

FORBURY PLACE Phase 1 & 2

External Lighting Specification

Type G



PROJECT: *FORBURY PLACE*



REFERENCE

G & GE

PRODUCT NAME

Avenue

DESCRIPTION

Recessed linear LED lighting system for continuous or stand alone applications. Hexaprism diffuser. Creates long uninterrupted lines & angles of light. IP20 when fitted with Hexaprism diffuser. IP44

LAMPS

4000K LED

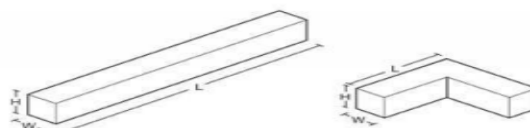
CONTROL GEAR

DALI DIMMING

EMERGENCY

COMEPS 3hr

DIMENSIONS



Version	L	W	H	CAØ	KG	KG
---------	---	---	---	-----	----	----

Avenue - Various lengths please refer to drawings.

LOR

100%

EX 1

Capra Range

Enhance visual characteristics

The Capra range of in-ground up-lighters allows a wide range of effects to be achieved from the glow of a marker light to floodlighting a building façade or highlighting architectural features. Capra's breadth encompasses three different versions: Capra-Mini, for low level lighting; Capra and Capra-Compact for more impactful up-lighting. Capra-Compact allows equivalent outputs to Capra, for where the installation depth is limited.

A choice of light sources, including performance LEDs, combined with an array of beam distributions, gives total design freedom. Static or adjustable reflectors and beam focussing offers additional flexibility, for on-site fine-tuning for maximum impact.

Capra range available with LED and conventional light sources

Features

- Choice of light sources including LED
- Asymmetric and symmetric distributions
- Fixed and adjustable reflectors
- Small, large and compact versions
- Stainless steel or painted bezel options



Bengeworth School, Evesham

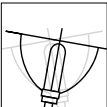
Capra-Compact

Product Codes

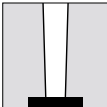
				Example
1. Model				
CPC	CPC	CPC		CPC
2. Light Source				
035C			35W CDM-T	035C
070C			70W CDM-T	
	070TD		70W HQI-TS	
		WW	Warm White LED 3000K	
		CW	Cool White LED 6000K	
3. Optical Control				
N		N	Narrow Beam – 10°	M
M		M	Medium Beam – 30°	
W			Wide Beam – 50° x 10°	
	A		Asymmetric Beam	
4. Colour				
7	7	7	Stainless Steel	7
AX	AX	AX	RAL 7039 Quartz Grey	
Example Code = CPC 035C M 7				

Optical Distribution

Narrow beam
35W, 70W CDM-T



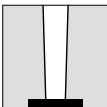
Adjustable optic
±10°



10° Beam



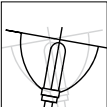
Narrow beam
LED



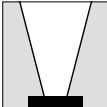
10° Beam



Medium beam
35W, 70W CDM-T



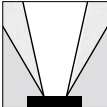
Adjustable optic
±10°



30° Beam



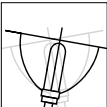
Elliptical beam
LED



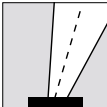
50° x 10° Beam



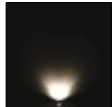
Asymmetric reflector
HQI-TS



Adjustable optic
±10°



70° Beam
1max 30°



Options

Metal Halide
Maximum lamp wattage: 70W

LED
Maximum wattage: 16.5W

Glazing:
Clear toughened glass
Frosted toughened glass
available on request

Light source:
35W CDM-T
70W CDM-T
70W HQI-TS

LED:
15 x 1.1W
Warm White 3000K
Cool White 6000K

Colours:
RAL 7039 Quartz Grey
Grade 316 Stainless Steel Bezel

Optical Control:
Narrow beam
Medium beam
Elliptical beam
Asymmetric reflector

Materials

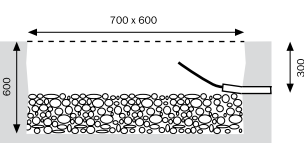
Body: Die cast aluminium
Bezel: Painted aluminium or stainless
steel bezel
Sump: Techno polymer
Seals: Silicone rubber

Installation and Maintenance

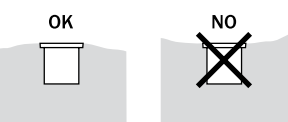
Access via Allen screws



Compact sump allows shallow installation



It is necessary to provide a gravel sump
approximately 30cm deep to ensure good
drainage and to avoid water stagnation



Must not be installed in a recess

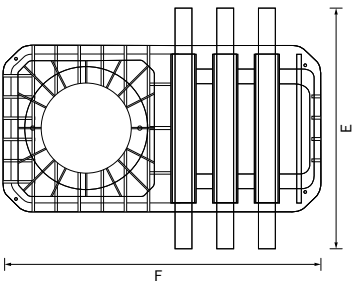
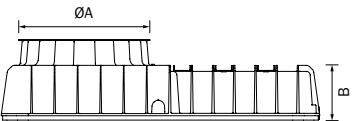
Product can be loop in/out cabled
(using flexible cable) directly into an
IP68 rated gear housing, located in
the sump

Supplied with mains voltage
power supply

Supplied with an IP68 gel filled
connector with loop in/loop out
capability for flexible cables

Optional accessories

IP68 in ground junction box for steel
wire armour cable terminations
IPJBSWA01



Technical Data



Can withstand a load of:
7500kg vehicle travelling at 18mph
2500kg static

Glass Temperature	
LED	45°
35W CDM-T	80°
70W HQI-TS	119°

Dimensions mm						Weight kg
A	B	C	D	E	F	
274	114	165	346	500	661	11.7 max

Capra-Compact

IP67 | IK10 | CLASS I

- Compact version of the Capra range, suitable for installations with confined depth
- Available in LED and Metal Halide
- Choice of white LED colour temperatures
- Wide range of beam angles, adjustable optic or asymmetric distributions

LED



Shallow, 165mm installation depth



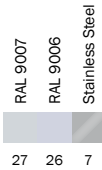
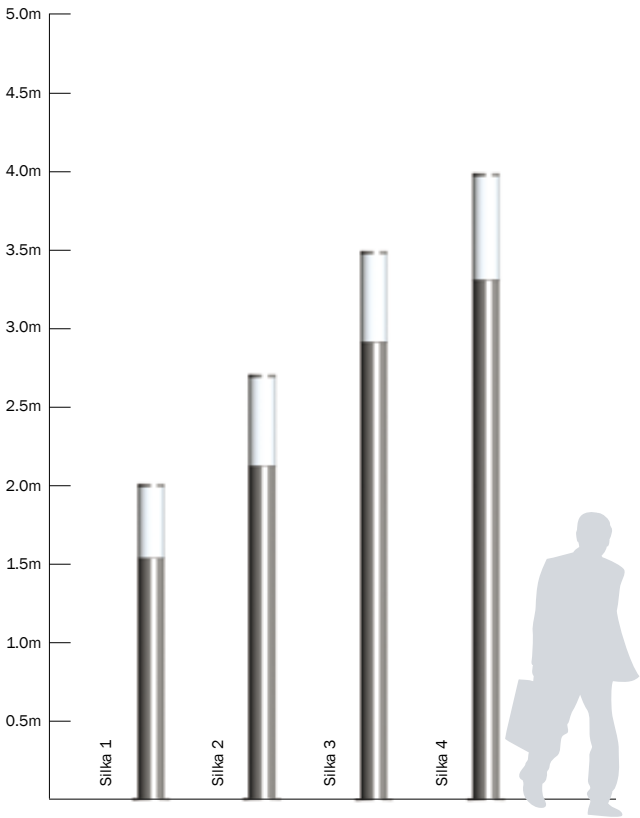
Capra
City of Sunderland College & St. Peter's Sixth Form

EX 3

Silka

Product Codes

				Example
1. Model				
SI	SI	SI		SI
2. Height				
1			2.0m	1
	2		2.7m	
	3		3.5m	
		4	4.0m	
3. Mounting				
R	R	R	Root	R
F	F	F	Flange	
4. Light Source				
224L			2 x 24W PL-L	224L
	236L		2 x 36W PL-L	
		255L	2 x 55W PL-L	
WLED	WLED	WLED	White LED Array	
RLED	RLED	RLED	RGB LED Array	
5. Colour – for alternative colours see below				
26	26	26	RAL 9006 Aluminium	26
Example Code = SI 1 R 224L 26				



This product is available in the colours listed, with other colours available to special order. See inside front cover flap for further details

Options

Silka 1

2.0m

Silka 2

2.7m

Silka 3

3.5m

Silka 4

4.0m

Custom heights available to order

Mounting:

With root or flange plate mounting

Bolt-on root also available

Glazing:

Opal polycarbonate

Gear, switching and control:

Electronic gear

Light source:

LED: White or RGB

2 x 24W, 2 x 36W, 2 x 54W PL-L

RGB colour change available on request

Colours:

RAL 9007 Metallic Grey

RAL 9006 Aluminium

Stainless steel (brushed)

Other RAL colours available on request

Materials

Glazing tube: UV stabilised opal polycarbonate glazing

Body: Galvanised steel (standard) Stainless steel

Finish: Polyester powder coated (standard)

Brushed and passivated (stainless steel only)

Bolt on root: Galvanised steel

Installation and Maintenance

Simple wiring via a mains connection within the base of the luminaire head

Optional accessories

Bolt-on root

SIL-R (all versions)

Proposed type

Proposed Mounting

Proposed lamps

Proposed Colour

Proposed Body

Proposed finish

Optical Distribution

Proposed Colour

Proposed Body

Proposed finish

Proposed Colour

Proposed Body

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EX 4



WE-EF LEUCHTEN

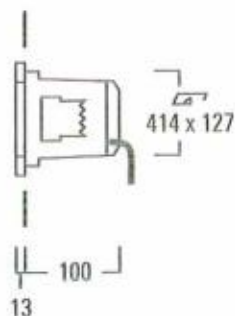
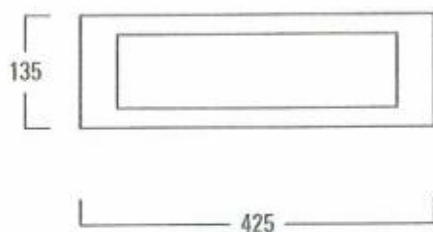
Montage- und
Wartungshinweise für
Wandeinbauleuchten
ST0279
STI274

Installation and
Maintenance Instructions for
Steplights
ST0279
STI274

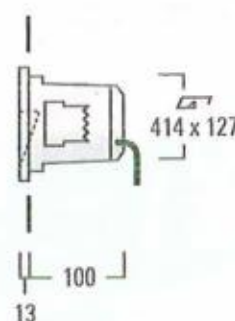
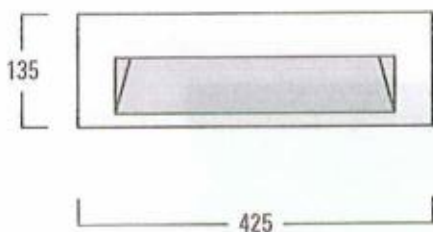
Wandeinbauleuchten

Steplights

ST0279



STI274



Lampen / Lamps

TC-L 24W 2G1

LED 9W

Nominalleistung, aktualisierte Daten siehe www.we-ef.com

Nominal powerfor latest data refer to www.we-ef.com

Schutzart / Protection: IP66

Schutzklasse / Class I, II, ∇ , $t_a = 25^\circ\text{C}$



Wandeinbautöpfe / Blockouts

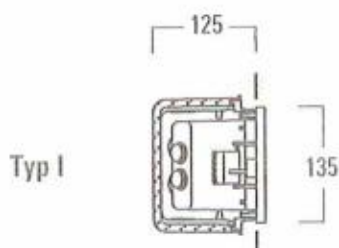
Typ / Type I 133-0217 BST27-I C = 125

Vorwandmontage:

Der Abdeckrahmen sitzt auf dem Mauerwerk auf.

Pre-wallmounting:

Luminaire faceplate rests on wall surface.



Wandeinbautöpfe / Blockouts

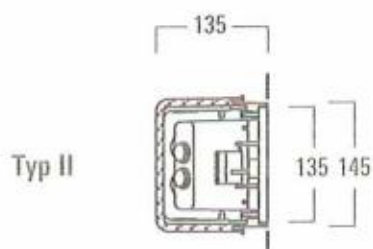
Typ / Type II 133-0219 BST27-II C = 135

Inwandmontage:

Der Abdeckrahmen schließt mit dem Mauerwerk bündig ab.

Inside wallmounting:

For total flush luminaire installation



EX 5

Columns

Columns for Every Environment

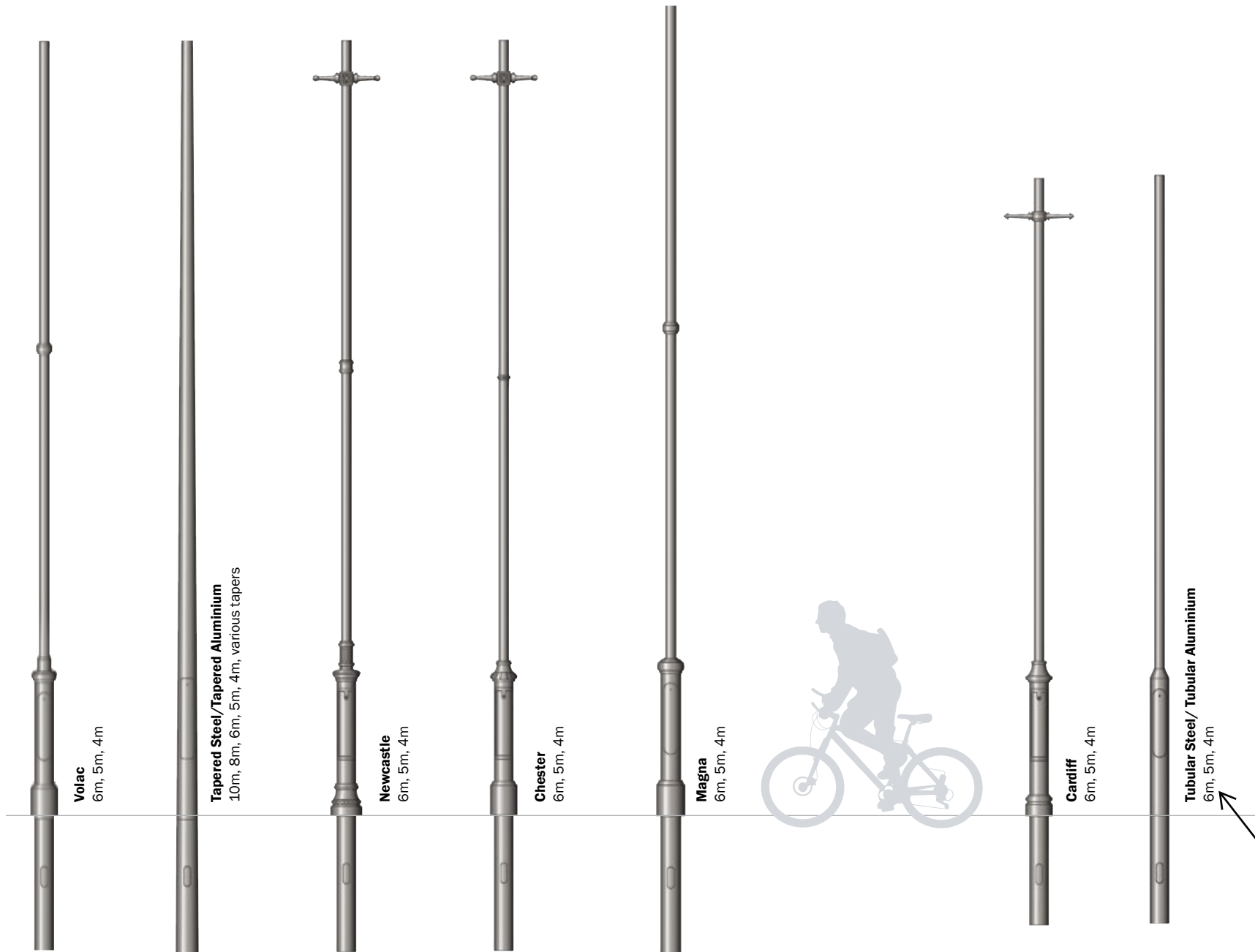
Lighting columns are available in a wide range of styles and sizes to suit just about any application. Whether it's a 5m tubular column carrying a utility luminaire or a bespoke column carrying multiple light sources, unique brackets and a host of additional loads, at DW Windsor we're able to supply columns to meet your needs and vision.

Our expert team are on hand to offer guidance and advice, ensuring your project meets both aesthetic requirement and perhaps more importantly, relevant standards: all of our lighting columns are manufactured using the latest techniques and machinery, designed and manufactured in strict accordance with EN 40.



Rio on 8m tapered column
St. Martins Quarter, Worcester

Standard Columns



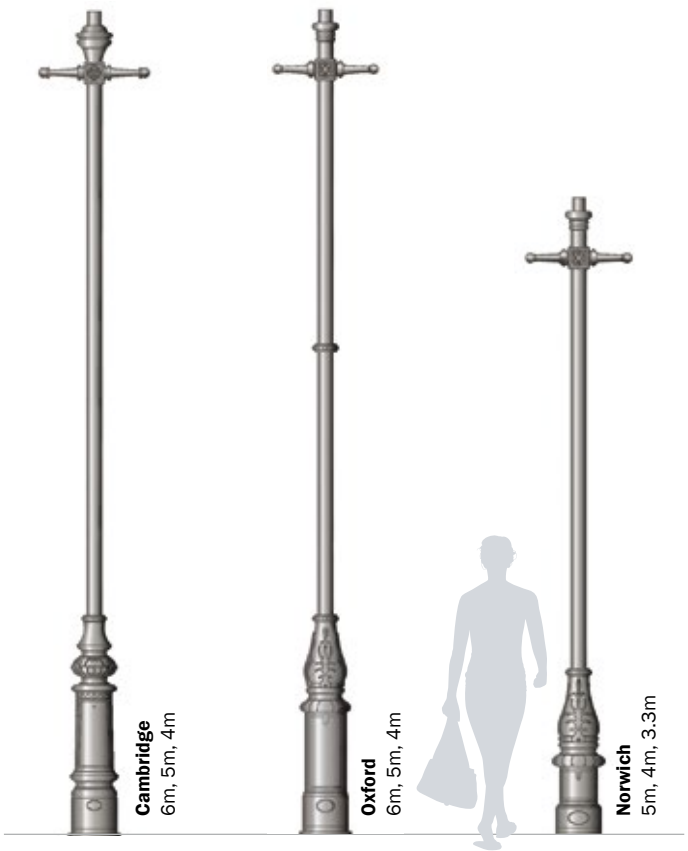
Proposed Column-
6m

Please note that ladder bars are actually fitted at 90° to the door but are shown as above for illustrative purposes.
For the relevant root and flange installation details for the columns illustrated please see page 273



Windsor LED on 4m Oxford column
St Paul's Churchyard, London

Standard
Columns



Please note our Cambridge, Oxford and Norwich column heights are to light source, actual column height does differ. Please refer to page 272 for further information.

All Norwich, Oxford and Cambridge columns up to 6m mounting height have cast bases with flange plate as standard.

Fabricated roots are available for these columns.

Monaro

IP66 | IK09 | CLASS I

Features

- Wide choice of light sources
- LED version provides similar light distribution to Diamond Optic® setting D
- CMS compatible or other control options available
- Direct or side entry mounting
- High quality aluminium construction



Monaro Engineered for longevity

Monaro's low-profile design combines simplicity with functionality. Invisible mounting fixings and flush access latches contribute to a smooth profile to suit any surrounding, from amenity to residential and car park lighting.

Offering optimal road lighting distribution, Monaro is available in a wide range of light sources, including CosmoPolis and LED, providing superior life-time performance. Monaro LED's unique thermal management system extends life further still, with independent testing certifying in excess of 85,000 hours.

With a future-proof (wholly upgradable) design and virtually zero upward light, Monaro assists the environmentally conscious designer with energy control systems such as CMS and dimming options giving additional efficiencies.



Propose mounting-
Top Mounting

AMRC building, Sheffield

Monaro

Product Codes

		Example
1. Model		
MOR		MOR
2. Mounting		
S	Side Entry	D
D	Direct Entry	
3. Glazing		
L	Polycarbonate Low Profile Bowl (up to 90W max)	G
D	Polycarbonate Deep Bowl (100, 140 & 150W only)	
G	Low Profile Toughened Glass (all wattages)	
4. Control Gear – check compatibility with light sources		
E	Electronic Gear: available for all light sources	M
M	Magnetic Gear: certain lamp types only	
5. Light Source		
050S	50W SON-T+/StreetWise	070S
070S	70W SON-T+/CDO-TT/StreetWise	
100S	100W SON-T+/CDO-TT/StreetWise	
150S	150W SON-T+/CDO-TT/StreetWise	
035C*	35W CDM-T	
070C*	70W CDM-T	
150C*	150W CDM-T	
042P	42W PLT	
057P*	57W PLT	
045W	45W CosmoPolis	
060W	60W CosmoPolis	
090W	90W CosmoPolis	
140W	140W CosmoPolis	
6. Colour – for alternative colours see below		
20	RAL 7016 Anthracite Grey	20
7. Diamond Optic® Setting		
A	5/35	C
B	10/10	
C	31/35	
D	5/25	
8. Switching, Dimming & Control – electronic gear is required for dimming and CMS		
N	No Photocell	No Photocell- will be part of lighting control photocell
C	Photocell 70lux (1:0.5)	
U	Photocell 35lux (1:1)	
PS	Part Night Switch Off	
PD	Part Night Dim	
CH	CMS Harvard LeafNut	
CM	CMS Mayflower CLC	
CT	CMS Telensa PLANet	
CZ	CMS Zodion Vizion	
Example Code = MOR D G M 070S 20 C U		

*These lamp types cannot be used with dimming or CMS control

Options

Monaro
For mounting at 4 – 6 metres
Maximum lamp wattage: 150W

Mounting:
Side entry [42mm Ø]
Direct entry [60mm Ø & 76mm Ø]
with 0° & +5° tilt

Glazing:
Polycarbonate low-profile bowl
[up to 90W only]
Polycarbonate deep bowl
[100W and above only]
Pressed low-profile toughened
glass [all wattages]

Gear, switching and control:
Electronic or magnetic gear
Miniature photocell
Compatible with leading Central
Management Systems (CMS)

Light source:
See product codes

Colours:
RAL 9016 White
RAL 9005 Black
RAL 7016 Anthracite Grey
RAL 7037 Dusty Grey
PAN 7621 Metallic Silver
RAL 9006 Textured Aluminium
RAL 9007 Textured Metallic Grey
DB 703 Textured Metallic Dark Grey

Optical control:
Diamond Optic®

Other:
Zebra crossing version available
See page 298 – 301 for details

Materials

Body: High pressure die cast
aluminium

Access: High pressure die cast latch

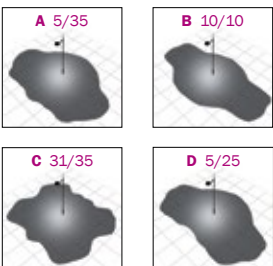
Seals: Single piece silicone

Finish: Polyester powder coated

Installation and Maintenance

Tool-less maintenance via quick
release latch and hinged cover

Diamond Optic®



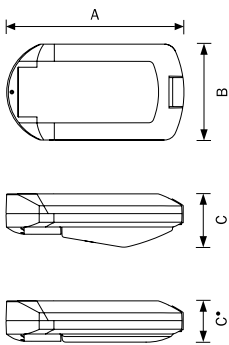
See pages 28 – 31 for details

Proposed Colour

Proposed Lamp

Proposed Setting

No Photocell- will be part of lighting control photocell



Dimensions mm				Weight kg	Windage
A	B	C	C'		
610	330	180	142	13	0.09m²

* with low profile glazing

Monaro

IP66 | IK09 | CLASS I

- Energy saving CMS, dimming and switching options
- LED option available see pages 54 – 55
- Easy clean profile for reduced maintenance

LED



Side entry

Victoria Way, Ashford

EX 7



PROJECT: *FORBURY PLACE*



REFERENCE

1

PRODUCT NAME

Marine

DESCRIPTION

IP67 In ground conventional light source uplighter with die cast housing 316 grade stainless steel bezel & narrow beam distribution. Clear thermal shock resistant tempered glass.

LAMPS

35W CDM-T 3000K

CONTROL GEAR

Fixed Output

EMERGENCY

N / A

DIMENSIONS

LOR

N / A



PROJECT: *FORBURY PLACE*



REFERENCE

2

PRODUCT NAME

Marine

DESCRIPTION

IP67 In ground conventional light source uplighter with die cast housing 316 grade stainless steel bezel & wide beam distribution. Clear thermal shock resistant tempered glass.

LAMPS

35W CDM-T 3000K

CONTROL GEAR

Fixed Output

EMERGENCY

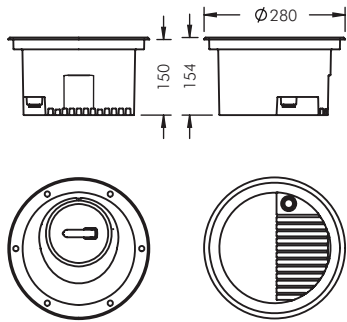
N / A

DIMENSIONS

LOR

N / A

K



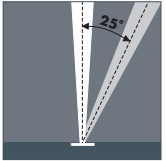
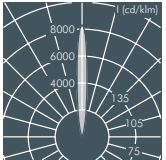
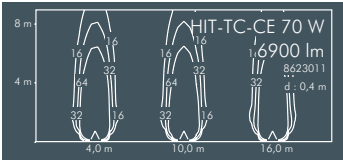
Ground-recessed uplighters
Rotationally symmetrical,
adjustable optics

For ceramic metal halide lamps (HIT-TC-CE), protection class I, IP67 , IK10 cast aluminium housing, double polyester powder coated, rotationally symmetrical aluminium reflector, adjustment range 0-25°, lockable, all exterior steel parts are stainless steel, tempered safety glass flush with trim ring, for loads of up to max. 5000 kg (according to DIN IEC 60598-2-13), silicon gasket, stainless steel trim ring and 6 stainless steel screws, M20 stainless steel cable gland with 0.8 m cable type H05RN-F-3G1, integral LPF control gear, HPF available on request, supplied without lamp

Ground-recessed uplighter, adjustable optics, rotationally symmetrical narrow beam

Part number	Lamp	Lampholder	Temperature*	Tilt range	Beam angle γ
8 623 011 009	HIT-TC-CE 70 W	G8.5	78° C	0 – 25°	10°

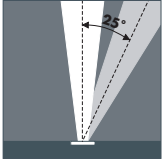
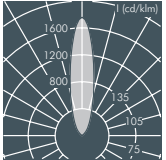
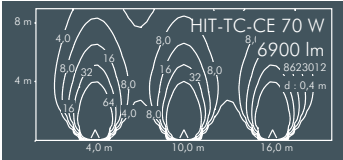
* With the heat block filter (see accessories) the surface temperature of the glass is reduced to **69° C**.



Ground-recessed uplighter, adjustable optics, medium wide beam

Part number	Lamp	Lampholder	Temperature*	Tilt range	Beam angle γ
8 623 012 009	HIT-TC-CE 70 W	G8.5	74° C	0 – 25°	23°

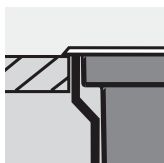
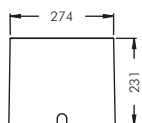
* With the heat block filter (see accessories) the surface temperature of the glass is reduced to **66° C**.



Part number	Description
. . . . 1 . . 009	Luminaire with slip-resistant glass*

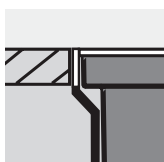
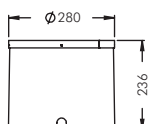
* The light distribution becomes more diffused

Part number	Description
. 069	Luminaire for flush installation (in combination with installation sleeve 126 0250 060)

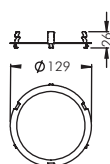


Accessories for ground-recessed uplighters with adjustable optics, narrow and medium wide beam

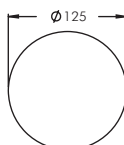
Part number	Description
126 0 250 000	Installation sleeve , polypropylene, for luminaires with overlapping trim ring (for luminaires 009)



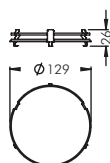
Part number	Description
126 0 250 060	Installation sleeve , polypropylene, for luminaires with trim ring for flush installation (for luminaires 069)



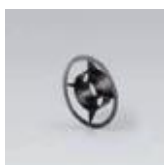
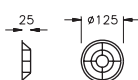
Part number	Description
126 0 238 000	Carrier ring , for colour filters and ribbed glass spreader lense



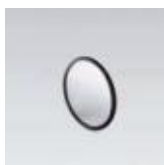
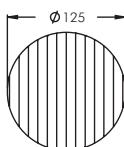
Part number	Colour	Description
126 0 251 000	yellow	Colour filter , in combination with carrier ring
126 0 253 000	blue	
126 0 257 000	red	
126 0 258 000	green	



Part number	Description
126 0 259 000	Heat block filter , set with double filter, to reduce the surface temperature of the glass



Part number	Description
126 0 120 940	Radial louvre , to reduce lateral glare



Accessories for ground-recessed uplighters with adjustable optics, narrow beam

Part number	Description
126 0 122 000	Ribbed glass spreader lense , for linear beam control, continuously adjustable 360°, in combination with carrier ring

Part number	Description
226 0 161 000	Connection box , for single connection of one luminaire or for through wiring with buried cable. For luminaires with cable and installation sleeve.

K 1

CLF2748

COMPACT RECESSED UP-LIGHT PAVER

DATA SHEET



IP67

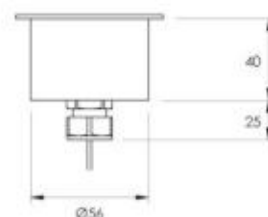
Single Colour or RGB colour change available

SPECIFICATION

Material:	316L Marine grade stainless steel body Toughened 6mm glass cover
Finish:	Machine finish
LED:	Power LEDs
Colour Options:	Warm white - 3100K CRI 90 White - 4100K CRI 85 Cool white - 6500K CRI 70 Blue, Red, Green or Amber @350mA only RGB colour change
Life:	50,000+ hours
Temp.:	-10°C to +40°C
IP Rating:	IP67
Cable length:	0.5 metres (single colour) or 3 metres (RGB)
Lens:	6°, 10°, 15° or 25° lens
Weight (unpacked):	0.5Kg
Cut out:	60mm dia
Power Supply:	Constant current driver
Options:	Installation tube - CRE1213 Anti Glare Louvre and IP68 potting



Compact recessed up-light paver, with three LEDs, a marine grade stainless steel body, toughened glass cover and sealed using a Nitrile 'O' ring



CATALOGUE NUMBER

CLF2748 X XX XXX XX



Ingress protection: RE - Resin potted for IP68
Cover AG - Anti glare louvre
LED colour: WH - White, NW - Neutral white, WW - Warm white
R - Red, G - Green, B - Blue, A - Amber, CC - RGB
Lens: NL - Unlensed, L6 - 6°, L10 - 10°, L15 - 15°, L25 - 25°

Example: CLF2748 NL RGB AG RE is unlensed, RGB LED paver with an anti glare louvre rated at IP68

EX 10



Optics

- Lamp options:
 - 1 x 28W 2D
 - 1 x 38W 2D
- Polycarbonate opal diffuser with positive snap fit

Body

- White flame retardant polycarbonate
- Mounting:
 - Surface or semi-recessed (requires semi-recessing kit)
 - Spacing ring for flush surface mounting
 - Wall or ceiling mounted
- IP54

Order Codes

Lunar	HF Gear	3 hr Emergency
2D 1 x 28W	LUNH128	LUNH128EM
2D 1 x 38W	LUNH138	–

Options

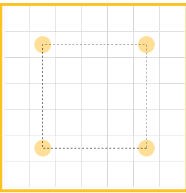
WHITE SPACING RING	LUNSRW
SEMI-RECESSING KIT	LUNSRK



Spacing Ring Detail LUNH28W with LUNSRW

Performance Guide

Lamps	Illuminance	Spacing
1 x 38W	291 lux	2,4m x 2,4m

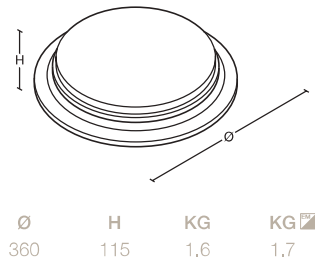


Maintenance:
0.8
Reflectance:
70/50/20
Ceiling Height:
2.7m
Working Plane:
0.8m

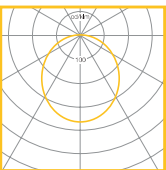
Lamp Performance

Wattage	IL@25°C	Lamp Life
1 x 28W 2D	2150	21,000hrs
1 x 38W 2D	3020	21,000hrs

Dimensions



Photometric Performance



1 x 28W 2D T5
• LOR = 65.5%
• SHR MAX = 1.61

Utilisation Factors UF(F)

Room Reflectance	Room Index
C W F	1.00 3.00 5.00
0.70 0.50 0.20	0.26 0.37 0.40

To Specify

Surface/semi-recessed circular IP54 28/38W 2D luminaire 360mm Ø and 115mm protrusion from surface or 75mm when semi-recessed, Flame retardant polycarbonate diffuser and body. Sealed to IP54 – as Whitecroft Lighting LUNAR