



What's your favourite colour? Lavender, lime or rich ruby red, whatever the shade, Martin's colour systems are known for their ability to create beautiful, even colours. Fully flexible, the Inground 200 Series offers a choice of three different colour systems for dynamic light applications of varying complexity.

THREE COLOUR SYSTEMS

1. Single Colour

One selectable colour • Manual Intensity control • Conventional

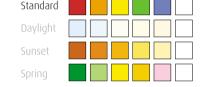
Designed as a simple means to creating colourful lighting schemes, the single colour system lets you choose any colour from our collection of forty dichroic filters. Custom colours are also available. The single-colour system also provides manual intensity control for fine-tuned illumination.



2. Six Colours

Six selectable colours • 0-100% Intensity control • Programmable

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.



The 6-colour system provides a programmable dimmer for true 0-100% intensity control.

3. Full Spectrum CMY

Seamless CMY colour mixing • 0-100% Intensity control • Programmable

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

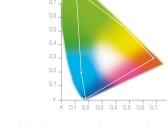
The CMY system also provides a programmable dimmer for true 0-100% intensity control.











With the CMY system, the Inground 200 can

Intensity













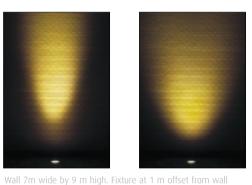
features by varying light intensities. Programmable intensity control lets the light fade seamlessly from full intensity to off.

Good lighting design often highlights key

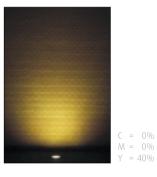
Spotless illumination The Inground Series was born out of our conscious drive to provide better lighting solutions. The consequence of this drive is a full range of optical solutions that include a patent-pending wallwash design for spotless illumination of walls and surfaces.

A FULL RANGE OF OPTICAL SYSTEMS









Medium

A 32-degree beam angle suitable for Columns Palm trees Bridges Tall structures Facades

Wide

A 56-degree beam angle suitable for uplighting Foliage Trees Structures Facades

Very Wide

A 98-degree beam angle suitable for uplighting Foliage Trees Structures Facades

Wallwash Option

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









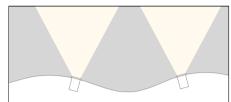
wallwash Mirror

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.







Low surface temperature

Double glass protection reduces the surface temperature, allowing for safe installation in applications near pedestrians or delicate planting. Surface temperatures are typically below 80°C. Consult Martin Architectural for safety information.

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 can also be sleeve mounted and installed in concrete. Consult Martin Architectural for details

Accessories

The Inground 200 can be adapted with a number of accessories, including louvres and customized top plates. Consult Martin Architectural for a full accessory list.





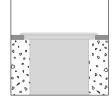
Available in stainless steel, aluminium or brass

Installation

Special attention has been paid to ensure easy installation. The Inground 200 is suitable both for direct burial and sleeve installation. As with all buried uplights, adequate drainage should be ensured.



Sleeve burial in concrete



Direct burial

No colour distortion

The Inground 200 front glass is made of OptiWhite glass to ensure high transmission. a purer white light and no colour shift. Other uplight luminaires use conventional glass that will always discolour the light green.



Programmability

Martin luminaires are 'intelligent' luminaires, and as such can be controlled by computer, or programmed to change according to the season or time of day. Most dynamic installations have a number of lighting programmes that can be selected for different functions and events.

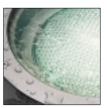
Depending on the complexity required, Inground luminaires can either be operated by PC software, or without the aid of an external controller, via a built-in programme or master/slave relationship.





IP 65/67

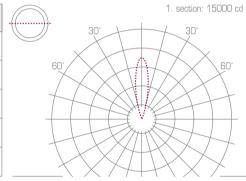
Designed to the highest quality, all Inground products are weatherproofed to withstand the constant exposure to rain, heat and frost. An IP 65/67 rating guarantees safe and reliable operation in all weathers.



PHOTOMETRICS

Medium Fresnel 32°

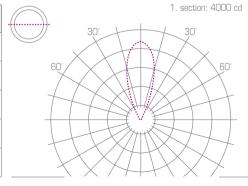
m.	Ø 50%	<u>Ø 10%</u>	50. 35.	E (lux)
20	7.0	11.2		126
15	2.3	8.4		225
10	3.5	5.6		506
5	1.8	2.8		2022
2	0.7	1.1	V	12639



Efficiency
41%
Half-peak diameter
0.35 x distance (m)
One-tenth peak diameter
0.56 x distance (m)
Illuminance
50556/ distance ² (lux)
Total Output
5777 (lumens)

Wide Diffuser Lens 56°

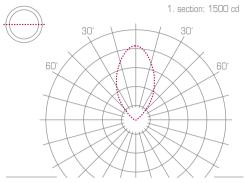
m.	Ø 50%	<u>Ø 10%</u>	3256	E (lux)
20	11.4	21.2		43
15	8.6	15.9		76
10	5.7	10.6		171
5	2.9	5.3		683
2	1.1	2.1		4266



Efficiency
41%
Half-peak diameter
0.57 x distance (m)
One-tenth peak diameter
1.06 x distance (m)
Illuminance
17063/ distance ² (lux)
Total Output
5794 (lumens)

Very Wide Superwide Lens 98°

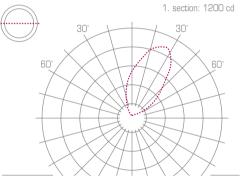
m,	Ø 50%	Ø 10%	54° 98 °	E (lux)	
20	20.4	46.0	\	16	
15	15.3	34.5		28	
10	10.2	23.0		63	
5	5.1	11.5		252	
2	2.0	4.6		1573	



Efficiency
43%
Half-peak diameter
1.02 x distance (m)
One-tenth peak diameter
2.30 x distance (m)
Illuminance
6291/ distance ² (lux)
Total Output
5993 (lumens)

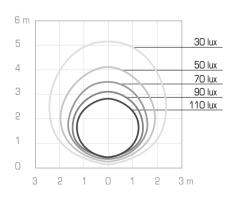
Wallwash Superwide Lens + Mirror 104°

m.	Ø 50%	<u>Ø 10%</u>	54° <u>104°</u>	E (lux)
20	20.4	51.2		13
15	15.3	38.4		23
10	10.2	25.6		51
5	5.1	12.2		202
2	2.0	5.1		1265

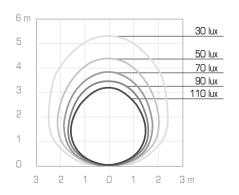


Effi	ciency
	<u> </u>
39	%
Hal	f-peak diameter
1.0	02 x distance (m)
One	e-tenth peak diameter
2.5	66 x distance (m)
Illui	minance
50	59/ distance ² (lux)
Tot	al Output
55	26 (lumens)

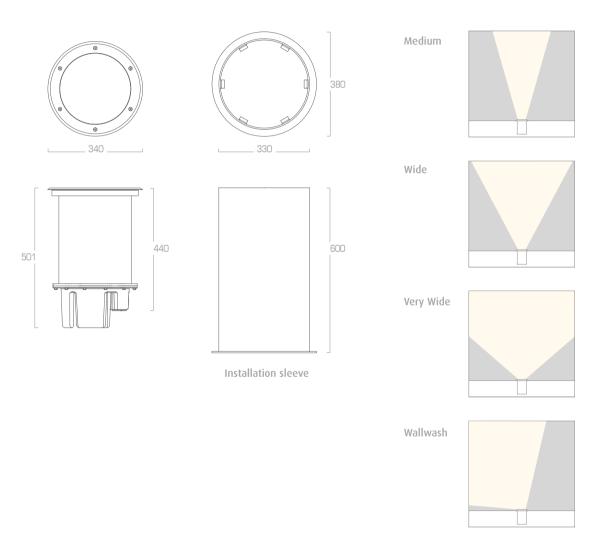
Wallwash



Wallwash Superwide Lens + Mirror. The fixture is centered on grid with 1m setback, no tilt.



Wallwash Superwide Lens + Mirror. The fixture is centered on grid with 1m set-back 15-degrees tilt.



SPECIFICATIONS

Inground 200

Physical

Diameter (at lens/at base): Ø310/Ø340mm (12.2 in./13.4 in.) Height: 500 mm (19.7 in.)

Weight: approximately 20kg (44lb)

Source

Lamp: 150 W HIT

Base: G12

Approved models: Philips CDM-SA/T 150W/830 Philips CDM-SA/T 150W/942 Osram HCI-T 150W/WDL Osram HCI-T 150W/NDL

Thermal

Cooling: Convection

AC Supply

Power supply options: 100-110-120V; 200-210-220-230-240-250-277 V; 50/60Hz AC Entrance: 2 threaded holes M25 x 1.5mm, suitable for

through wiring

Construction

Housing: combination of extruded and high pressure die-cast aluminium Finish: powder coated epoxy/ polyester with 2% Teflon (PTFE), Grey

Lens frame: N/A

Fasteners: Six pieces M6 stainless steel Allen cap screws Front glass: Ø254mm, 19 mm

tempered optiwhite
Protection factor: IP 65/67

Included items

User manual

(M16x1.5; ø=5-9mm)

Philips CDM-SA/T 150W/942 2 stainless steel cable glands (IP 68) for data entrance

2 stainless steel cable glands (IP 68) for AC entrance (M25x1.5mm; ø13-17mm)

CMY module

Control & Programming

Control options: DMX-512, stand-alone, master/slave, remote control

Receiver: RS-485

Setting and addressing: MP-2, DAD, MUM

Firmware update: Serial upload (MUF)

Stand-alone trigger options : internal real-time clock with timer

Stand-alone memory: 20 scenes

Data Entrance: 2 threaded holes M16x1.5mm suitable for through

DMX channels: 5

Dynamic effects

Cyan filter: 0 - 100% Magenta filter: 0 - 100% Yellow filter: 0 - 100%

Dimmer: 0 - 100%

Control & Programming

6 colour module

Control options: DMX-512, stand-alone, master/slave, remote control

Receiver: RS-485

Setting and addressing: MP-2. DAD. MUM

Firmware update: Serial upload (MUF)

Stand-alone trigger options : internal real-time clock with timer

Stand-alone memory: 20 scenes

Data Entrance: 2 threaded holes M16x1.5mm suitable for through

DMX channels: 3

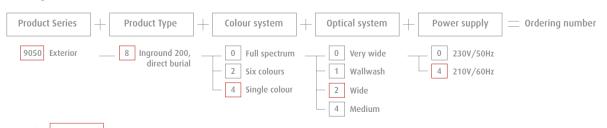
Dynamic effects

Colour wheel: 6 positions

Dimmer: 0 - 100%

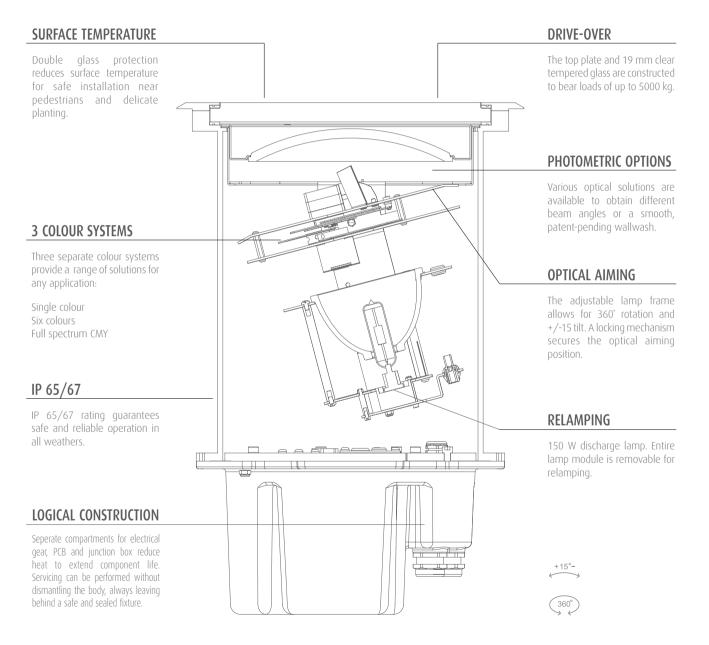
ecifications subject to change

Ordering information



Example: 90508424 (Inground 200, C, W, 210V/60Hz)

AT A GLANCE



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Product Guide

For information on the full Martin Architectural range, order our product quide at:

www.martin-architectural.com

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