Briggs & Forrester
SPECIAL PROJECTS LTD

Technical Submission Sheet

Contract Title: Kingston University data Center	Contract No: SP4863

Originator: M Harris	Submission Ref: TSE 01
Issued To: Tom Francis	Date: 24/10/24
Drawing Ref: Dextra mark up	Attachments: Lamp Posts external Lighting drawing ref B

Items for approval:

Please see below the data sheets for the external lamp posts proposed for One Leisure center Huntingdon

As marked B on the drawing attached.

Reply:

Signed:	Date:
On behalf of:	

Kingfisher Lighting

Part of the LUCECO plc group of companies

Datasheet



Columns

A comprehensive range of tubular, conical and hinged columns, for road & transport, car parks, residential and urban landscapes.

Experts in columns

- Wide range of columns and masts
- Design facility to help you specify
- Support to match the columns with luminaires and brackets
- Column key and door spares available

Maintained stock levels

- Extensive stock of most columns held at our warehouse
- In-house fabrication and finishing options

Nation-wide delivery

- Hi-ab equipment to enable fast and safe off-loading
- Fleet fitted with trackers to monitor deliveries
- Helpful drivers who handle the on-site deliveries
- Free delivery on orders over £500 within mainland GB

High quality standards

- Designed in accordance with BS EN40
- Manufactured from steel tube to EN10210

What to consider when designing with columns

BS EN40 provides a detailed framework for the design of a lighting column and provides key considerations when designing an exterior lighting scheme to ensure the structural integrity of the column.

A lighting column design must take into account (in relationship to mounting height):

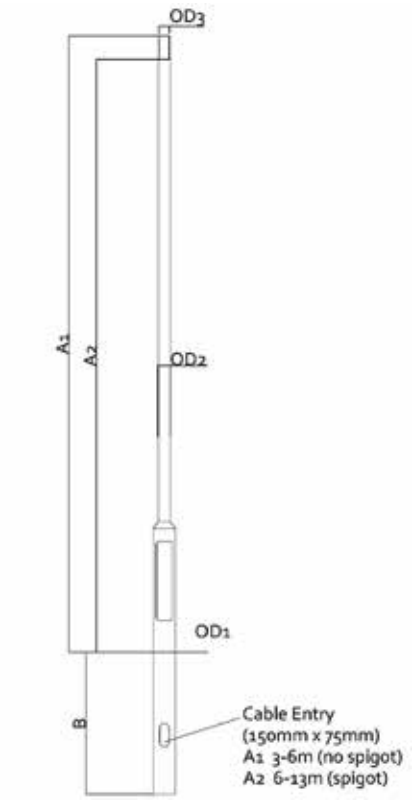
- Weight and windage of the luminaire and bracket
- Wind speed
- Site altitude
- Site terrain and topography

When this information is not readily available, PD 6547:2004 may be used for guidance. This document contains informative data relating to the administrative areas of the UK, providing a rationalised wind loading factor (RWF) for each location. Please contact us for more information.

Tubular columns (3m - 12m)

A range of tubular lighting columns suitable for road, residential and general amenity areas. Available root mounted or flange plated.

Tubular



Conical lighting columns (4m - 8m)

An aesthetic range of conical lighting columns suitable for residential and amenity areas. Available root mounted or flange plated..

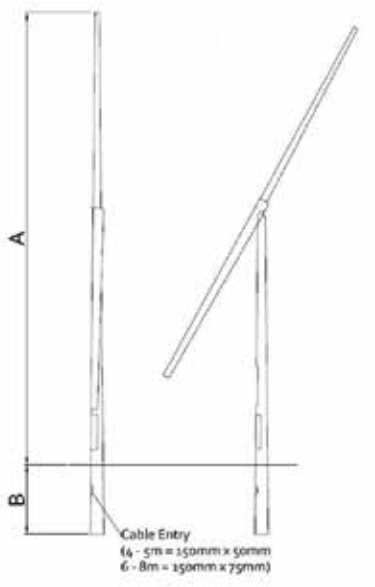
Conical



Mid-hinged columns (4m - 15m)

An easy–access range of mid-hinged columns suitable for residential, amenity, rail and industrial areas where conventional access platforms are unsafe or unsuitable. Available root mounted or flange plated. When installing mid-hinged columns, minimum head load is required for the column to hinge.

Mid-hinged



Base-hinged columns

Base-hinged columns are an option for cost effective, safe and easy maintenance. The lowering of the column is done quickly and safely using a raising and lowering tool specific to the column. This lowers the column to ground level for easy access to the luminaire. Base-hinged columns are best suited to sites with tight access and where mobile platforms cannot be used such as sports facilities, car parks and footpaths.



Tubular columns (3-12m)

A range of tubular lighting columns suitable for road, residential and general amenity areas. Available root mounted or flange plated.

Code	A	OD1	OD2	OD3	Door Openings	B	Terrain Category	Max Head Load
Tubular Columns (Root Mounted)								
3CT76	3m	Ø140	Ø76	N/A	500 x 100	800	3	50kg/0.90m²
4CT76	4m	Ø140	Ø76	N/A	500 x 100	800	3	50kg/0.50m²
5CT76	5m	Ø140	Ø76	N/A	500 x 100	800	3	50kg/0.50m²
6CT76	6m	Ø140	Ø76	N/A	500 x 100	1000	3	50kg/0.50m²
6CTH89	6m	Ø168	Ø89	Ø76	600 x 115	1000	3	50kg/0.75m²
8CT89	8m	Ø168	Ø89	Ø76	600 x 115	1200	2	50kg/0.36m²
8CTM114	8m	Ø168	Ø114	Ø101	600 x 115	1200	2	70kg/0.75m²
10CT114	10m	Ø168	Ø114	Ø101	600 x 115	1500	2	45kg/0.36m²
10CTH140	10m	Ø192	Ø140	Ø127	600 x 115	1500	2	90kg/0.82m²
12CTHB140	12m	Ø192	Ø140	Ø127	600 x 115	1700	2	80kg/0.56m²

Code	A	OD1	OD2	OD3	Door Openings	B	Terrain Category	Max Head Load	Hole Centres C	Slot Size H	Bolt Code
Tubular Columns (Flange Plated)											
3CT76FP	3m	Ø140	Ø76	N/A	500 x 100	800	3	50kg/0.90m²	200	20 x 50	FB001
4CT76FP	4m	Ø140	Ø76	N/A	500 x 100	800	3	50kg/0.50m²	200	20 x 50	FB001
5CT76FP	5m	Ø140	Ø76	N/A	500 x 100	800	3	50kg/0.50m²	200	20 x 50	FB001
6CT76FP	6m	Ø140	Ø76	N/A	500 x 100	1000	3	50kg/0.50m²	200	20 x 50	FB001
6CTH89FP	6m	Ø168	Ø89	Ø76	600 x 115	1000	3	50kg/0.75m²	200	24 x 50	FB007
8CT89FP	8m	Ø168	Ø89	Ø76	600 x 115	1200	2	50kg/0.36m²	300	29 x 64	FB004
8CTM114FP	8m	Ø168	Ø114	Ø101	600 x 115	1200	2	70kg/0.75m²	300	29 x 64	FB004
10CT114FP	10m	Ø168	Ø114	Ø101	600 x 115	1500	2	45kg/0.36m²	300	29 x 64	FB004
10CTH140	10m	Ø192	Ø140	Ø127	600 x 115	1500	2	90kg/0.82m²	300	29 x 64	FB004
12CTHB140	12m	Ø192	Ø140	Ø127	600 x 115	1700	2	80kg/0.56m²	300	29 x 64	FB004

Conical lighting columns (4-8m)

An aesthetic range of conical lighting columns suitable for residential and amenity areas. Available root mounted or flange plated.

Code	A	B	OD1	OD2	OD3	Door Size	Terrain Category	Max Head Load	Max Windage
4CCS60L	4m	800mm	133mm	60mm	60 x 85	500 x 100	3	30kg	0.5m²
5CCS60L	5m	800mm	145mm	60mm	60 x 85	500 x 100	3	35kg	0.5m²
6CCS60L	6m	800mm	157mm	60mm	60 x 85	500 x 100	3	40kg	0.5m²
8CCS60L	8m	1200mm	168mm	60mm	76mm	500 x 100	2	40kg	0.45m²

Mid-hinged columns (4-8m)

An easy–access range of mid-hinged columns suitable for residential, amenity, rail and industrial areas where conventional access platforms are unsafe or unsuitable for use. Available root mounted or flange plated.

Code	A	Description - Mid-hinged octagonal	B	Max Head Load*	Max Windage	Hole Size L	Flange Size / Code	Bolt Code	Bolt	Winch
Rope Operated										
4MHRL	4m	Root mounted	800	20kg	0.5m²					Rope
4MHFPL	4m	Flange plated		20kg	0.5m²	200	300mm/18mm	M16 x 500	FB001	Rope
5MHRL	5m	Root mounted	800	20kg	0.5m²					Rope
5MHFPL	5m	Flange plated		20kg	0.5m²	200	300mm/18mm	M16 x 500	FB001	Rope
6MHRL	6m	Root mounted	1000	20kg	0.5m²					Rope
6MHFPL	6m	Flange plated		20kg	0.5m²	200	300mm/18mm	M16 x 500	FB001	Rope
Winch Operated										
4MHRL	4m	Root mounted	800	35kg	0.5m²					KLWINCHL
4MHFPL	4m	Flange plated		35kg	0.5m²	200	300mm/18mm	M16 x 500	FB001	KLWINCHL
5MHRL	5m	Root mounted	800	35kg	0.5m²					KLWINCHL
5MHFPL	5m	Flange plated		35kg	0.5m²	200	300mm/18mm	M16 x 500	FB001	KLWINCHL
6MHRL	6m	Root mounted	1000	35kg	0.5m²					KLWINCHL
6MHFPL	6m	Flange plated		35kg	0.5m²	200	300mm/18mm	M16 x 500	FB001	KLWINCHL
8MHFFH1	8m	Flange plated		70kg	0.98m²	300	420mm/25mm	M24 x 820	FB004	KLWINCHL
8MHRL1	8m	Root mounted	1200	135kg	0.70m²					KLWINCHSHD <100kg KLWINCHSHD2 >100kg

Above weight and windage area figures are based on a medium terrain category. Other sizes & variations available on request.

*Please note maximum carrying weight of a 4m - 6m mid - hinged column is 20kg with a rope or 35kg with a winch.

Kingfisher Lighting

Part of the LUCECO plc group of companies

Datasheet



VIVA-CITY Pro

Specification Text

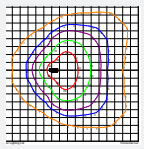
The VIVA-CITY Pro shall be manufactured from die-cast aluminium and powder coated in RAL 7016 Marine Grade finish. It shall have a power output ranging between 10 - 180W, with an efficacy of 66 - 150lm/W. The luminaire shall deliver 662 – 24,840 luminaire lumens. It shall have a fully programmable DALI 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.

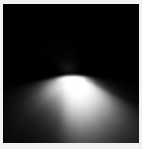
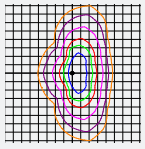
Specification

Weight:	4.5 - 9.1 kg
Windage:	0.06 - 0.09 m^2
Material:	Die-cast Aluminium
Paint Finish:	RAL7016 Anthracite Grey
Embodied Carbon:	89 - 182 kg CO^2e

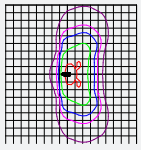
Optics

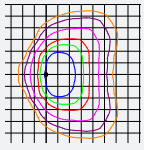
Forward Throw Optic 70°
Open areas perimeter lighting

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

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



DESIGNED & ENGINEERED IN THE UK

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

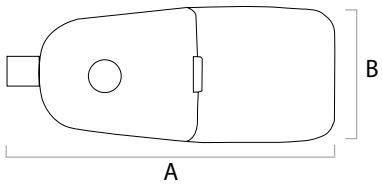
- Colour Temperatures: 2700K, 4000K
- Photocell
- Emergency
- Full Control Capabilities
- Dim to Warm

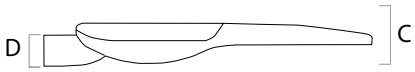
Mounting Options

- 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 3 - 40, 60, 80W	625	288	102	60/76
Body Size 4 - 120, 180W	775	320	102	60/76

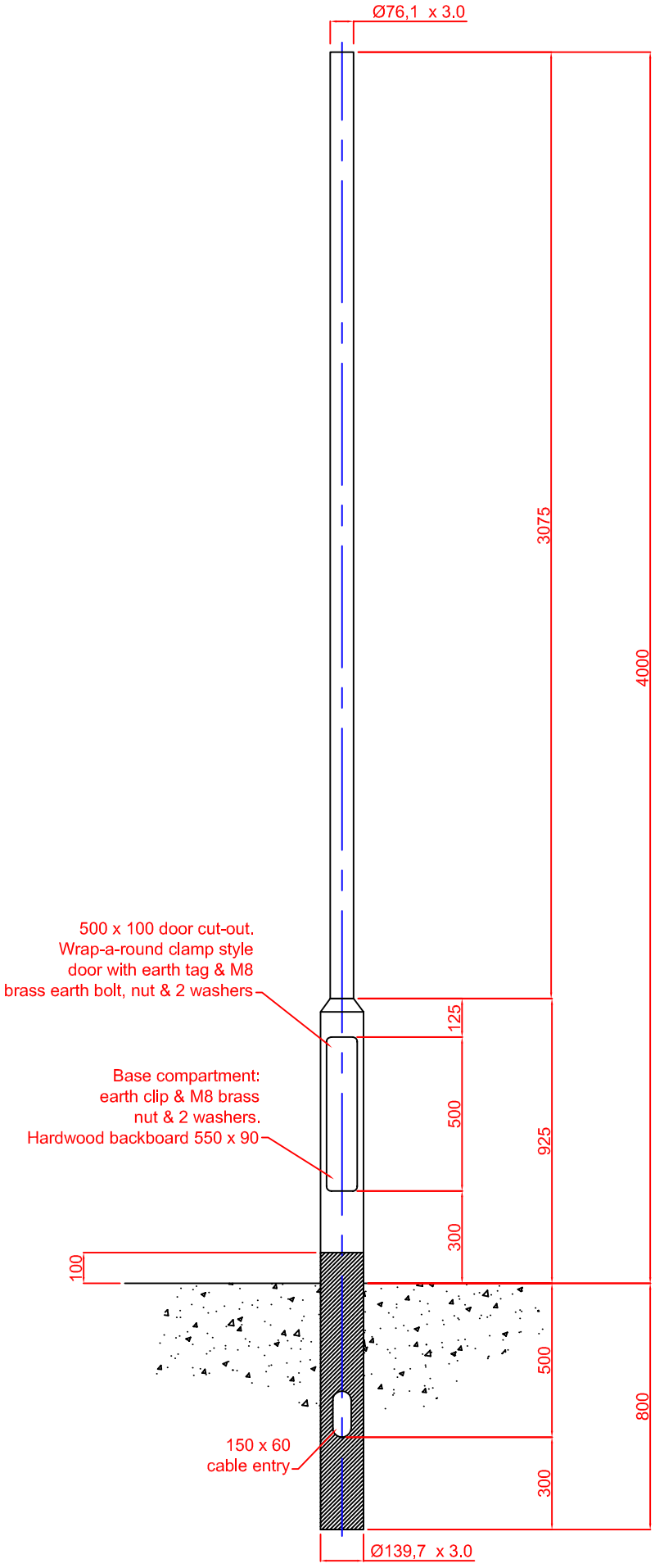
All measurements in mm



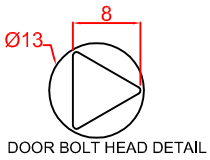


Code	Power	Luminaire Lumens	Drive Current mA	Inrush Current A pk	Optic	CCT(K)	IP	IK	Weight kg	Driver Included	Driver Type
VCYP-AY70-4.4-10D-02	10.0	1,177	400	9.2	Asymmetrical Street Optic 70°	4000	IP66	IK08	4.8	Yes	DALI
VCYP-AY70-27.4-10D-02	10.0	1,117	400	9.2		2700	IP66	IK08	4.8	Yes	DALI
VCYP-AY70-4.8-20D-02	20.0	2,699	840	14.9		4000	IP66	IK08	4.8	Yes	DALI
VCYP-AY70-27.8-20D-02	20.0	2,561	840	14.9		2700	IP66	IK08	4.8	Yes	DALI
VCYP-AY70-4.10-40D-02	40.0	5,880	1,050	24.9		4000	IP66	IK08	6.0	Yes	DALI
VCYP-AY70-27.10-40D-02	40.0	5,579	1,050	24.9		2700	IP66	IK08	6.0	Yes	DALI
VCYP-AY70-4.6-60D-02	60.0	8,844	610	32.0		4000	IP66	IK08	6.0	Yes	DALI
VCYP-AY70-27.6-60D-02	60.0	8,392	610	32.0		2700	IP66	IK08	6.0	Yes	DALI
VCYP-AY70-4.8-80D-02	80.0	11,120	800	41.6		4000	IP66	IK08	6.0	Yes	DALI
VCYP-AY70-27.8-80D-02	80.0	10,551	800	41.6		2700	IP66	IK08	6.0	Yes	DALI
VCYP-AY70-4.6-120D-02	120.0	17,828	620	65.0		4000	IP66	IK08	9.0	Yes	DALI
VCYP-AY70-27.6-120D-02	120.0	16,916	620	65.0		2700	IP66	IK08	9.0	Yes	DALI
VCYP-AY70-4.9-180D-02	180.0	24,840	900	80.0		4000	IP66	IK08	9.0	Yes	DALI
VCYP-AY70-27.9-180D-02	180.0	23,569	900	80.0		2700	IP66	IK08	9.0	Yes	DALI
VCYP-FW70-4.4-10D-02	10.0	1,149	400	9.2	Asymmetrical Forward Throw Optic 70°	4000	IP66	IK08	4.8	Yes	DALI
VCYP-FW70-27.4-10D-02	10.0	1,090	400	9.2		2700	IP66	IK08	4.8	Yes	DALI
VCYP-FW70-4.8-20D-02	20.0	2,655	840	14.9		4000	IP66	IK08	4.8	Yes	DALI
VCYP-FW70-27.8-20D-02	20.0	2,519	840	14.9		2700	IP66	IK08	4.8	Yes	DALI
VCYP-FW70-4.10-40D-02	40.0	5,532	1,050	24.9		4000	IP66	IK08	6.0	Yes	DALI
VCYP-FW70-27.10-40D-02	40.0	5,249	1,050	24.9		2700	IP66	IK08	6.0	Yes	DALI
VCYP-FW70-4.6-60D-02	60.0	8,760	610	32.0		4000	IP66	IK08	6.0	Yes	DALI
VCYP-FW70-27.6-60D-02	60.0	8,312	610	32.0		2700	IP66	IK08	6.0	Yes	DALI
VCYP-FW70-4.8-80D-02	80.0	11,040	800	41.6		4000	IP66	IK08	6.0	Yes	DALI
VCYP-FW70-27.8-80D-02	80.0	10,475	800	41.6		2700	IP66	IK08	6.0	Yes	DALI
VCYP-FW70-4.6-120D-02	120.0	17,760	620	65.0		4000	IP66	IK08	9.0	Yes	DALI
VCYP-FW70-27.6-120D-02	120.0	16,851	620	65.0		2700	IP66	IK08	9.0	Yes	DALI
VCYP-FW70-4.9-180D-02	180.0	24,660	900	80.0		4000	IP66	IK08	9.0	Yes	DALI
VCYP-FW70-27.9-180D-02	180.0	23,398	900	80.0		2700	IP66	IK08	9.0	Yes	DALI
VCYP-AYB70-4.4-10DSHIELD-02	10.0	698	400	9.2	Asymmetrical Spill Shield Street Optic 70°	4000	IP66	IK08	4.8	Yes	DALI
VCYP-AYB70-27.4-10DSHIELD-02	10.0	662	400	9.2		2700	IP66	IK08	4.8	Yes	DALI
VCYP-AYB70-4.8-20DSHIELD-02	20.0	1,601	840	14.9		4000	IP66	IK08	4.8	Yes	DALI
VCYP-AYB70-27.8-20DSHIELD-02	20.0	1,519	840	14.9		2700	IP66	IK08	4.8	Yes	DALI
VCYP-AYB70-4.10-40DSHIELD-02	40.0	3,487	1,050	24.9		4000	IP66	IK08	6.0	Yes	DALI
VCYP-AYB70-27.10-40DSHIELD-02	40.0	3,308	1,050	24.9		2700	IP66	IK08	6.0	Yes	DALI

Code	Power	Luminaire Lumens	Drive Current mA	Inrush Current A pk	Optic	CCT(K)	IP	IK	Weight kg	Driver Included	Driver Type
VCYP-AYB70-27.8-80DSHIELD-02	80.0	6,257	800	41.6	Asymmetrical Spill Shield Street Optic 70°	2700	IP66	IK08	6.0	Yes	DALI
VCYP-AYB70-4.6-120DSHIELD-02	120.0	10,572	620	65.0		4000	IP66	IK08	9.0	Yes	DALI
VCYP-AYB70-27.6-120DSHIELD-02	120.0	10,031	620	65.0		2700	IP66	IK08	9.0	Yes	DALI
VCYP-AYB70-4.9-180DSHIELD-02	180.0	14,730	900	80.0		4000	IP66	IK08	9.0	Yes	DALI
VCYP-AYB70-27.9-180DSHIELD-02	180.0	13,977	900	80.0		2700	IP66	IK08	9.0	Yes	DALI
VCYP-FWB70-4.4-10DSHIELD-02	10.0	892	400	9.2	Asymmetrical Spill Shield Forward Throw Optic 70°	4000	IP66	IK08	4.8	Yes	DALI
VCYP-FWB70-27.4-10DSHIELD-02	10.0	846	400	9.2		2700	IP66	IK08	4.8	Yes	DALI
VCYP-FWB70-4.8-20DSHIELD-02	20.0	2,060	840	14.9		4000	IP66	IK08	4.8	Yes	DALI
VCYP-FWB70-27.8-20DSHIELD-02	20.0	1,955	840	14.9		2700	IP66	IK08	4.8	Yes	DALI
VCYP-FWB70-4.10-40DSHIELD-02	40.0	4,293	1,050	24.9		4000	IP66	IK08	6.0	Yes	DALI
VCYP-FWB70-27.10-40DSHIELD-02	40.0	4,073	1,050	24.9		2700	IP66	IK08	6.0	Yes	DALI
VCYP-FWB70-4.6-60DSHIELD-02	60.0	6,798	610	32.0		4000	IP66	IK08	6.0	Yes	DALI
VCYP-FWB70-27.6-60DSHIELD-02	60.0	6,450	610	32.0		2700	IP66	IK08	6.0	Yes	DALI
VCYP-FWB70-4.8-80DSHIELD-02	80.0	8,567	800	41.6		4000	IP66	IK08	6.0	Yes	DALI
VCYP-FWB70-27.8-80DSHIELD-02	80.0	8,129	800	41.6		2700	IP66	IK08	6.0	Yes	DALI
VCYP-FWB70-4.6-120DSHIELD-02	120.0	13,782	620	65.0		4000	IP66	IK08	9.0	Yes	DALI
VCYP-FWB70-27.6-120DSHIELD-02	120.0	13,077	620	65.0		2700	IP66	IK08	9.0	Yes	DALI
VCYP-FWB70-4.9-180DSHIELD-02	180.0	19,136	900	80.0		4000	IP66	IK08	9.0	Yes	DALI
VCYP-FWB70-27.9-180DSHIELD-02	180.0	18,157	900	80.0		2700	IP66	IK08	9.0	Yes	DALI



Material: BS EN 10219 or equivalent
Design: BS EN 40
Finish: Galvanise to BS EN 1461:1999
+ external bitumen root
Welding: In accordance with BS 5135
Procedures to BS EN 288
Welders qualified to BS EN 287



DOOR BOLT HEAD DETAIL

Detail of change:		Title: 4CT76 Lighting Column
Detail of change:		Drawn: RJH / Drawing No: KL 3171
Detail of change: Updated template RH 30/01/07		Date: 30/01/2007 / Issue: B
		Material: BS EN 10219 or equivalent
© ALL RIGHTS RESERVED KINGFISHER LIGHTING LTD 2007	Kingfisher Lighting Ltd KINGFISHER LIGHTING LTD RATCHER WAY CROWN FARM INDUSTRIAL PARK MANSFIELD NOTTINGHAMSHIRE NG19 0FS	All dimensions in mm(unless otherwise stated)

© 2023 COUCH PERRY WILKES
All scaled dimensions taken from this drawing are to be verified on site

HEALTH AND SAFETY INFORMATION

Standards hazards and risks may not necessarily be identified on this drawing. The caution symbols that are identified, but not limited to, related to specific hazards and risks associated with this type of project.

Reference should be made to the DRA for further details.

DRA Ref No.	Description
<>	<Insert Description>

It is assummed that all works shall be undertaken by a competent contractor working, where appropriate, to an approved method statement.

LEGEND

A — SURFACE MOUNTED LED INDUSTRIAL LINEAR LUMINAIRE:
WHITECROFT LIGHTING
ACL EXTREME - 1240MM, 3325 LUMENS, 28.3W

B — 4M COLUMN MOUNTED LED STREET LUMINAIRE:
PERFORMANCE IN LIGHTING
KREOS SR/100 - 1575 LUMENS, 12W

LIGHTING CALCULATION ISOLINES

ONE LEISURE BUILDING

REV	DATE	DESCRIPTION	BY	VE
REV	DATE	DESCRIPTION	BY	VE

www.cpwp.com
Unit 6B, Vantage Park
Washingley Road, Huntingdon
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RIBA Stage
STAGE 2

Status
PRELIMINARY

Client
VARSITY HQ

Project
ONE LEISURE CENTRE

Drawing Title
EXTERNAL LIGHTING LAYOUT

Scale (A1)	Date	By	Ve
1:250	JULY '24	TA	MB

Proj ID	Originator	Functional	Spatial	Form	Discipline	Number	Suitability	Revision
240544	CPW	ZZ	ZZ	DR	E	221001	S2	P01.01

240544-CPW-ZZ-ZZ-DR-E-221001 S2 P01.01

CPW Project No. 240544

Linked Files