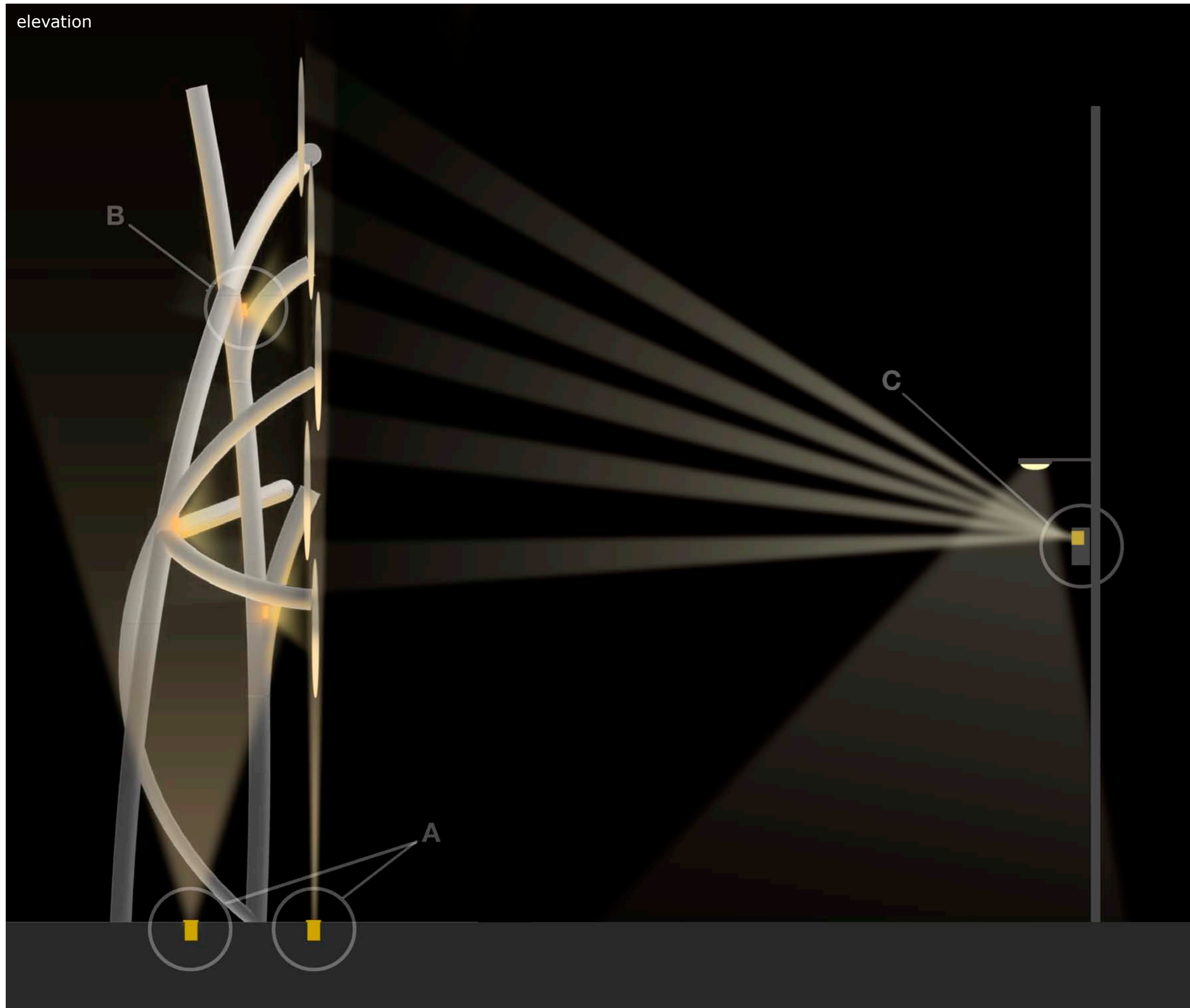


elevation

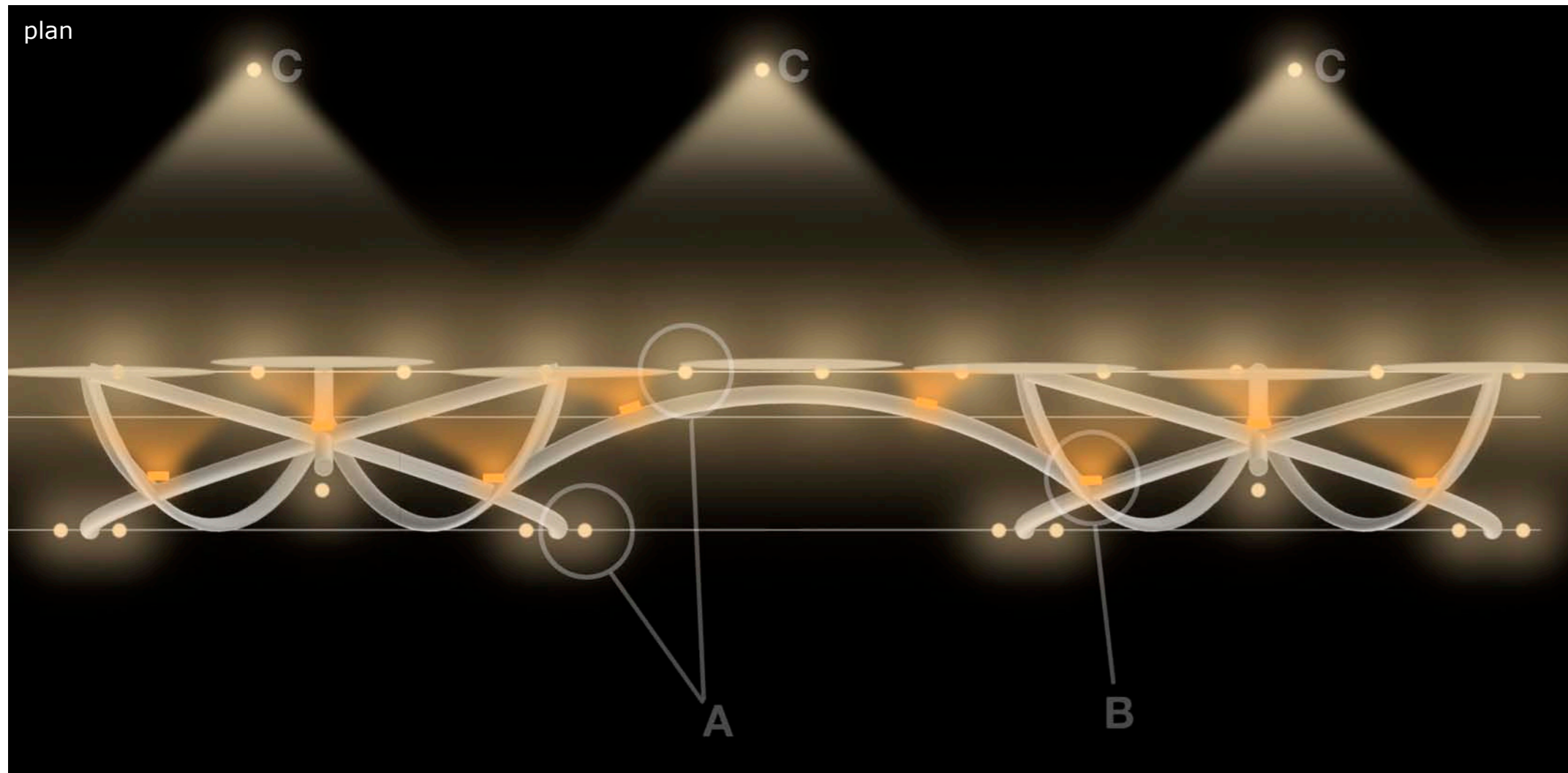


The proposed lighting concept for the kinetic screen is based around the following ethos;

1. The appearance of the screen should differ between day and night, to emphasize the change in feel of the area. This can be achieved by emphasizing particular elements of the structure, such as the shape of the leaves and supporting trunks. Movement can also be highlighted and enhanced by employing intelligent use of colour and lighting controls.

2. Light should be used to enhance the permeability of the structure, by highlighting the negative space between the 'leaves' and the supporting structures behind. Our aim is to soften the structure and emphasize the three dimensional design of both the leaves and the trunk system.

3. As well as the view to the front of the screen, the view from behind should also be considered as this is a key view for residents. It is important that these residents don't feel impounded within the island, something that can be achieved by making a feature of the rear facade elements .



To achieve this concept, we will utilise three key elements;

Luminaire Type A;

Ground recessed uplights will highlight the uniquely curved forms of the 'trunk' supporting structures, visible in full from behind and in glimpses from the front through the negative space between the leaves. By staggering the 'leaves' on the horizontal plane, these uplights will graze their lower edges and pick up texture and movement. This effect will create an ethereal, shimmering feel similar to highlights on moving water or a breeze through a tree canopy. Subtle colour shifts can also be utilised to enhance the feeling of movement, ranging from slow, tonal changes to cascades along the length of the entire screen.

Luminaire Type B;

Secondary light sources will be mounted at key points further up the supporting trunks on the vertical plane. Working alongside the uplights, these luminaires will give a second level of control and will allow for more detailed lighting scenes, also ensuring that leaves higher up the screen will also be lit.

Luminaire Type C;

Projectors will also be mounted at key locations on the opposite side of the main road, on existing lighting columns where possible. These projectors will be tailored to project white or coloured light onto sections of leaves, and can be used in a multitude of ways. Edges can be picked out to mirror the light coming upwards from the ground recessed luminaires. Individual leaves can be highlighted, patterns can be projected and movement can be enhanced.

Used together, these three lighting techniques will work in synergy to create a single living, breathing element. The following pages give indications of the types of luminaires required.



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.

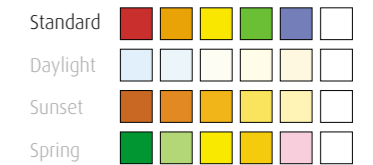


Choose your favourite colour from our collection of forty.

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.



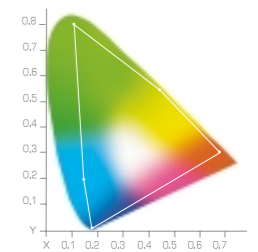
The 6-colour system provides a programmable dimmer for true 0-100% intensity control.

3. Full Spectrum CMY

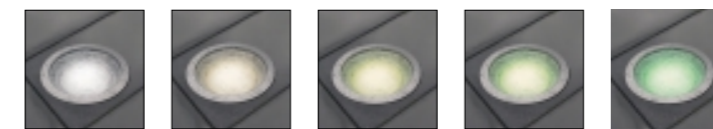
Seamless CMY colour mixing • 0-100% Intensity control • Programmable

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.



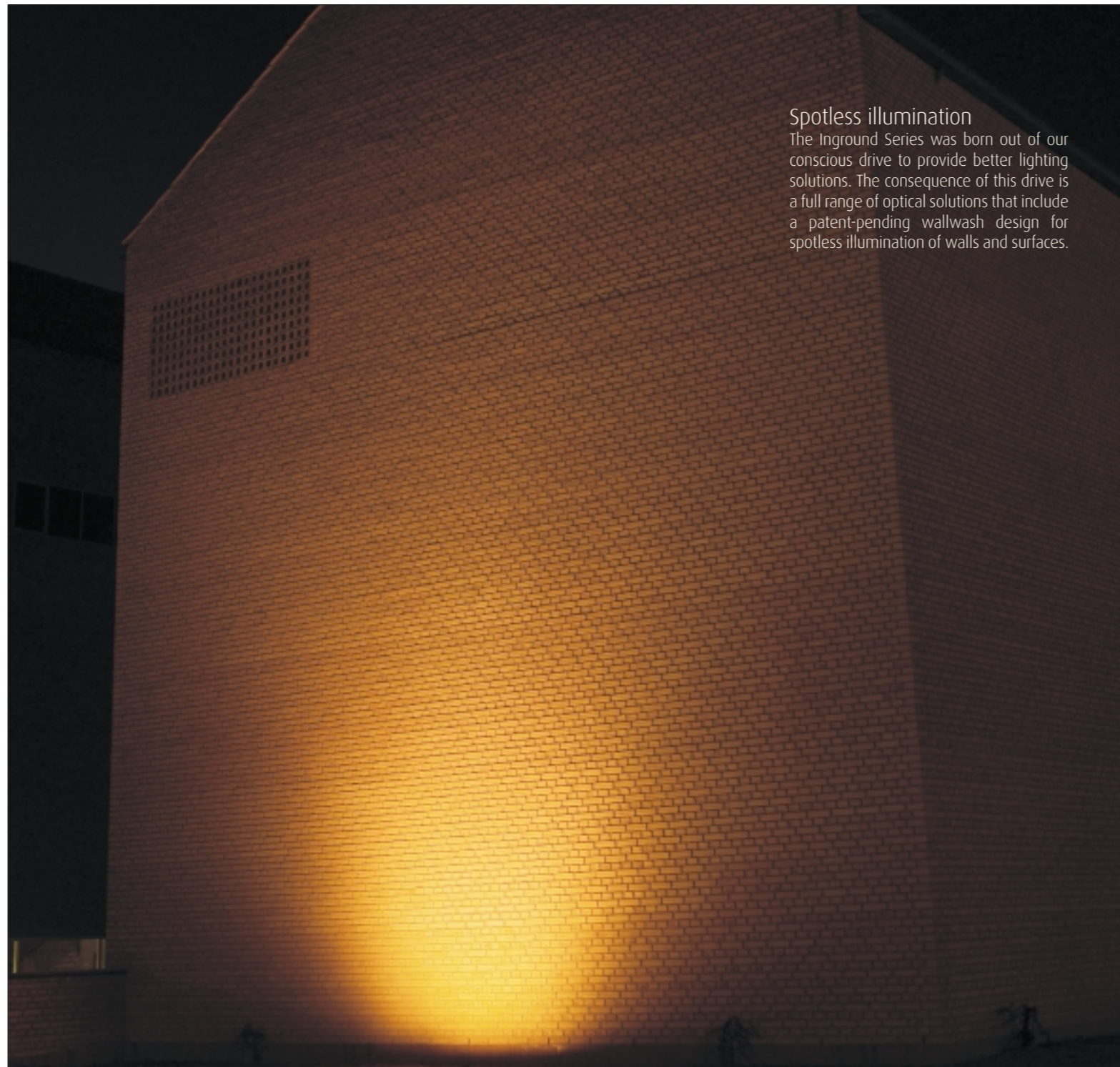
With the CMY system, the Inground 200 can create all the colours in the triangle above.



Intensity



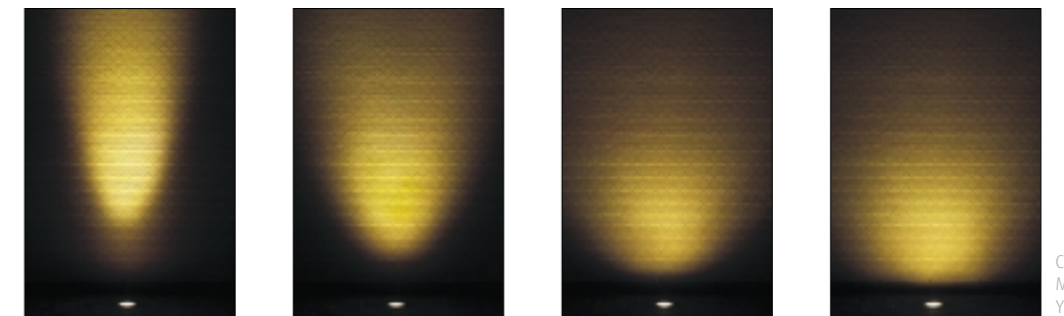
Good lighting design often highlights key features by varying light intensities. Programmable intensity control lets the light fade seamlessly from full intensity to off.



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



Wall 7m wide by 9 m high. Fixture at 1 m offset from wall

Medium

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



Fresnel Lens

Wide

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



Diffuser Lens

Very Wide

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



Superwide Lens

Wallwash Option

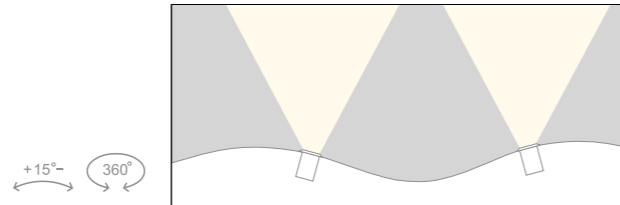
A patent-pending optical system guarantees even, broad illumination of walls and surfaces. Uniform light distribution starts at ground level.



Superwide Lens with 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

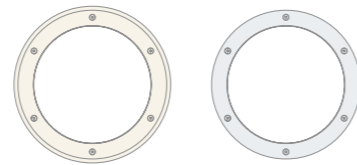
Double glass protection reduces the surface temperature, allowing for safe installation in applications near pedestrians or delicate planting. Surface temperatures are typically below 80°C. Consult Martin Architectural for safety information.

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

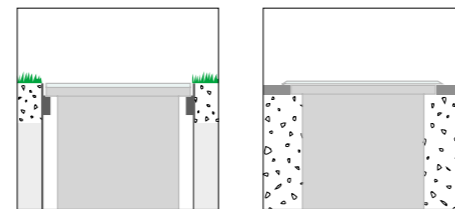
The Inground 200 can be adapted with a number of accessories, including louvres and customized top plates. Consult Martin Architectural for a full accessory list.



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.

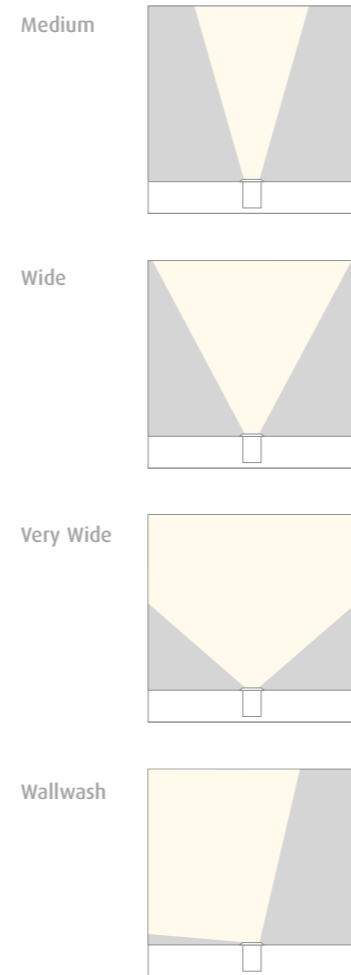
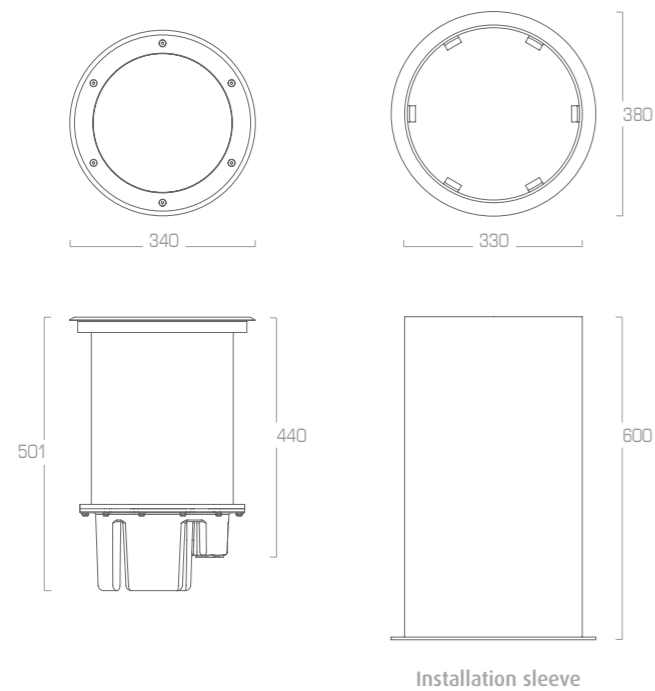
Depending on the complexity required, Inground luminaires can either be operated by PC software, or without the aid of an external controller, via a built-in programme or master/slave relationship.



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.





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 optiwwhite
Protection factor: IP 65/67

Included items

User manual
Philips CDM-SA/T 150W/942
2 stainless steel cable glands
(IP 68) for data entrance
(M16x1.5; ø=5-9mm)
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
wiring
DMX channels: 5

Dynamic effects

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

6 colour module

Control & Programming

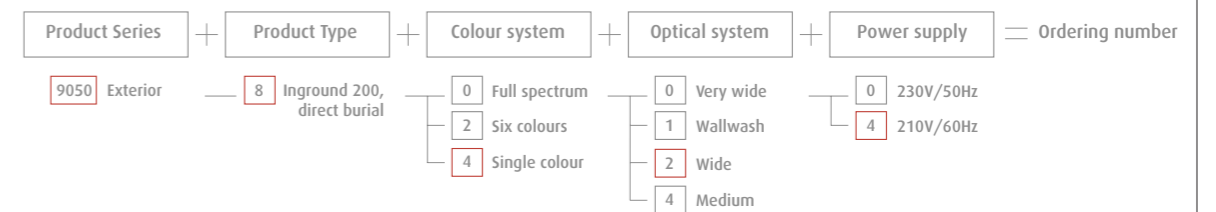
Control options: DMX-512,
stand-alone, master/slave,
remote control
Receiver: RS-485
Setting and addressing:
MP-2, DAD, MUM
Firmware update:
Serial upload (MUF)
Stand-alone trigger options :
internal real-time clock with timer
Stand-alone memory: 20 scenes
Data Entrance: 2 threaded holes
M16x1.5mm suitable for through
wiring
DMX channels: 3

Dynamic effects

Colour wheel: 6 positions
Dimmer: 0 - 100%

Specifications subject to change.

Ordering information



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

AT A GLANCE

SURFACE TEMPERATURE

Double glass protection reduces surface temperature for safe installation near pedestrians and delicate planting.

3 COLOUR SYSTEMS

Three separate colour systems provide a range of solutions for any application:

Single colour
Six colours
Full spectrum CMY

IP 65/67

IP 65/67 rating guarantees safe and reliable operation in all weathers.

LOGICAL CONSTRUCTION

Separate compartments for electrical gear, PCB and junction box reduce heat to extend component life. Servicing can be performed without dismantling the body, always leaving behind a safe and sealed fixture.

DRIVE-OVER

The top plate and 19 mm clear tempered glass are constructed to bear loads of up to 5000 kg.

PHOTOMETRIC OPTIONS

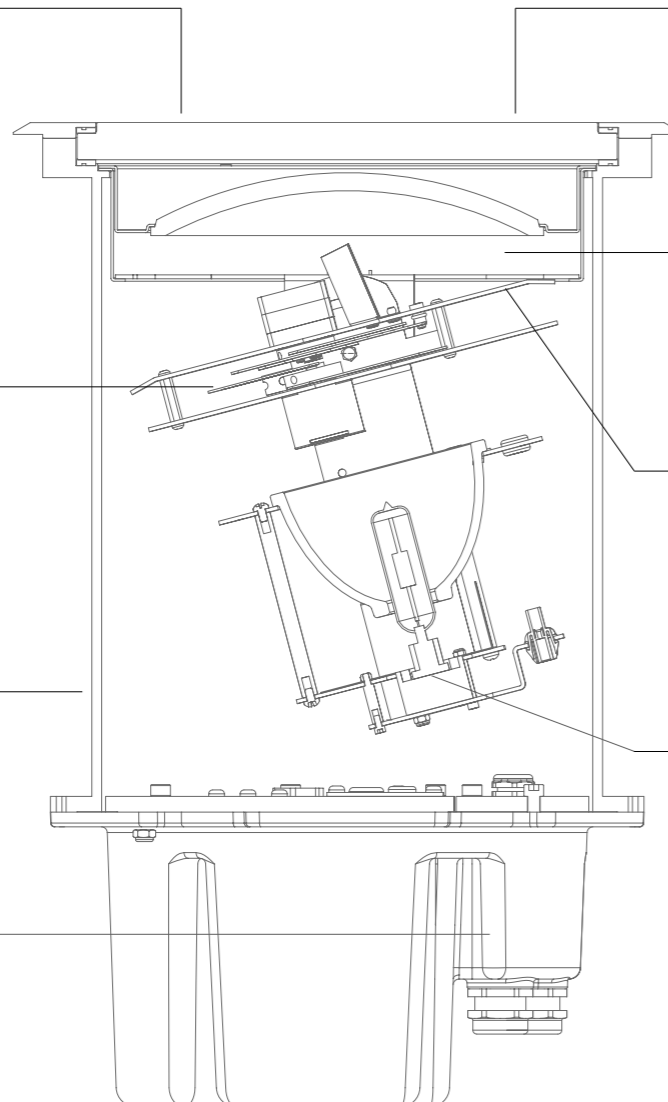
Various optical solutions are available to obtain different beam angles or a smooth, patent-pending wallwash.

OPTICAL AIMING

The adjustable lamp frame allows for 360° rotation and +/-15° tilt. A locking mechanism secures the optical aiming position.

RELAMPING

150 W discharge lamp. Entire lamp module is removable for relamping.



+15°

360°

martinarchitectural

Product Guide

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

www.martin-architectural.com

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APPLICATION - EXTERIOR MARKER
SPECIFICATION - TAURUS

LIGHTING CONFIGURATIONS



Garden



Façade



Pathway



TAURUS



Description

Taurus is a high visibility IP65 exterior quality marker light developed in conjunction with lighting designers DPA. A combination of a machined aluminium housing, along with a strong domed polycarbonate diffuser allow this fitting to be used to highlight building features and structures alike. The high intensity of the Luxeon LED offers a striking and vivid lighting effect and has already been successfully used at Mersey Wave and Selfridges, to illuminate the specialist aluminium structures.

Lighting Performance

Light Source	1 Watt Luxeon LED
LED Qty	1
Output	50 lumens for white
Life	50,000 hrs
CRI	90 for warm white

Electrical Data

Input Current	350mA
Input Power	1.2W Typical
Driver Type	Series Driver
Series Rating	1
Connection Type	Prefitted with 2m cable

Luminaire Data

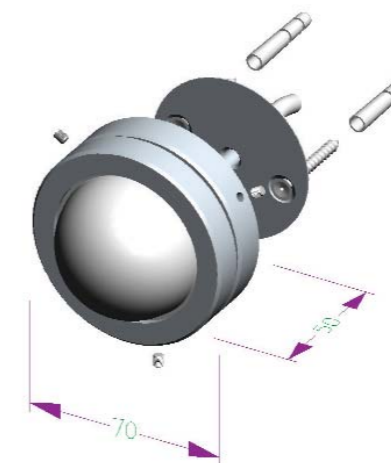
Weight	250g
Temperature Range	-10°C to 40°C
Mounting Type	Surface
Finishes	Silver Anodised
IP Rating	IP65

Design Tips

For marker light or minimal glare use a frosted dome. For maximum output use a clear dome. We recommend 9 degree optics for maximum punch and power.



Technical Diagram



Part Code

Diffuser	
Clear Polycarbonate	DGC
Frosted Polycarbonated	DGF
Finish	
Anodised Aluminium Silver	AAS
Collimator Lens	
None	U
6°	6K
9°	9K
15°	9K
25°	9K
Luxeon Colour	
Red	R
Blue	B
White	W
Warm White	WW
Amber	A
Green	G

ACDC1033/B/U/AAS/DGF

To Specify State

IP65 Taurus utilising 1 x 1 Watt Dual Binned Luxeon LED. Luminaire efficacy to be 42 lumens per watt with life in the region of 50,000 hours to 70% lumen maintenance. LED Colour to be **W, WW, R, G, B, A**, with finish in **Silver 6082 Anodised Aluminium**.

SURFACE MARKER IP65

EXTERIOR

Projector 0LP 250-40



opticalight

opticalight

opticalight gmbh +++ hofstrasse 1 +++ ch-8032 zurich
 +++ phone 0043 44 253 1003 +++ fax 0043 44 253 1004
 mail@opticalight.ch +++ www.opticalight.ch

Projector

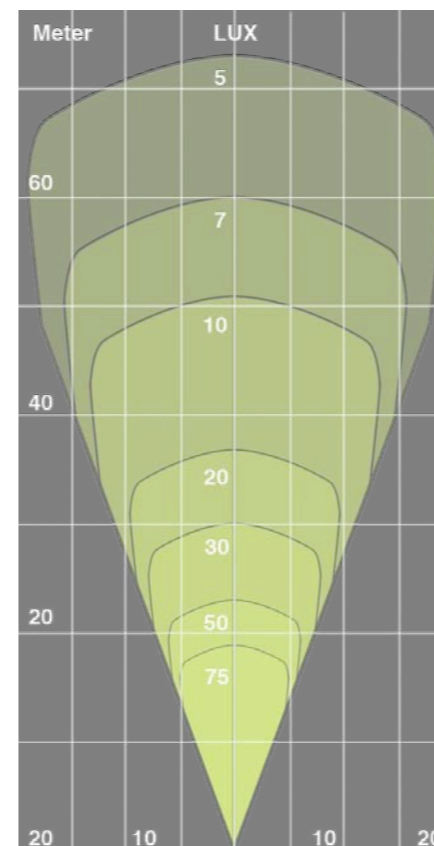
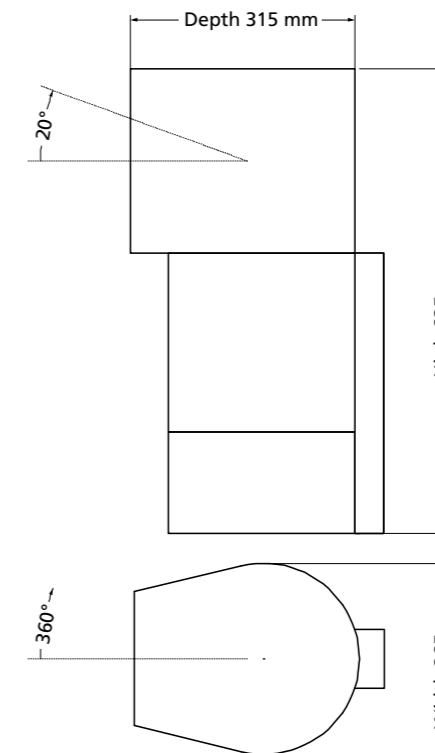
Power consumption 265W
 Voltage 220-240V
 Luminous flux 8'500 - 10'500 ANSI lumens
 Protection rating II
 Protection system IP 65
 Weight 19 kg

Lamp

Philips CDM-T250W/830 and 942 respectively
 Average Life 11'000 h
 Colour temperature 3'000°K / 4'200°K
 Output 9'200 lm
 Efficiency 41%

Composition

Chrome steel (V2A)
 Standard wet-painting according to NCS or RAL



Projection

40° conical with variable light distribution curve
 Horizontally 360° pivotal, vertically 0° to 20° pivotal

Installation

With mounting plate on floor, wall, ceiling or poles, horizontally or vertically. Keep access to maintenance of device free.

Average construction costs for installation

Incl. light distribution masks, installation, commissioning, VAT.
 Excl. light planning, supply and poles

Quantity	1. Installation	further light distribution masks
2 Projectors	CHF 24'000.-	CHF 3'400.-
5 Projectors	CHF 47'000.-	CHF 6'700.-
15 Projectors	CHF 125'000.-	CHF 18'000.-

Average annual operational costs

for 2'000 h/year, daily from dawn until midnight

Quantity	Electricity	Maintenance, Reparation
2 Projectors	CHF 180.-	CHF 1'600.-
5 Projectors	CHF 400.-	CHF 2'600.-
15 Projectors	CHF 1'200.-	CHF 5'900.-

October 2009

Subject to changes and price adjustments