

Technical Communication

TC No: TC-076
Revision: P02
Date: 27/08/2026

Project Ref: 20765-HCO
Project Name: Milnrow Chapel

Info/Action By: Local Planning Authority

Rev P02: 31.08.2026

SUBJECT: PLANNING CONDITION DISCHARGE - EXTERNAL LIGHTING

This document has been prepared to discharge the following Planning Conditions in relation to the Chapel at Hopwood Hall College:

25-00908-VRCON – Condition 10

24-0547-FUL – Condition 16

“No external lighting shall be installed until a scheme which identifies its siting, design and luminosity has been submitted to and approved in writing by the Local Planning Authority. The development shall be completed in accordance with the approved details and retained thereafter.”

The following information has also been issued to support the application:

HCO-SEV-ZZ-ZZ-DR-A-00505-Proposed Site Plan - External Lighting
HCO-SEV-ZZ-ZZ-DR-A-00553-Proposed Elevations - External Lighting - 1 of 2
HCO-SEV-ZZ-ZZ-DR-A-00554-Proposed Elevations - External Lighting - 2 of 2
HHC Chapel - Lighting Design - rev K

Design Philosophy:

The external lighting scheme has been developed with the aim of finding a suitable balance between:

- Sensitivity to the listed building
- Suitable lighting levels for amenity and escape purposes in line with CIBSE requirements
- Robust fittings suited to the College environment (floor mounted fittings are generally not considered to be suitably robust)
- Ecological requirements (see below)
- Budget constraints to ensure the scheme is economically viable

For reference, please see below the lighting recommendations set out in the previously approved Preliminary Ecological Appraisal. These measures have been incorporated into the proposed scheme. The project Ecologist (Collington Winter) has also reviewed the proposal and confirmed that the proposed lighting meets the specifications and based on the contour maps it shouldn't be illuminating any of the valuable habitats.

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Manchester	0161 2365655
Harrogate	01423 709807
Caernarfon	01286 685253

4.1.21. The following measures should be implemented in the final produced lighting strategy, following guidance outlined in the Institute for Lighting Engineers document "Guidance for the Reduction of Obstructive Lighting" (2005) and BCT's "Bats and Artificial Lighting at Night" (2023):

- Keep site lighting to minimum levels.
- LED lighting with a warm white light to be used over cool white light (>2700Kelvin).
- Lighting should feature peak wavelengths greater than 550nm.
- Light placement should be downward facing to prevent excess horizontal or vertical light spill.
- Avoid illuminating habitats of value (i.e. surrounding woodland and bat boxes).
- Use of timed security lights should be set on motion-sensors and using short, 1-minute timers, to minimise light use.

Proposed Fittings:

Please see below details of the proposed fittings shown on the submitted Plan and Elevations. Datasheets for each type of fitting are also included at the end of this document.

L02 - New Wall Mounted Downlights

- Positioned close to entrances and along sloping access route for amenity and escape lighting
- Proposed Fitting = Ansell Lighting "Reef M Directional Wall Light". Colour: Black
- Fixing Height = CL approx.. 1.9m above FFL
- Proposed Fixing Methodology:
 - All fittings to be fixed into mortar joints to the existing blockwork walls with suitable stainless steel fixings
 - Existing holes through historic fabric are to be utilised as far as possible
 - Where new holes are required through historic fabric to route cable runs these are to be kept to an absolute minimum size and taken through mortar joints. No holes to be made through blockwork or concrete.



Reef



Part of the Wall Lights product category

Model	Reef M Directional Wall Light Black
Code	AREFM/D/B/1
Application	Commercial, Education, Healthcare, Hospitality, Outdoor, Retail

GENERAL INFORMATION	
Input	220-240V
Wattage	13.5W
Operating Temp	-25°C - 40°C
Lumens Delivered	1500lm (4000K)
lm/W	110lm/W (4000K)
CCT	3000K/4000K
Beam Angle	85

MATERIAL INFORMATION	
Main Material	Aluminium
Diffuser Material	Polycarbonate
Product Weight without	1.07 kg
Packaging	
Colour / Finish	Black
Diameter	111 mm

TECHNICAL INFORMATION	
Class Protection	1
Light Source	LED
SDCM (Initial Macadam)	3
CRI	80
Internal / External	External
Surface / Recessed / Suspended	Wall
Power Factor	0.9
L70 @ 25°C	L70 198,000h

- | PRODUCT FEATURES | |
|---|--|
| <ul style="list-style-type: none">• Medium sized durable outdoor wall light suitable for commercial and hospitality applications• Die cast aluminium & polycarbonate construction• CCT selectable between 3000K and 4000K• WAGO park area in the base for quick and efficient wiring• Interchangeable Gobo inserts, allowing for a variety of decorative beam angle light effects | |

ACCESSORIES	
AREFM/CWL/B/1	Reef M Cowl Black



L03 – Bollards - Colour: Black

- Positioned to rear and side of Chapel
- Proposed Fitting = Ansell Lighting "Aries" Colour: Black
- Height = 0.9m

**Aries**

Part of the Bollards product category



Model Aries Bollard 900mm Warm White Graphite
Code AARIES/900/GR/WW
Application Hospitality, Outdoor, Residential, Retail

GENERAL INFORMATION

Input	220-240V
Wattage	20W
Operating Temp	-20°C - 40°C
Lumens Delivered	1300lm
lm/W	65lm/W
CCT	3000K
Beam Angle	360

MATERIAL INFORMATION

Main Material	Aluminium
Diffuser Material	Glass
Product Weight without Packaging	6 kg
Colour / Finish	Graphite
Height	904 mm

TECHNICAL INFORMATION

Class Protection	1
Light Source	LED
SDCM (Initial Macadam)	3
CRI	80
Internal / External	External
Surface / Recessed / Suspended	Floor
Power Factor	0.9
L70 @ 25°C	L70 B50 50,000h

PRODUCT FEATURES

- Robust die-cast aluminium bollard with a choice of textured finishes suitable for commercial applications
- Supplied c/w root mounting kit
- Non-dimmable

**L04 – Lamp Posts - Colour: Black**

- Positioned to rear and side of Chapel
- Proposed Fitting = Kingfisher Lighting "VIVA City Pro". Colour: Black
- Fixing Height = 5m
- The use of lamp posts will avoid further wall mounted fixings to the historic fabric
- The use of lamp posts will allow adequate lighting levels to be achieved for amenity and escape purposes in accordance with CIBSE guidance for Schools, creating a safe environment during hours of darkness.
- The new lamp posts would be 5m high (for reference the parapet height of the Chapel is approx. 5.5m). On this basis we do not feel that these would have a detrimental impact on the setting of the Chapel in the locations proposed.
- The new lamp posts are positioned to the rear and side of the Chapel where they are the least visually intrusive in views towards the Chapel. We have kept the bollard fittings as previously shown to the main frontage of the Chapel.
- To keep the number of posts to a minimum the lighting designer has advised that two fittings will be required to each post to allow the lighting levels to be achieved.
- The proposed fittings are DarkSky Approved - these will emit light downwards, reducing light pollution to the area surrounding the Chapel

VIVA-CITY Pro



Specification Text

The VIVA-CITY Pro shall be manufactured from die-cast aluminium and powder coated in RAL 7016 Marine Grade finish. It shall have a power output ranging between 10 - 180W, with an efficacy of 66 - 150lm/W. The luminaire shall deliver 662 - 24,840 luminaire lumens. It shall have a fully programmable DALI driver. Available in 2700K or 4000K, the luminaire shall be IK08 and IP66 rated. It shall have photocell options available.

For DarkSky Specifications, the luminaire shall produce a CCT of 2700K.



Specification

Weight: 5.1 - 10.5 kg
Windage: 0.06 - 0.09 m²
Material: Die-cast Aluminium
Paint Finish: RAL7016 Anthracite Grey
Embodied Carbon: 89 - 182 kg CO₂e

Product Description

Designed and Engineered in the UK, the VIVA-CITY Pro is a slimline luminaire featuring innovative optical systems to reduce light pollution within projects.



Key Features

- 10.0W - 180.0W
- 662 - 24,840 Luminaire Lumens
- Efficacy up to 150.0 lm/W
- 2700K, 4000K, CRI>70
- IP66, IK08
- Lifetime > 100,000hr, L80
- DarkSky Approved
- Photocell Option
- 3 Hour Integral Emergency

Optics



Forward Throw Optic 70°
Open areas perimeter lighting



Street Optic 70°
Roadways, pathways and narrow areas



Spill Shield Street Optic 70°
Roadways, pathways and narrow areas limiting obtrusive light



Spill Shield Forward Throw Optic 70°
Open areas perimeter lighting limiting obtrusive light



Circular Economy Score	
0 to 0.05	Very poor circular economy performance
0.5 to 1.5	Some circular economy functionality
1.5 to 2.5	Definite/substantial progress to circularity
2.5 to 4.0	Excellent circularity

Other Options Available

Contact for further details

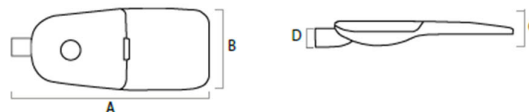
- Colour Temperatures: 2700K, 4000K
- Photocell
- Emergency
- Full Control Capabilities
- Dim to Warm

Mounting Options

- Post Top 60/76mm, Side Entry 60/76mm

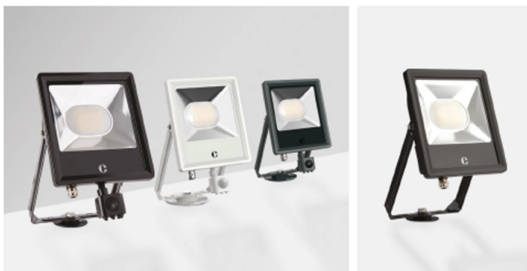
Body Type	A	B	C	D
Body Size 1 - 10, 20W	520	200	106	60/76
Body Size 2 - 40, 60, 80W	625	288	102	60/76
Body Size 3 - 120, 180W	775	320	102	60/76

All measurements in mm



L05 - New Wall Mounted Security Lights

- Positioned to rear of Chapel for security lighting to work alongside new CCTV installation which will also be installed to the perimeter of the building
- Proposed Fitting = Collingwood Lighting "FL05". Colour: Black
- Proposed Controls = PIR sensor on 1 minute timer to minimise light use
- Fixing Height = CL approx. 3.5m above ground level (to suit blockwork joints)
- Proposed Fixing Methodology:
 - All fittings to be fixed into mortar joints to the existing blockwork walls with suitable stainless steel fixings
 - Existing holes through historic fabric are to be utilised as far as possible
 - Where new holes are required through historic fabric to route cable runs these are to be kept to an absolute minimum size and taken through mortar joints. No holes to be made through blockwork or concrete.



FL05

50W colour switchable floodlight

FEATURES

IP rating	IP65
IK rating	IK07
CSP Switchable	Switchable CCT
Tilttable (°)	180
Sensor Option	PIR
Dimmable Option	No
LED Lifetime	L70 50,000h
Colour Rendering Index	CRI 80
Colour Consistency	SDCM4
Rotation angle (°)	360

INSTALLATION INFORMATION

Input	220-240V AC
Maximum Ambient Temperature	-40°C - 40°C
Weight	1250g
Inrush Current	25A 130µs
Construction Material	Black painted cast aluminium
Electric Class (1, 2, 3)	1
Earth Leakage	0.1
Suitable for coastal areas	Yes
Install Connector Type	Flying lead
UK Building Regulations	N/A
Mounting Options	Wall
Power Factor	0.5

Photometrics @ 25°C

Product Code	Finish	Type	Beam	W	Colour	lm	lm/W	lm/ftm	Energy
FLO5XCS	Black	Standard	120°	50W	3000K	5000	100	2230	
					4000K	5600	112	2449	
					6500K	5100	102	2230	
FLO5BPCS	Black	PIR sensor	120°	50W	3000K	5000	100	2230	
					4000K	5600	112	2449	
					6500K	5100	102	2230	
FLO5WPCS	White RAL9016	Standard	120°	50W	3000K	5000	100	2230	
					4000K	5600	112	2449	
					6500K	5100	102	2230	
FLO5WPCS	White RAL9016	PIR sensor	120°	50W	3000K	5000	100	2230	
					4000K	5600	112	2449	
					6500K	5100	102	2230	
FLO5AXCS	Anthracite grey RAL7016	Standard	120°	50W	3000K	5000	100	2230	
					4000K	5600	112	2449	
					6500K	5100	102	2230	
FLO5APCS	Anthracite grey RAL7016	PIR sensor	120°	50W	3000K	5000	100	2230	
					4000K	5600	112	2449	
					6500K	5100	102	2230	

Energy rating is a reflection of the LED light source.

WIRING INFORMATION

Cable / Flying Lead	1m H05RN-F rubberised cable 3x1.0mm² Ø7mm
Type of Wiring Required	Parallel
Input Cable Type	3x1.0mm²

ACCESSORIES

01604 496 181 sales@collingwoodarous.com collingwoodlighting.com

COLLINGWOOD
LIGHTING

LIGHTING INNOVATION

High efficacy of up to 112lm/W

First fix bracket for quick & easy installation

Ideal for coastal areas

WARRANTY

Warranty 5 years

FEATURES & BENEFITS

Colour switchable between 3 colour temperatures

IP65 rated, meaning it provides optimum protection against the impacts of rainwater and general adverse weather conditions.

A unique 360° rotation for total flexibility, and a 180° tilt

Supplied with 1m cable

Wide 120° beam angle, reducing the number of fittings per area required

Performs in even more extreme conditions from -40°C to +40°C

IP65 PIR option provides override function to leave permanently on or off

BEAM ANGLE: 120°



Reef



Part of the Wall Lights product category

Model	Reef M Directional Wall Light Black
Code	AREFM/D/B/1
Application	Commercial, Education, Healthcare, Hospitality, Outdoor, Retail

GENERAL INFORMATION

Input	220-240V
Wattage	13.5W
Operating Temp	-25°C - 40°C
Lumens Delivered	1500lm (4000K)
lm/W	110lm/W (4000K)
CCT	3000K/4000K
Beam Angle	85

MATERIAL INFORMATION

Main Material	Aluminium
Diffuser Material	Polycarbonate
Product Weight without Packaging	1.07 kg
Colour / Finish	Black
Diameter	111 mm

TECHNICAL INFORMATION

Class Protection	1
Light Source	LED
SDCM (Initial Macadam)	3
CRI	80
Internal / External	External
Surface / Recessed / Suspended	Wall
Power Factor	0.9
L70 @ 25°C	L70 198,000h

PRODUCT FEATURES

- Medium sized durable outdoor wall light suitable for commercial and hospitality applications
- Die cast aluminium & polycarbonate construction
- CCT selectable between 3000K and 4000K
- WAGO park area in the base for quick and efficient wiring
- Interchangeable Gobo inserts, allowing for a variety of decorative beam angle light effects

ACCESSORIES

AREFM/CWL/B/1	Reef M Cowl Black
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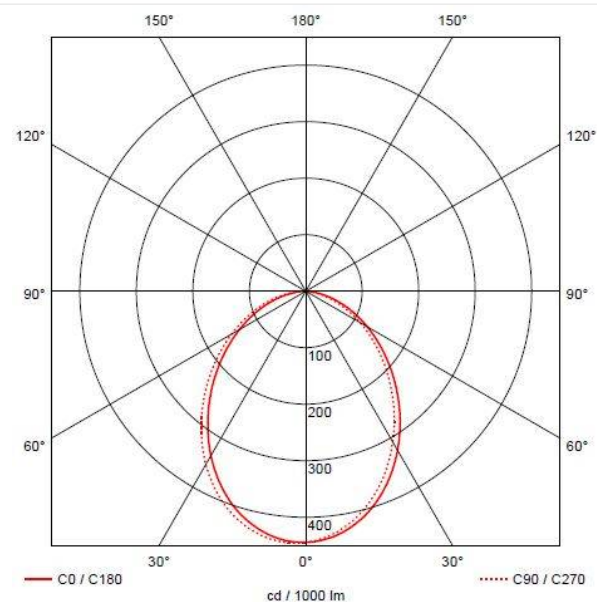
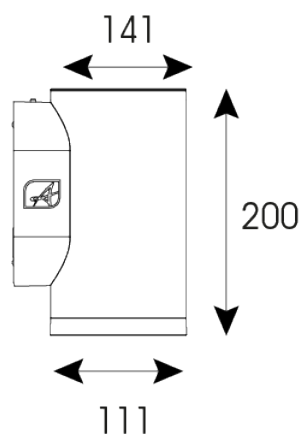


Reef



Part of the Wall Lights product category

Model	Reef M Directional Wall Light Black
Code	AREFM/D/B/1
Application	Commercial, Education, Healthcare, Hospitality, Outdoor, Retail





Aries



Part of the Bollards product category

Model	Aries Bollard 900mm Warm White Graphite
Code	AARIES/900/GR/WW
Application	Hospitality, Outdoor, Residential, Retail

GENERAL INFORMATION

Input	220-240V
Wattage	20W
Operating Temp	-20°C - 40°C
Lumens Delivered	1300lm
lm/W	65lm/W
CCT	3000K
Beam Angle	360

MATERIAL INFORMATION

Main Material	Aluminium
Diffuser Material	Glass
Product Weight without Packaging	6 kg
Colour / Finish	Graphite
Height	904 mm

TECHNICAL INFORMATION

Class Protection	1
Light Source	LED
SDCM (Initial Macadam)	3
CRI	80
Internal / External	External
Surface / Recessed / Suspended	Floor
Power Factor	0.9
L70 @ 25°C	L70 B50 50,000h

PRODUCT FEATURES

- Robust die-cast aluminium bollard with a choice of textured finishes suitable for commercial applications
- Supplied c/w root mounting kit
- Non-dimmable



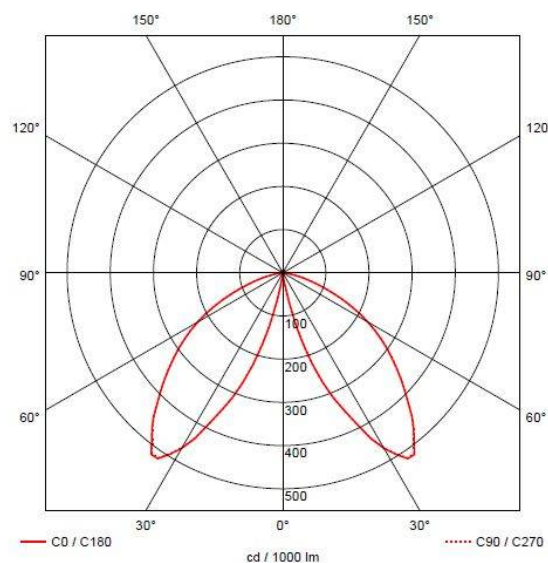
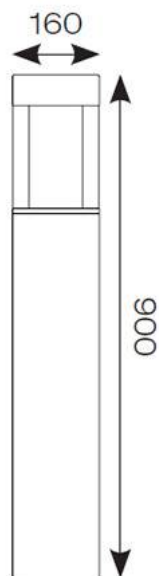


Aries



Part of the Bollards product category

Model	Aries Bollard 900mm Warm White Graphite
Code	AARIES/900/GR/WW
Application	Hospitality, Outdoor, Residential, Retail





Kingfisher Lighting

Part of the LUCECO group of companies

Datasheet

VIVA-CITY Pro



Specification Text

The VIVA-CITY Pro shall be manufactured from die-cast aluminium and powder coated in RAL 7016 Marine Grade finish. It shall have a power output ranging between 10 - 180W, with an efficacy of 66 - 150lm/W. The luminaire shall deliver 662 - 24,840 luminaire lumens. It shall have a fully programmable DALI driver. Available in 2700K or 4000K, the luminaire shall be IK08 and IP66 rated. It shall have photocell options available.

For DarkSky Specifications, the luminaire shall produce a CCT of 2700K.



Specification

Weight:	5.1 - 10.5 kg
Windage:	0.06 - 0.09 m ²
Material:	Die-cast Aluminium
Paint Finish:	RAL7016 Anthracite Grey
Embodied Carbon:	89 - 182 kg CO ₂ e

Product Description

Designed and Engineered in the UK, the VIVA-CITY Pro is a slimline luminaire featuring innovative optical systems to reduce light pollution within projects.



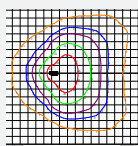
Kingfisher Lighting

Part of the LUCECO group of companies

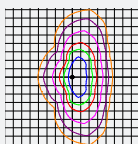
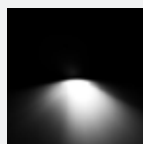
Key Features

- 10.0W - 180.0W
- 662 - 24,840 Luminaire Lumens
- Efficacy up to 150.0 lm/W
- 2700K, 4000K, CRI>70
- IP66, IK08
- Lifetime > 100,000hr, L80
- DarkSky Approved
- Photocell Option
- 3 Hour Integral Emergency

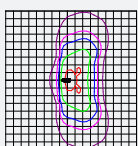
Optics



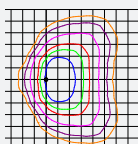
Forward Throw Optic 70°
Open areas perimeter lighting



Street Optic 70°
Roadways, pathways and narrow areas



Spill Shield Street Optic 70°
Roadways, pathways and narrow areas limiting obtrusive light



Spill Shield Forward Throw Optic 70°
Open areas perimeter lighting limiting obtrusive light



Circular Economy Score

0 to 0.05	Very poor circular economy performance
0.5 to 1.5	Some circular economy functionality
1.5 to 2.5	Definite/substantial progress to circularity
2.5 to 4.0	Excellent circularity

Other Options Available

Contact for further details

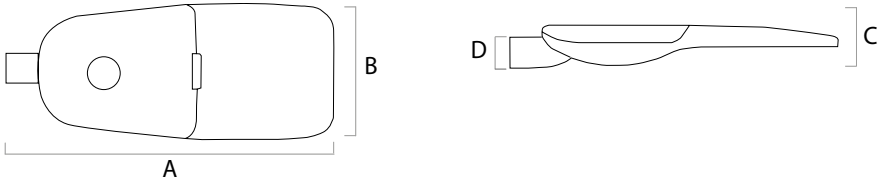
- Colour Temperatures: 2700K, 4000K
- Photocell
- Emergency
- Full Control Capabilities
- Dim to Warm

Mounting Options

- Post Top 60/76mm, Side Entry 60/76mm

Body Type	A	B	C	D
Body Size 1 - 10, 20W	520	200	106	60/76
Body Size 2 - 40, 60, 80W	625	288	102	60/76
Body Size 3 - 120, 180W	775	320	102	60/76

All measurements in mm



Code	Power (W)	Luminaire Lumens (lm)	Drive Current (mA)	Inrush Current (A pk)	Inrush Duration	Units per B16 MCB	CCT(K)	IP	IK	Weight (kg)	Driver Included	Driver Type
Asymmetrical Street Optic - 70°												AY70
VCYP-AY70-4.4-10D-02	10.0	1177	400	9.2	253	44	4000	IP66	IK08	5.1	Yes	DALI
VCYP-AY70-27.4-10D-02	10.0	1117	400	9.2	253	44	2700	IP66	IK08	5.1	Yes	DALI
VCYP-AY70-4.8-20D-02	20.0	2699	840	14.9	226	30	4000	IP66	IK08	5.1	Yes	DALI
VCYP-AY70-27.8-20D-02	20.0	2561	840	14.9	226	30	2700	IP66	IK08	5.1	Yes	DALI
VCYP-AY70-4.10-40D-02	40.0	5880	1050	24.9	236	20	4000	IP66	IK08	7.6	Yes	DALI
VCYP-AY70-27.10-40D-02	40.0	5579	1050	24.9	236	20	2700	IP66	IK08	7.6	Yes	DALI
VCYP-AY70-4.6-60D-02	60.0	8844	610	32.0	355	10	4000	IP66	IK08	7.6	Yes	DALI
VCYP-AY70-27.6-60D-02	60.0	8392	610	32.0	355	10	2700	IP66	IK08	7.6	Yes	DALI
VCYP-AY70-4.8-80D-02	80.0	11120	800	41.6	238	10	4000	IP66	IK08	7.6	Yes	DALI
VCYP-AY70-27.8-80D-02	80.0	10551	800	41.6	238	10	2700	IP66	IK08	7.6	Yes	DALI
VCYP-AY70-4.6-120D-02	120.0	17828	620	65.0	268	5	4000	IP66	IK08	10.5	Yes	DALI
VCYP-AY70-27.6-120D-02	120.0	16916	620	65.0	268	5	2700	IP66	IK08	10.5	Yes	DALI
VCYP-AY70-4.9-180D-02	180.0	24840	900	80.0	225	8	4000	IP66	IK08	10.5	Yes	DALI
VCYP-AY70-27.9-180D-02	180.0	23569	900	80.0	225	8	2700	IP66	IK08	10.5	Yes	DALI
Asymmetrical Forward Throw Optic - 70°												FW70
VCYP-FW70-4.4-10D-02	10.0	1149	400	9.2	253	44	4000	IP66	IK08	5.1	Yes	DALI
VCYP-FW70-27.4-10D-02	10.0	1090	400	9.2	253	44	2700	IP66	IK08	5.1	Yes	DALI
VCYP-FW70-4.8-20D-02	20.0	2655	840	14.9	226	30	4000	IP66	IK08	5.1	Yes	DALI
VCYP-FW70-27.8-20D-02	20.0	2519	840	14.9	226	30	2700	IP66	IK08	5.1	Yes	DALI
VCYP-FW70-4.10-40D-02	40.0	5532	1050	24.9	236	20	4000	IP66	IK08	7.6	Yes	DALI
VCYP-FW70-27.10-40D-02	40.0	5249	1050	24.9	236	20	2700	IP66	IK08	7.6	Yes	DALI
VCYP-FW70-4.6-60D-02	60.0	8760	610	32.0	355	10	4000	IP66	IK08	7.6	Yes	DALI
VCYP-FW70-27.6-60D-02	60.0	8312	610	32.0	355	10	2700	IP66	IK08	7.6	Yes	DALI
VCYP-FW70-4.8-80D-02	80.0	11040	800	41.6	238	10	4000	IP66	IK08	7.6	Yes	DALI
VCYP-FW70-27.8-80D-02	80.0	10475	800	41.6	238	10	2700	IP66	IK08	7.6	Yes	DALI
VCYP-FW70-4.6-120D-02	120.0	17760	620	65.0	268	5	4000	IP66	IK08	10.5	Yes	DALI
VCYP-FW70-27.6-120D-02	120.0	16851	620	65.0	268	5	2700	IP66	IK08	10.5	Yes	DALI
VCYP-FW70-4.9-180D-02	180.0	24660	900	80.0	225	8	4000	IP66	IK08	10.5	Yes	DALI
VCYP-FW70-27.9-180D-02	180.0	23398	900	80.0	225	8	2700	IP66	IK08	10.5	Yes	DALI

Code	Power (W)	Luminaire Lumens (lm)	Drive Current (mA)	Inrush Current (A pk)	Inrush Duration	Units per B16 MCB	CCT(K)	IP	IK	Weight (kg)	Driver Included	Driver Type
Asymmetrical Street Optic w/ Shield - 70°												AYB70
VCYP-AYB70-4.4-10DSHIELD-02	10.0	698	400	9.2	253	44	4000	IP66	IK08	5.1	Yes	DALI
VCYP-AYB70-27.4-10DSHIELD-02	10.0	662	400	9.2	253	44	2700	IP66	IK08	5.1	Yes	DALI
VCYP-AYB70-4.8-20DSHIELD-02	20.0	1601	840	14.9	226	30	4000	IP66	IK08	5.1	Yes	DALI
VCYP-AYB70-27.8-20DSHIELD-02	20.0	1519	840	14.9	226	30	2700	IP66	IK08	5.1	Yes	DALI
VCYP-AYB70-4.10-40DSHIELD-02	40.0	3487	1050	24.9	236	20	4000	IP66	IK08	7.6	Yes	DALI
VCYP-AYB70-27.10-40DSHIELD-02	40.0	3308	1050	24.9	236	20	2700	IP66	IK08	7.6	Yes	DALI
VCYP-AYB70-4.6-60DSHIELD-02	60.0	5244	610	32.0	355	10	4000	IP66	IK08	7.6	Yes	DALI
VCYP-AYB70-27.6-60DSHIELD-02	60.0	4976	610	32.0	355	10	2700	IP66	IK08	7.6	Yes	DALI
VCYP-AYB70-4.8-80DSHIELD-02	80.0	6594	800	41.6	238	10	4000	IP66	IK08	7.6	Yes	DALI
VCYP-AYB70-27.8-80DSHIELD-02	80.0	6257	800	41.6	238	10	2700	IP66	IK08	7.6	Yes	DALI
VCYP-AYB70-4.6-120DSHIELD-02	120.0	10572	620	65.0	268	5	4000	IP66	IK08	10.5	Yes	DALI
VCYP-AYB70-27.6-120DSHIELD-02	120.0	10031	620	65.0	268	5	2700	IP66	IK08	10.5	Yes	DALI
VCYP-AYB70-4.9-180DSHIELD-02	180.0	14730	900	80.0	225	8	4000	IP66	IK08	10.5	Yes	DALI
VCYP-AYB70-27.9-180DSHIELD-02	180.0	13977	900	80.0	225	8	2700	IP66	IK08	10.5	Yes	DALI
Asymmetrical Forward Throw Optic w/ Shield - 70°												FWB70
VCYP-FWB70-4.4-10DSHIELD-02	10.0	892	400	9.2	253	44	4000	IP66	IK08	5.1	Yes	DALI
VCYP-FWB70-27.4-10DSHIELD-02	10.0	846	400	9.2	253	44	2700	IP66	IK08	5.1	Yes	DALI
VCYP-FWB70-4.8-20DSHIELD-02	20.0	2060	840	14.9	226	30	4000	IP66	IK08	5.1	Yes	DALI
VCYP-FWB70-27.8-20DSHIELD-02	20.0	1955	840	14.9	226	30	2700	IP66	IK08	5.1	Yes	DALI
VCYP-FWB70-4.10-40DSHIELD-02	40.0	4293	1050	24.9	236	20	4000	IP66	IK08	7.6	Yes	DALI
VCYP-FWB70-27.10-40DSHIELD-02	40.0	4073	1050	24.9	236	20	2700	IP66	IK08	7.6	Yes	DALI
VCYP-FWB70-4.6-60DSHIELD-02	60.0	6798	610	32.0	355	10	4000	IP66	IK08	7.6	Yes	DALI
VCYP-FWB70-27.6-60DSHIELD-02	60.0	6450	610	32.0	355	10	2700	IP66	IK08	7.6	Yes	DALI
VCYP-FWB70-4.8-80DSHIELD-02	80.0	8567	800	41.6	238	10	4000	IP66	IK08	7.6	Yes	DALI
VCYP-FWB70-27.8-80DSHIELD-02	80.0	8129	800	41.6	238	10	2700	IP66	IK08	7.6	Yes	DALI
VCYP-FWB70-4.6-120DSHIELD-02	120.0	13782	620	65.0	268	5	4000	IP66	IK08	10.5	Yes	DALI
VCYP-FWB70-27.6-120DSHIELD-02	120.0	13077	620	65.0	268	5	2700	IP66	IK08	10.5	Yes	DALI
VCYP-FWB70-4.9-180DSHIELD-02	180.0	19136	900	80.0	225	8	4000	IP66	IK08	10.5	Yes	DALI
VCYP-FWB70-27.9-180DSHIELD-02	180.0	18157	900	80.0	225	8	2700	IP66	IK08	10.5	Yes	DALI



FL05

50W colour switchable floodlight

FEATURES

IP rating	IP65
IK rating	IK07
CSP Switchable	Switchable CCT
Tiltable (°)	180
Sensor Option	PIR
Dimmable Option	No
LED Lifetime	L70 50,000h
Colour Rendering Index	CRI>80
Colour Consistency	SDCM4
Rotation angle (°)	360

INSTALLATION INFORMATION

Input	220-240V AC
Maximum Ambient Temperature	-40°C - 40°C
Weight	1250g
Inrush Current	28A 13ms
Construction Material	Black painted cast aluminium
Electric Class (1, 2, 3)	I
Earth Leakage	0.1
Suitable for coastal areas	Yes
Install Connector Type	Flying lead
UK Building Regulations	N/A
Mounting Options	Wall
Power Factor	0.5

Photometrics @ 25°C

Product Code	Finish	Type	Beam	W	Colour	lm	lm/W	lx@1m	Energy
FL05BXCS	Black	Standard	120°	50W	3000K	5000	100	2230	
					4000K	5600	112	2449	
					6500K	5100	102	2230	
FL05BPCS	Black	PIR sensor	120°	50W	3000K	5000	100	2230	
					4000K	5600	112	2449	
					6500K	5100	102	2230	
FL05WXCS	White RAL9016	Standard	120°	50W	3000K	5000	100	2230	
					4000K	5600	112	2449	
					6500K	5100	102	2230	
FL05WPCS	White RAL9016	PIR sensor	120°	50W	3000K	5000	100	2230	
					4000K	5600	112	2449	
					6500K	5100	102	2230	
FL05AXCS	Anthracite grey RAL7016	Standard	120°	50W	3000K	5000	100	2230	
					4000K	5600	112	2449	
					6500K	5100	102	2230	
FL05APCS	Anthracite grey RAL7016	PIR sensor	120°	50W	3000K	5000	100	2230	
					4000K	5600	112	2449	
					6500K	5100	102	2230	

Energy rating is a reflection of the LED light source.

WIRING INFORMATION

Cable / Flying Lead	1m H05RN-F rubberised cable 3x1.0mm ² Ø7mm
Type of Wiring Required	Parallel
Input Cable Type	3x 1.0mm ²

ACCESSORIES

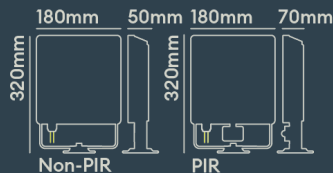
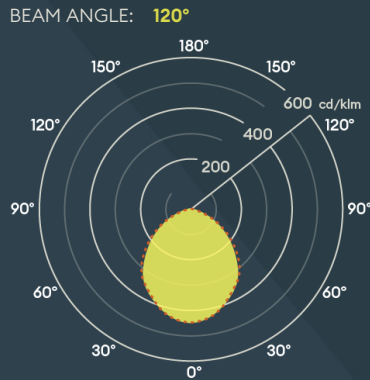
- High efficacy of up to 112lm/W
- First fix bracket for quick & easy installation
- Ideal for coastal areas

WARRANTY

Warranty 5 years

FEATURES & BENEFITS

- Colour switchable between 3 colour temperatures
- IP65 rated, meaning it provides optimum protection against the impacts of rainwater and general adverse weather conditions
- A unique 360° rotation for total flexibility, and a 180° tilt
- Supplied with 1m cable
- Wide 120° beam angle, reducing the number of fittings per area required
- Performs in even more extreme conditions from -40°C to +40°C
- IP65 PIR option provides override function to leave permanently on or off



N/A (No Accessories required)



COLLINGWOOD
LIGHTING

LIGHTING INNOVATION

With a wide 120° beam angle and a unique 360° rotation, this 50W flicker-free floodlight is the ideal solution for outdoor use, lighting large areas, courtyards and entrances or for uplighting trees and buildings. With a market leading efficacy and contemporary black cast aluminium body, this colour switchable light is a versatile solution for your space. Choose the PIR sensor option for added security and reduction of energy bills in highly trafficked areas.