynamic illumination of façades, structures, water features and monuments.

FEATURES

- Intelligent 150 W luminaire weatherproofed for dynamic illumination of outdoor environments
- 150 W metal halide lamp
- Seamless CMY colour mixing
- 0-100% intensity control
- High optical performance: uniform distribution of light and colour
- Full range of optical systems: very narrow, narrow, medium, wide or very wide
- Ellipsoidal beam shaping options
- Weatherproof rating: IP65
- DMX, stand-alone, synchronized (master/slave)
- On-board light sensor









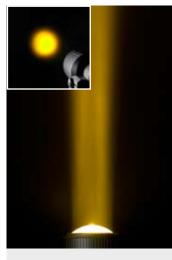


Exterior 200 / Features

OPTICAL SYSTEMS

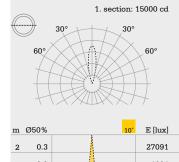
A full range of optical systems from very narrow to very wide provides versatility and accuracy in highlighting specific features or exact areas on a structure.

VERY NARROW



10° beam angle





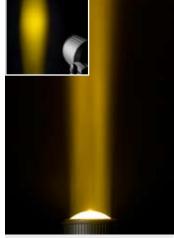
5 0.9 4334 10 1.7 1084 15 2.6 482 20 3.5 271

Efficiency: 28%

Half-peak Ø: 0.17 × distance (m) Illuminance: 108362 / distance² (lux) Total Output: 3909 (lumens)

All photometric data is available electronically from www.martin.com/service

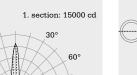
VERY NARROW + BEAM SHAPER



8° × 16° beam angle

30

60



	Ø5	0%		
m	C ₀	C ₉₀	8° 16°	E [lux]
2	0.3	0.6	A	11425
5	0.7	1.4		1828
10	1.4	2.8		457
15	2.1	4.2		203
20	2.8	5.6		114

Efficiency: 25%

Half-peak $Ø C_0: 0.14 \times distance (m)$ Half-peak Ø C_{90} : 0.28 × distance (m) Illuminance: 45700 / distance² (lux) Total Output: 3505 (lumens)

Efficiency: 31%

1.3

3.9

2 0.5

5

10 2.6

15

20 5.3

15° beam angle

30

1. section: 4000 cd

3Uo

60°

E [lux]

16848

2696

674

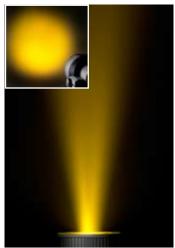
300

168

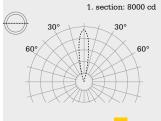
NARROW

Half-peak Ø: 0.26 × distance (m) Illuminance: 67392 / distance² (lux) Total Output: 4338 (lumens)

MEDIUM

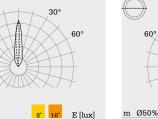


21° beam angle

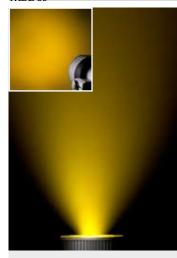


m	Ø50%	21°	E [lux]
2	0.7	Å	9433
5	1.9		1509
10	3.7		377
15	5.6		168
20	7.4		94

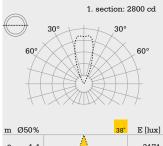
Efficiency: 38% Half-peak Ø: 0.37 × distance (m) Illuminance: 37731 / distance² (lux) Total Output: 5246 (lumens)



WIDE 38°



38° beam angle





Efficiency: 39%

Half-peak Ø: 0.69 × distance (m) Illuminance: 12684 / distance² (lux) Total Output: 5397 (lumens)

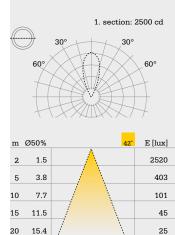
WEATHERPROOF RATING: IP65



WIDE 42°



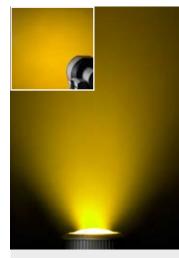
42° beam angle



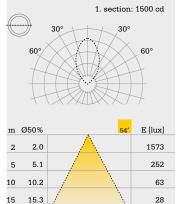
Efficiency: 40%

Half-peak Ø: 0.77 × distance (m) Illuminance: 10078 / distance² (lux) Total Output: 5526 (lumens)

An ability to withstand dust and low pressure jets of water from all directions allows total flexibility in mounting options. VERY WIDE



54° beam angle



Efficiency: 43%

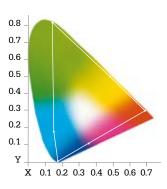
20.4

20

Half-peak Ø: 1.02 × distance (m) Illuminance: 6291 / distance² (lux) Total Output: 5993 (lumens)

16

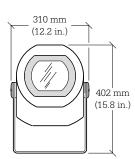
FULL SPECTRUM CMY SYSTEM

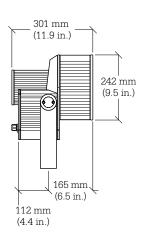


The most advanced and versatile solution, the CMY colour system blends the primary colours Cyan, Magenta and Yellow to create a virtually limitless spectrum of luminous colours. For a beautiful effect, these colours can be programmed to shift smoothly from one shade to another.

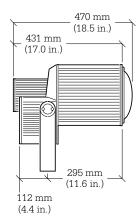
With the CMY system, the Exterior 200 can create all the colours in the triangle.

Exterior 200

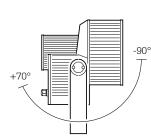




Exterior 200







Vertical aiming +70°/-90°

SPECIFICATION

PHYSICAL

 $\begin{array}{l} \mbox{Length: 301 mm (11.9 in.)} \\ \mbox{Width: 310 mm (12.2 in.)} \\ \mbox{Height: 402 mm (15.8 in.)} \\ \mbox{Weight: 15 kg (33.1 lbs.)} \\ \mbox{Length (10° and 15° models): 431 mm (17.0 in.)} \\ \mbox{Width (10° and 15° models): 310 mm (12.2 in.)} \\ \mbox{Height (10° and 15° models): 402 mm (15.8 in.)} \\ \mbox{Weight (10° and 15° models): 16.6 kg (36.6 lbs.)} \\ \end{array}$

LAMP

Type: 150 W metal halide Approved lamps: Philips CDM-SA/T 150, GE CMH 150, Osram HSD 150/70 Lamp socket: G12 Control: Automatic and/or remote on/off

DYNAMIC EFFECTS

Colour mixing: Full spectrum CMY Cyan: 0 - 100% Magenta: 0 - 100% Yellow: 0 - 100% Dimmer: 0 - 100%

CONTROL AND PROGRAMMING

Control options: DMX, stand-alone, master/slave DMX channels: 7 Stand-alone trigger options: Internal timer and/or ambient light level Stand-alone memory: 20 scenes

CONSTRUCTION

Housing: Aluminium Finish: Clear anodized Mounting bracket: 8 mm (0.3 in.) anodized aluminium Front glass: 6 mm (0.2 in.) anti-reflection coated Protection factor: IP 65

INSTALLATION

Orientation: Any Horizontal aiming: +/-45° Vertical aiming: +70°/-90° Minimum distance to combustible materials: 1 m (3.3 ft.) Minimum distance to illuminated surfaces: 0.5 m (1.6 ft.)

ELECTRICAL

AC power: 208 V, 60 Hz / 230 V, 50 Hz / 245 V, 50 Hz

THERMAL

Maximum ambient temperature (Ta): 40° C (104° F) Maximum surface temperature, steady state, Ta=40° C: 90° C (194° F) Cooling: Convection

APPROVALS

EU EMC: EN 55 015, EN 55 103-1, EN 61 547 EU safety: EN 60598-2-3, EN 60598-2-5 Canadian safety: CSA C22.2 No. 166 US safety: UL1573, 4th Edition



ACCESSORIES





91610028 8° × 16° beam shaper lens for very narrow option Ideal for illuminating columns, pylons and tall structures



91611031 Snoot/barndoor kit



91611032 Snoot/barndoor extensions kit



91611239 Safety eyebolt





Exterior 200 ORDERING

EXAMPLE SPECIFICATION

Exterior 200, Surface Mounted, Projector, IP65, Metal Halide, 150 W, CMY, DMX, <mark>Medium, 21°,</mark> 208 V, 60 Hz

= Exterior 200, 34°, 208 V, 60 Hz

= 90509048

VARIABLES

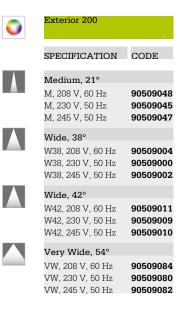
Exterior 200 Long Barrel	Very Narrow, 10° Narrow, 15°	208 V, 60 Hz 230 V, 50 Hz		
Exterior 200	Medium, 21° Wide, 38° Wide, 42° Very Wide, 54°	245 V, 50 Hz		

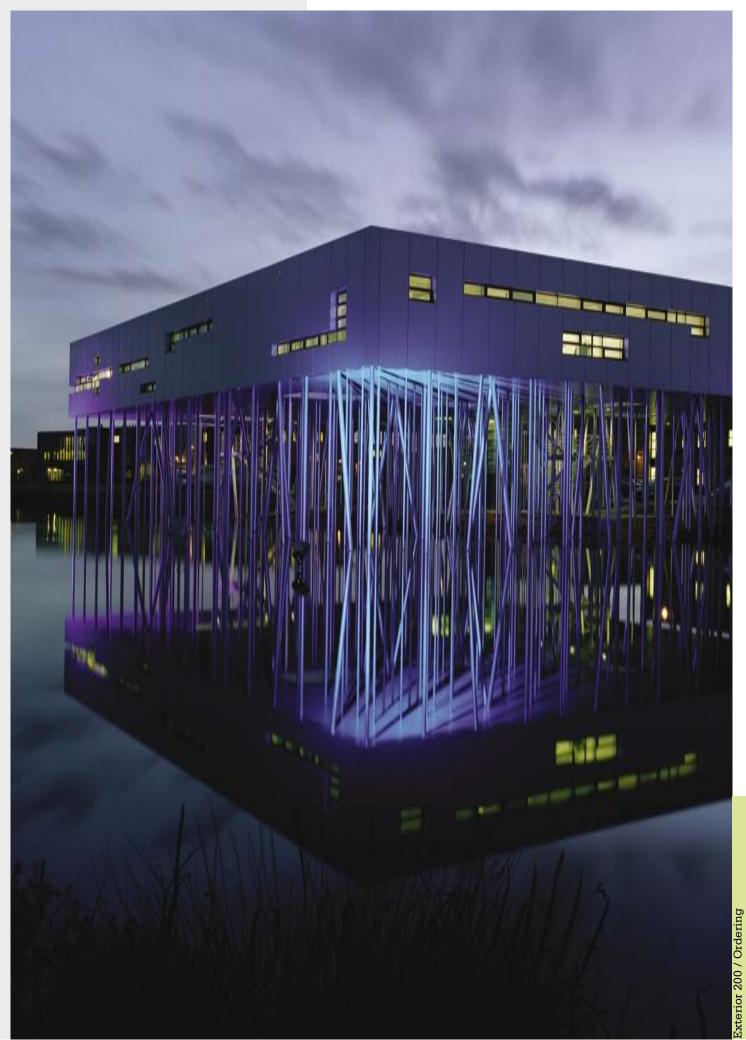


0

Exterior 200 Long	Barrel
SPECIFICATION	CODE
Very Narrow, 10°	
VN, 208 V, 60 Hz	9050902
VN, 230 V, 50 Hz	9050902
VN, 245 V, 50 Hz	9050902
Narrow, 15°	
N, 208 V, 60 Hz	9050904
N, 230 V, 50 Hz	9050904
N, 245 V, 50 Hz	9050904







Inground 200

The benefits of dynamic light and discreet buried installation combined in a simple, easy-to-use system of programmable 150 W luminaires.

FEATURES

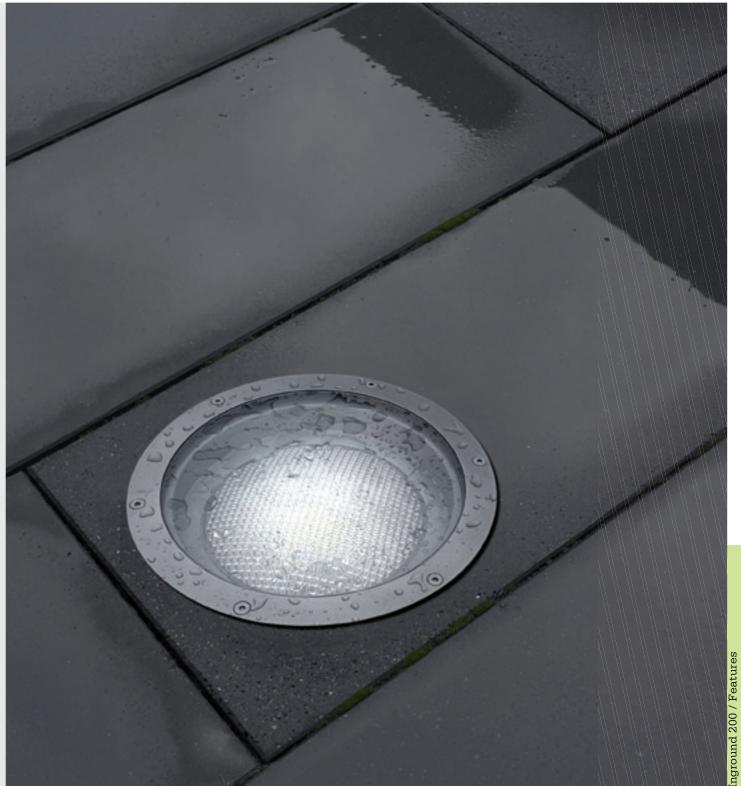
- Buried uplight for dramatic illumination of facades, landscapes or interiors
- 150 W metal halide lamp
- Choice of 3 colour systems: Single-colour, 6-colour or Full Spectrum CMY
- 0-100% intensity control
- High optical performance: uniform distribution of light and colour
- Choice of optical systems: medium, wide, very wide or wallwash
- Weatherproof rating: IP65 and IP67
- Full drive-over capability
- Low surface temperature for installation in pedestrian areas
- Extensive range of optical accessories
- DMX, stand-alone, synchronized (master/slave)





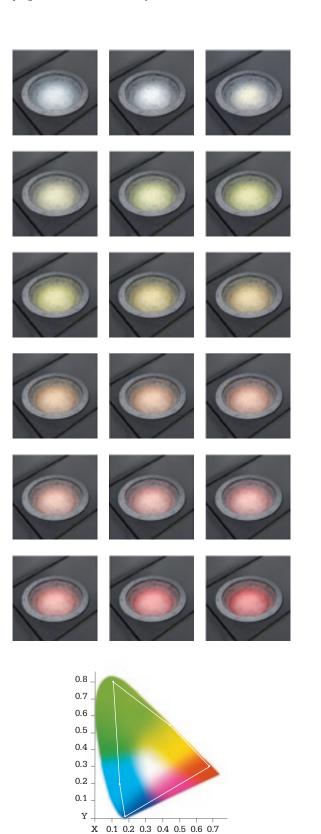






FULL SPECTRUM CMY SYSTEM

The most advanced and versatile solution, the CMY colour system blends the primary colours Cyan, Magenta and Yellow to create a virtually limitless spectrum of luminous colours. For a beautiful effect, these colours can be programmed to shift smoothly from one shade to another.



With the CMY system, the Inground 200 can create all the colours in the triangle above.

0-100% INTENSITY CONTROL

The unique ability to dim metal halide 0-100% 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.



20%

40%

60%

10%









80%

100%

What's your favourite colour?

SINGLE COLOUR SYSTEM

The simplest means to creating a colourful lighting scheme, the single colour system lets you choose a single static colour from our collection of forty dichroic filters or have your own special colour customized.

SIX COLOUR SYSTEM

The 6-colour system is a programmable colour-changing system for dynamic lighting applications. It offers a selectable palette of up to six colours. Choose one of our ready-made colour schemes or consult us to create your own. A palette of five primary colours is included as standard.

nground 200 / Colour Systems

SPOTLESS ILLUMINATION

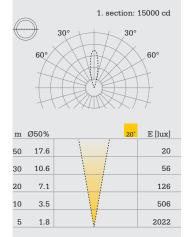
The award-winning Inground Series was born out of our drive to provide better lighting solutions. The result of our commitment is a full range of optical solutions that includes a patent-pending wallwash system for spotless illumination of walls and surfaces.





32° beam angle

609



20° beam angle

Efficiency: 41% Half-peak Ø: 0.35 × distance (m) Illuminance: 50556 / distance² (lux) Total Output: 5777 (lumens)

1. section: 4000 cd

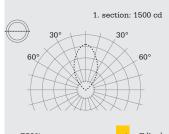
	(/
m	Ø50%	32°	E [lux]
50	28.7		7
30	17.2	$\langle \rangle$	19
20	11.5	$\langle \rangle$	43
10	5.7		171
5	2.9	\vee	683

Efficiency: 41% Half-peak Ø: 0.57 × distance (m) Illuminance: 17063 / distance² (lux) Total Output: 5794 (lumens)

All photometric data is available electronically from www.martin.com/service



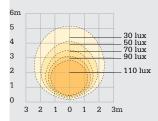
54° beam angle





Efficiency: 43% Half-peak Ø: 1.02 × distance (m) Illuminance: 6291 / distance² (lux) Total Output: 5993 (lumens)

WALLWASH

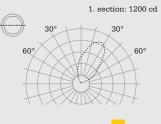


1m set back from wall, no tilt.

WALLWASH

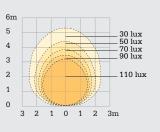


Asymmetric 54° beam angle





Efficiency: 39% Half-peak Ø: 1.02 × distance (m) Illuminance: 5059 / distance² (lux) Total Output: 5526 (lumens)

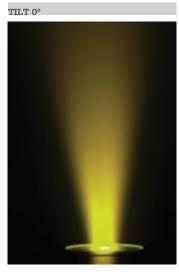


1m set back from wall, 15° tilt.

EASY AIMING

An adjustable lamp frame allows for 360 degrees rotation and +/- 15 degrees tilt. This compensates for variations in terrain and allows precise optical aiming. A locking mechanism secures the designer's aiming position even after lamp replacement.



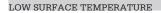


TILT -15°



BEVELLED EDGE

STRAIGHT EDGE





Thermal protection reduces the surface temperature, allowing for safe installation in applications near pedestrians or delicate planting. Surface temperatures are typically below 80°C.



DRIVE-OVER CAPABILITY

Manufactured from marine-grade steel and clear tempered glass, the Inground 200 is designed to withstand loads of 5 metric tonnes. For drive-over applications, the luminaire must be sleeve mounted and installed in concrete. Download the Installation Guide from martin.com



Sits slightly raised with elegant trimming.



For flush mounting giving a smooth uninterrupted surface.

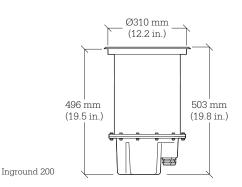
WEATHERPROOF RATING: IP65/67

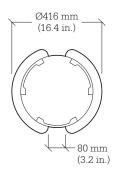


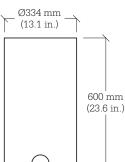
Designed to the highest quality, the Inground Series is weatherproofed to withstand the constant exposure to rain, heat and frost. An IP 65/67 rating guarantees safe and reliable operation in all weathers.

Inground 200









Installation Sleeve

SPECIFICATION

PHYSICAL

Height: 496 mm (19.5 in.) Trim ring outer diameter: 340 mm (13.4 in.) Trim ring thickness: 7 mm (0.3 in.) Housing top flange outer Ø: 310 mm (12.2 in.) Weight: 20 kg (44.1 lbs.) Weight resistance (in installation sleeve with stable groundwork): 5000 kg Front glass weight resistance (load from pneumatic tire): 5000 kg

Installation Sleeve

Installation sleeve height: 600 mm (23.6 in.) Installation sleeve tube external Ø: 330 mm (13.1 in.) Installation sleeve base flange external Ø: 410 mm (16.4 in.)

LAMP

Type: 150 W metal halide Approved lamps: Philips CDM SA/T 150 W/942, Philips CDM-T 150 W/830, Osram HCI-T 150 W/WDL, Osram HCI-T 150 W/NDL Lamp socket: G12 Control: Automatic and/or remote on/off

DYNAMIC EFFECTS [Inground 200 CMY]

Colour mixing: Full spectrum CMY Cyan: 0 - 100% Magenta: 0 - 100% Yellow: 0 - 100% Dimmer: 0 - 100%

DYNAMIC EFFECTS [Inground 200 Six Colour]

Colour wheel: Six colours - red, orange, yellow, green, blue (as standard) + white (open) Dimmer: 0 - 100%

CONTROL AND PROGRAMMING [Inground 200 Six Colour and CMY models]

Control options: DMX, stand-alone, synchronized (master/slave) DMX channels: 6 (CMY models), 4 (Six Colour models) Stand-alone trigger options: Internal timer Stand-alone memory: 20 scenes

CONSTRUCTION

Housing: Aluminium Finish: Black anodized Trim ring: Various options available Installation sleeve: Acid-resistant stainless steel Protection factor: IP 65/67

INSTALLATION

Orientation: Uplight Minimum distance to combustible materials: 1 m (3.3 ft.) Minimum distance to illuminated surfaces: 0.5 m (1.6 ft.)

ELECTRICAL

AC power: 120 / 210 / 277 VAC nominal, 60 Hz / 230 VAC nominal, 50 Hz

THERMAL

 $\begin{array}{l} \mbox{Maximum ambient temperature (Ta): 40^{\circ}C (104^{\circ} \mbox{ F}) \\ \mbox{Maximum surface temperature, steady state, Ta=40^{\circ} \mbox{ C: 80^{\circ}C (176^{\circ} \mbox{ F}) } \\ \mbox{Cooling: Internal fan, conduction via installation site fill material} \end{array}$

APPROVALS

EU EMC: EN 55 015, EN 55 103-1, EN 61 547 EU safety: EN 60598-2-5 Canadian safety: CSA C22.2 No. 250.0-00 US safety: UL 1598

ACCESSORIES



91611194 Installation sleeve bevelled mount



91611202 Anti-glare kit, medium configuration (ring louver)



91611215 Installation sleeve flush mount



91611197 Anti-glare kit, wallwash configuration



91611198 Anti-skid frontglass (design etched)



91611209 Rock guard kit, aluminium



91611211 Trim ring kit, bevelled, brass



91611214 Trim ring kit, flush mount, brass



91611207 Beam shaper module



91611208 Rock guard kit,brass



91611210 Trim ring kit, bevelled, aluminium



91611212 Trim ring kit, flush mount, stainless steel



91611237 40 kg rinsed, dried sand for installation



91611238 Anti-skid frontglass (circular etched)

91611200 Tamperproof trim ring screw set with key



91611199 Rock guard kit, stainless steel



91611213 Trim ring kit, flush mount, aluminium



Inground 200 Ordering

EXAMPLE SPECIFICATION

Inground 200, Ground Recessed, IP67 / IP65, Metal Halide, 150 W, Uplight, Single Colour Filter, Medium, 20°, 210 V, 60 Hz, Bevelled Trim Ring = Inground 200 Single Colour, M, 210 V, 60 Hz, B = 90508444

VARIABLES

	Single Colour Fil Six Colours CMY	ter Medium, 20° Wide, 32° Very Wide, 54° Wallwash, 54°	210 V, 60 Hz 230 V, 50 Hz 277 V, 60 Hz		ed Trim Ring ht Trim Ring			
	KEY B = Bevelled Trim Rir S = Straight Trim Rin	-						
0	Inground 200 Single	e Colour	Inground S	Six Colou	rs	O	Inground 200 CMY	
	SPECIFICATION	CODE	SPECIFICA	ATION	CODE		SPECIFICATION	CODE
V	Medium, 20° M, 210 V, 60 Hz, B M, 210 V, 60 Hz, S M, 230 V, 50 Hz, B M, 230 V, 50 Hz, S M, 277 V, 60 Hz, B M, 277 V, 60 Hz, S	90508444 90507444 90508440 90507440 90507440 90507446	Medium, 2 M, 210 V, 6 M, 210 V, 6 M, 230 V, 5 M, 230 V, 5 M, 277 V, 6 M, 277 V, 6	0 Hz, B 0 Hz, S 0 Hz, B 0 Hz, S 0 Hz, B	90508244 90507244 90508240 90507240 90508246 90507246	V	Medium, 20° M, 210 V, 60 Hz, B M, 210 V, 60 Hz, S M, 230 V, 50 Hz, B M, 230 V, 50 Hz, S M, 277 V, 60 Hz, B M, 277 V, 60 Hz, S	90508044 90507044 90508040 90507040 90508046 90507046
	Wide, 32° W, 210 V, 60 Hz, B W, 210 V, 60 Hz, S W, 230 V, 50 Hz, B W, 230 V, 50 Hz, S W, 277 V, 60 Hz, B W, 277 V, 60 Hz, S	90508424 90507424 90508420 90507420 90508426 90507426	Wide, 32° W, 210 V, 6 W, 210 V, 6 W, 230 V, 5 W, 230 V, 5 W, 277 V, 6 W, 277 V, 6	0 Hz, S 0 Hz, B 0 Hz, S 0 Hz, B	90508224 90507224 90508220 90507220 90508226 90507226	V	Wide, 32° W, 210 V, 60 Hz, B W, 210 V, 60 Hz, S W, 230 V, 50 Hz, B W, 230 V, 50 Hz, S W, 277 V, 60 Hz, B W, 277 V, 60 Hz, S	90508024 90507024 90508020 90507020 90508026 90507026
	Very Wide, 54° VW, 210 V, 60 Hz, B VW, 210 V, 60 Hz, S VW, 230 V, 50 Hz, B VW, 230 V, 50 Hz, S VW, 277 V, 60 Hz, B VW, 277 V, 60 Hz, S	90507404 90508400 90507400 90508406	Very Wide VW, 210 V, VW, 210 V, VW, 230 V, VW, 230 V, VW, 230 V, VW, 277 V,	60 Hz, B 60 Hz, S 50 Hz, B 50 Hz, S 60 Hz, B	90508200		Very Wide, 54° VW, 210 V, 60 Hz, B VW, 210 V, 60 Hz, S VW, 230 V, 50 Hz, B VW, 230 V, 50 Hz, S VW, 277 V, 60 Hz, B VW, 277 V, 60 Hz, S	90508004 90507004 90508000 90507000 90508006 90507006
	Wallwash, 54° WW, 210 V, 60 Hz, B WW, 210 V, 60 Hz, S WW, 230 V, 50 Hz, B WW, 230 V, 50 Hz, B WW, 277 V, 60 Hz, B WW, 277 V, 60 Hz, S	90507414 90508410 90507410 90508416	Wallwash, WW, 210 V, WW, 210 V, WW, 230 V, WW, 230 V, WW, 230 V, WW, 277 V, WW, 277 V,	60 Hz, B 60 Hz, S 50 Hz, B 50 Hz, S 60 Hz, B	90507214 90508210 90507210 90508216		Wallwash, 54° WW, 210 V, 60 Hz, B WW, 210 V, 60 Hz, S WW, 230 V, 50 Hz, B WW, 230 V, 50 Hz, S WW, 277 V, 60 Hz, B WW, 277 V, 60 Hz, S	90507014 90508010 90507010 90508016

A wallwash optical system guarantees even, broad illumination of walls and vertical surfaces. Uniform light distribution starts at ground level.

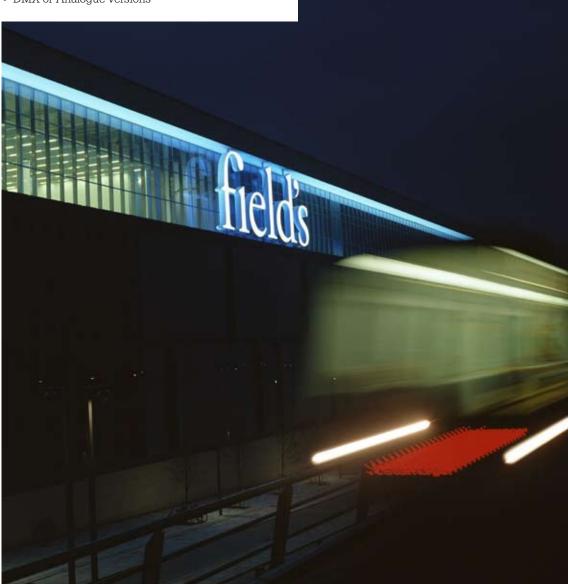
Inground 200 / Ordering

Cyclo IP65

The Cyclo IP65 offers a competitive solution for dynamic outdoor illumination of façades, structures and bridges, with a slim linear design based on RGB and white fluorescent T5 tubes.

FEATURES

- Fluorescent colour changing luminaires for exterior applications
- Choice of wattage: 28 W or 54 W T5 fluorescent tubes
- RGB + W colour mixing, variable colour temperature
- 0-100% intensity control
- Choice of 2-, 3- or 4-tube versions
- Long lamp life (20,000 hrs)
- Weatherproof rating: IP65
- Choice of opal or clear front covers
- DMX or Analogue versions



martinarchitectural



Cyclo 02, DMX, 54 W, Opal



Cyclo 04, Analogue, 28 W, Clear

FLUORESCENT COLOUR MIXING

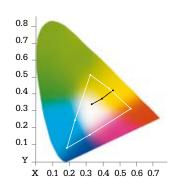
Cyclo luminaires can be programmed to generate smooth variations in light and colour, as well as 'daylight' changes in colour temperature from warm to cool white. This is achieved by combining T5 fluorescent tubes in red, green, blue and white in a process known as additive colour mixing. Each tube is electronically dimmable from 0-100%.

DYNAMIC LIGHT

Light is by nature dynamic. Dynamic light - artificial light capable of reproducing the variety and drama found in nature - offers a new medium for architectural projects. With careful command of brightness and colour, dynamic light allows architectural spaces to adapt to changing client needs or changes in season and climate.

KEY

Black line = Cyclo 02 White line = Cyclo 03/04



CYCLO 02

Recreate the dynamics of daylight with shifting shades of white. Cyclo 02 models are supplied with two white T5 tubes rated at 2700 and 6000 Kelvin to allow colour temperature control from warm white to cool white. Models are available in 28 W and 54 W versions.

CYCLO 03

Useful for decorative colour effects in outdoor environments, the Cyclo 03 uses RGB colour mixing to generate coloured and white light. Models are supplied with red, green and blue T5 tubes and are available in 28 W or 54 W versions.

CYCLO 04

With an additional cool white 4000 Kelvin tube, Cyclo 04 models offer extended colour control and an enhanced white light quality. Models are supplied with four 28 W tubes: red, green, blue and cool white, allowing RGB + W additive colour mixing.



CHOICE OF CLEAR OR OPAL FRONT COVERS

Cyclo IP65s are available with either clear or opal front covers. When illuminating a surface from a close mounting position, an opal front cover provides the advantage of improved colour diffusion, although typically resulting in a 20% loss of light output. All front covers are interchangeable and available as accessories.

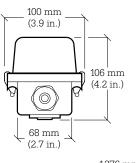
WEATHERPROOF RATING: IP65

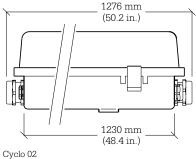


A tried and tested IP65-protected design guarantees reliable operation in wet weather.

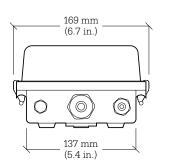
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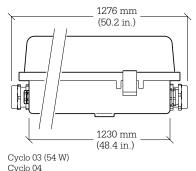
Cyclo IP65





Cyclo 03 (28 W)





SPECIFICATION

CYCLO IP65 02

PHYSICAL

Length: 1276 mm (50.2 in.) Width: 100 mm (3.9 in.) Height: 106 mm (4.2 in.) Weight: 3.8 kg (8.4 lbs.)

LAMP

Type: T5 fluorescent tubes Approved lamps: Osram T5 28 W HE (28 W models), Osram T5 54 W HO (54 W models) Lamp socket: G5

DYNAMIC EFFECTS

Colour temperature control: 2700 - 6000 K continuous mixing

CONTROL AND PROGRAMMING

Control options: Analogue 1-10 V Dimmer channels required per independently controlled Cyclo group: 2

CYCLO IP65 02 DMX

PHYSICAL

Length: 1276 mm (50.2 in.) Width: 100 mm (3.9 in.) Height: 106 mm (4.2 in.) Weight: 4.4 kg (8.4 lbs.)

LAMP

Type: T5 fluorescent tubes Approved lamps: Osram T5 28 W HE (28 W models), Osram T5 54 W HO (54 W models) Lamp socket: G5

DYNAMIC EFFECTS

Colour temperature control: 2700 - 6000 K continuous mixing

CONTROL AND PROGRAMMING

Control options: DMX, stand-alone, synchronized (master/slave) DMX channels: 2 DMX address setting: DIP switch Stand-alone and master/slave programming: DIP switch

CYCLO IP65 03

PHYSICAL

Length: 1276 mm (50.2 in.) Width: 100 mm (3.9 in.) (28 W model) Width: 169 mm (6.7 in.) (54 W model) Height: 106 mm (4.2 in.) Weight: 4.3 kg (9.5 lbs.) (28 W model) Weight: 6.4 kg (14.1 lbs.) (54 W model)

LAMP

Type: T5 fluorescent tubes Approved lamps: Osram T5 28 W HE (28 W models), Osram T5 54 W HO (54 W models) Lamp socket: G5

DYNAMIC EFFECTS

Colour mixing: RGB Red: 0 - 100% Green: 0 - 100% Blue: 0 - 100%

CONTROL AND PROGRAMMING

Control options: Analogue 1-10 V Control via 516 Converter: 16 channels Dimmer channels required per independently controlled Cyclo group: 3 Number of Cyclos per group (fixtures wired in series): 1-10

CYCLO IP65 03 DMX

PHYSICAL

Length: 1276 mm (50.2 in.) Width: 100 mm (3.9 in.) (28 W model) Width: 169 mm (6.7 in.) (54 W model) Height: 106 mm (4.2 in.) Weight: 5.0 kg (11.0 lbs.) (28 W model) Weight: 6.7 kg (14.8 lbs.) (54 W model)

LAMP

Type: T5 fluorescent tubes Approved lamps: Osram T5 28 W HE (28 W models), Osram T5 54 W HO (54 W tube models) Lamp socket: G5

DYNAMIC EFFECTS

Colour mixing: RGB Red: 0 - 100% Green: 0 - 100% Blue: 0 - 100%

CONTROL AND PROGRAMMING

Control options: DMX, stand-alone, synchronized (master/slave) DMX channels: 3 DMX address setting: DIP switch Stand-alone and master/slave programming: DIP switch

CYCLO IP65 04

PHYSICAL

Length: 1276 mm (50.2 in.) Width: 169 mm (6.7 in.) Height: 106 mm (4.2 in.) Weight: 5.8 kg (12.8 lbs.)

LAMP

Type: T5 fluorescent tubes Approved lamps: Osram T5 28 W HE (28 W models), Osram T5 54 W HO (54 W models) Lamp socket: G5

DYNAMIC EFFECTS

Colour mixing: RGBW Red: 0 - 100% Green: 0 - 100% Blue: 0 - 100% Cool white (4000 K): 0 - 100%

CONTROL AND PROGRAMMING

Control options: Analogue 1-10 V Control via 516 Converter: 16 channels Dimmer channels required per independently controlled Cyclo group: 3 Number of Cyclos per group (fixtures wired in series): 1-10

CYCLO IP65 04 DMX

PHYSICAL

Length: 1276 mm (50.2 in.) Width: 169 mm (6.7 in.) Height: 106 mm (4.2 in.) Weight: 7.2 kg (15.9 lbs.)

LAMP

Type: T5 fluorescent tubes Approved lamps: Osram T5 28 W HE (28 W models), Osram T5 54 W HO (54 W models) Lamp socket: G5

DYNAMIC EFFECTS

Colour mixing: RGB Red: 0 - 100% Green: 0 - 100% Blue: 0 - 100%

CONTROL AND PROGRAMMING

Control options: DMX, stand-alone, synchronized (master/slave) DMX channels: 4 DMX address setting: DIP switch Stand-alone and master/slave programming: DIP switch

GENERAL (APPLICABLE TO ALL)

CONSTRUCTION

Housing: Polyester-reinforced composite Front cover: Unbreakable polycarbonate Colour: Cream Protection factor: IP 65

INSTALLATION

Orientation: Any

Minimum free space around fixture: 25 mm (1.0 in.)Mounting points: Surface mount, wire suspension, 90° tilt mounting bracket (available as accessory)

ELECTRICAL

AC power: 198-240 V, 50/60 Hz

THERMAL

Maximum ambient temperature (Ta): 40° C (104° F) Minimum ambient temperature: -20° C (-4° F) Cooling: Convection

APPROVALS

EU EMC: EN 60598-1, EN 60598-2 EU safety: EN 60555-3. EN 55015

ACCESSORIES



91611232 Mounting bracket, 90° tilt-adjustable, stainless steel 100 mm (requires two per fixture)



91611228 Clear front cover 100 mm



91611229 Opal front cover 100 mm

91611230

Mounting bracket, 90° tilt-adjustable,

91611233

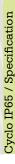
CE

Clear front cover 169 mm



91611231 Opal front cover 169 mm





04150308 DMX termination resistor

Cyclo IP65

0

ORDERING

EXAMPLE SPECIFICATION

Cyclo IP65 02, T5 Fluorescent, Surface Mounted, IP65, Variable Colour Temperature, 28 W, DMX, 230 V, 50 Hz, Clear Front Cover

= Cyclo 02, IP65, 28 W, Clear Front Cover

= 90561000

VARIABLES								
Variable Colour RGB RGB + W	Temperature	28 W 54 W	Analog DMX	Clear Fro Opal Fro	ont Cover nt Cover			
KEY								
C = Clear Front Cove O = Opal Front Cove				-				
			28 W n	nodels				
Cyclo IP65 02	_	0		nodels IP65 03		0	Cyclo IP65 04	_
Variable Colour Te			ICID	FICATION	CODE		RGB + W SPECIFICATION	CODE
DMX			DMX				DMX	
28 W, 230 V, C 28 W, 230 V, O	90561000 90561001		28 W, 2	230 V, C 230 V, O	90562000 90562001		28 W, 230 V, C 28 W, 230 V, O	9056300 9056300
54 W, 230 V, C 54 W, 230 V, O	90561720 90561721			230 V, C 230 V, O	90565000 90565001		Analogue	0050040
Analogue			Analog	gue			28 W, 230 V, C 28 W, 230 V, O	9056310 9056310
28 W, 230 V, C	90561100			230 V, C	90562100			
28 W, 230 V, O	90561101 90560720			230 V, O 230 V, C	90562101 90565100			
54 W, 230 V, C	90500720							



Cyclo IP65 Directional

Weatherproofed for outdoor illumination of façades, structures and landscapes. Slim linear design and excellent optical performance based on RGB and white T5 fluorescent tubes.

FEATURES

- Fluorescent colour changing luminaires for exterior applications
- High output: 54 W T5 fluorescent tubes
- RGB + W colour mixing
- 0-100% intensity control
- Choice of 3- or 4-tube versions
- Long lamp life (20,000 hrs)
- High optical performance: uniform light distribution
- Weatherproof rating: IP65
- DMX, stand-alone, synchronized (master/slave)













FLUORESCENT COLOUR CHANGING LUMINAIRES

T5 fluorescent tubes uniformly maintain a beautifully even colour spread throughout their long lifespan.

LONG LAMP LIFE (20,000 HOURS)

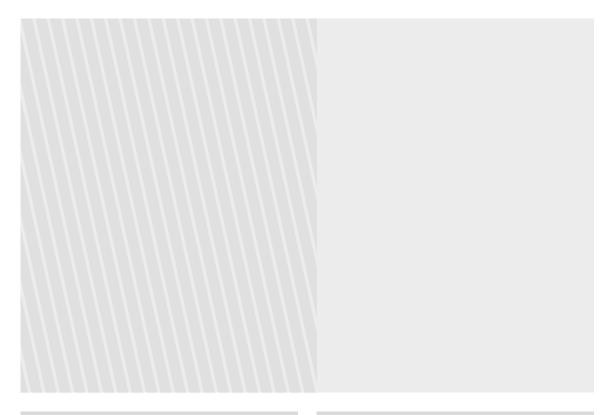
The extended lifespan of fluorescent makes it the ideal source for challenging installations where access might be complex. The consistency of output over its lifespan also ensures a smooth even distribution of colour throughout.



WEATHERPROOF RATING: IP65



A tried and tested IP65-protected design guarantees reliable operation in wet weather.

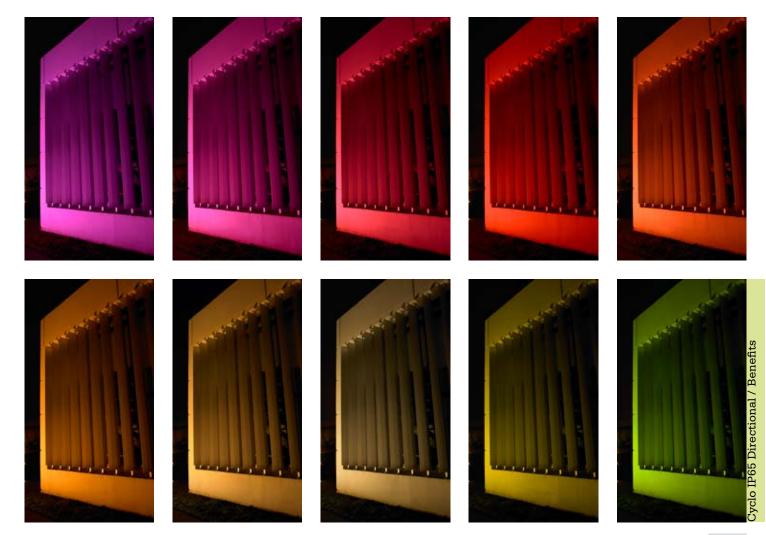


DYNAMIC LIGHT

Light is by nature dynamic. Dynamic light, artificial light capable of reproducing the variety and drama found in nature, offers a new medium for architectural projects. With careful command of brightness and colour, dynamic light allows architectural spaces to adapt to changing client needs or changes in season and climate.

RGB COLOUR MIXING

Through combining three dimmable T5 fluorescent lamps in the primary colours red, green and blue in a process known as additive colour mixing you can create natural daylight shifts and dynamic colour effects. With an additional cool white 4000 Kelvin tube, Cyclo 04 models offer extended colour control and an enhanced white light quality.



Cyclo IP65 Directional

SPECIFICATION

CYCLO IP65 DIRECTIONAL, T5 54 W

PHYSICAL

Length: 1257 mm (49.5 in.) Width: 149 mm (5.9 in.) Height: 230 mm (9.1 in.) Weight: 22 kg (48.5 lbs.)

LAMP

Type: 54 W T5 fluorescent tubes Approved lamps: Osram T5 HO 54 W

DYNAMIC EFFECTS

Colour mixing: RGB (03 models), RGBW (04 models) Red: 0 - 100% Green: 0 - 100% Blue: 0 - 100% Cool white (4000 K): 0 - 100% (04 models)

CONTROL AND PROGRAMMING

Control options: DMX, stand-alone, synchronized (master/slave) DMX channels: 3 (03 models) or 4 (04 models) DMX address setting: DIP switch Stand-alone and master/slave programming: DIP switch

CONSTRUCTION

Housing: Aluminium Finish: Clear anodized Reflector(s): High specular 99.9% aluminium Protection factor: IP 65

INSTALLATION

Orientation: Any Minimum free space: 25 mm (1.0 in.)

ELECTRICAL

AC power: 100-120/200-240 VAC nominal, 50/60 Hz Main fuse: 1 AT (03 models), 2 AT (04 models)

THERMAL

Maximum ambient temperature (Ta): 40° C (104° F) Cooling: Convection

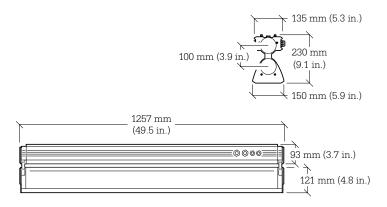
APPROVALS

EU safety: EN 60598-1, EN 60598-2 EU EMC: EN 60555-3. EN 55015 CE

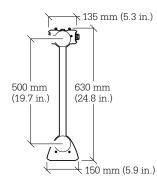
ACCESSORIES

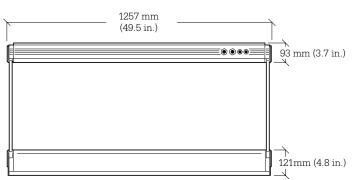
04150308 DMX termination resistor





Cyclo IP65 Directional, T5 54 W





Cyclo IP65 Directional, T5 54 W Long armed versions available on request

Cyclo IP65 Directional

ORDERING

EXAMPLE SPECIFICATION

Cyclo IP65 03 Directional, Surface Mounted, IP65, RGB, T5 Fluorescent, 54 W, 120 V

= Cyclo IP65 03 Directional, 120 V

= 90566810

VARIABLES

RGB RGB + W	T5 54 W	120 V 230 V
White	PL 80 W HIT 150 W	



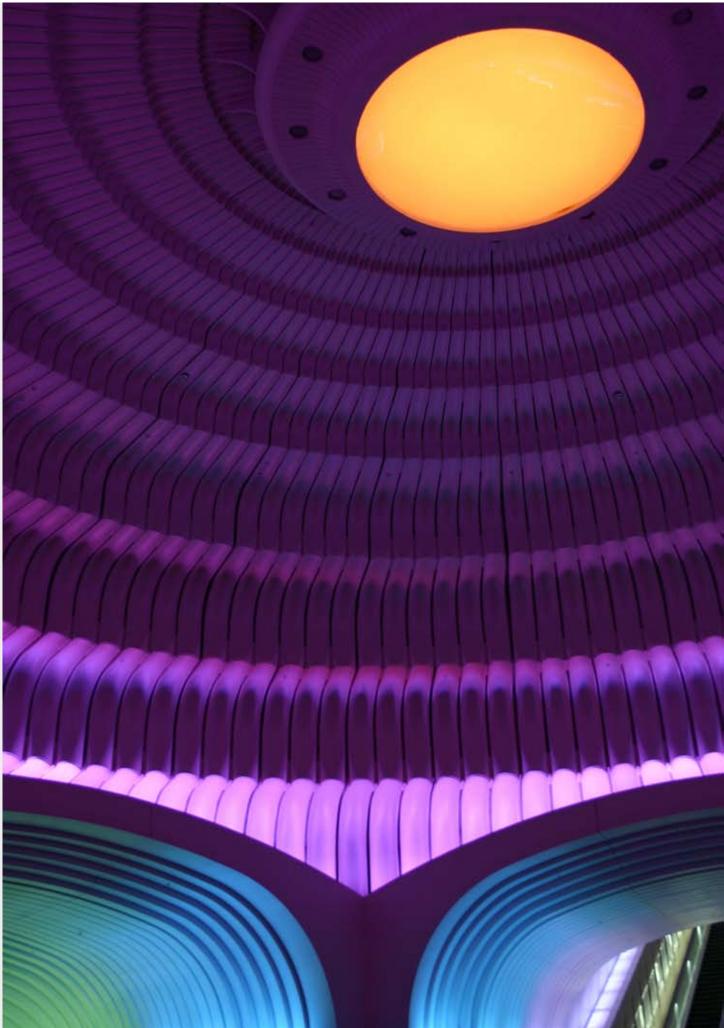


Cyclo IP65 Directional,

03 Directional, RGB







OUR FACTORY

Martin has four production plants located in Denmark, England and China, making the Martin Group one of the world's leading manufacturers of lighting equipment.

Our largest facilities are located in Denmark. Inspired architecturally by the concert halls and stages we illuminate around the world, our newest factory is a high-tech, 12,500 square-metre facility geared towards the production of innovative lighting.



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