



CWL12 Vantage Data Centres, Newport

Technical Submission

CWL12-BYES-XX-XX-TS-E-900012

Rev:	Status:	Amendments:	Author:	Issue Date:	Checked By:
C01	First Issue	Construction Record	DP	17/02/2026	RM

Document:	CWL12 Street Lighting Columns– Technical Submittal
Reference:	CWL12-BYES-XX-XX-TS-E-900012
Document Author:	DP
Date:	17/02/2026
Document Check and Approved	
Name:	Ross MACLURE
Position:	Principal Electrical Design Engineer
Signed	

1) Street Lighting Columns

This technical submission details the street lighting columns.

Column sizes:

- 4m
- 6m
- 10m



Kingfisher Lighting

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 £300 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):

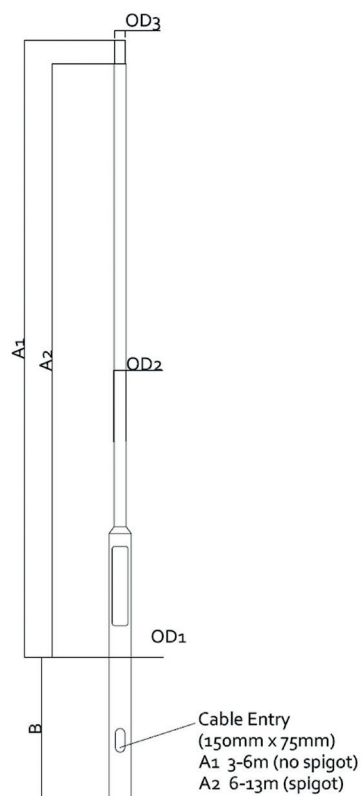
- Weight and windage of the luminaire and bracket
- Wind speed
- Site altitude
- Site terrain and topography

When this information is not readily available, PD 5647:2004 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.

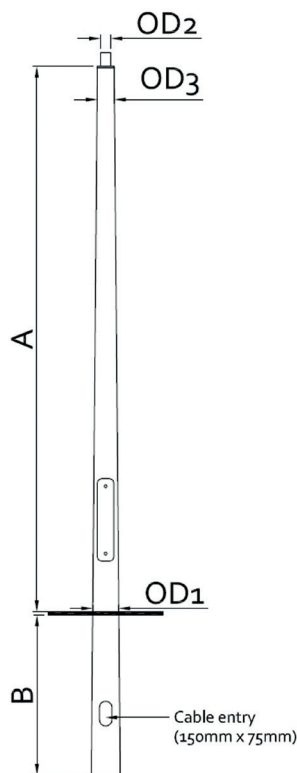
Tubular



Conical lighting columns (4m - 8m)

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

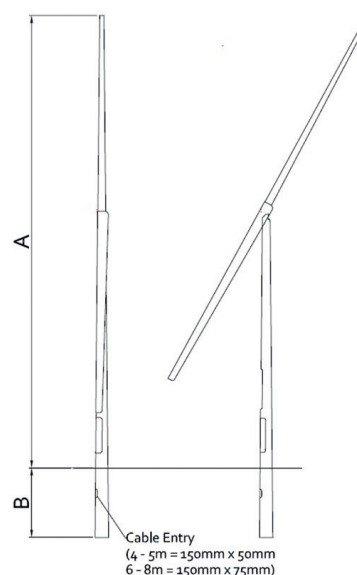
Conical



Mid-hinged columns (4m - 15m)

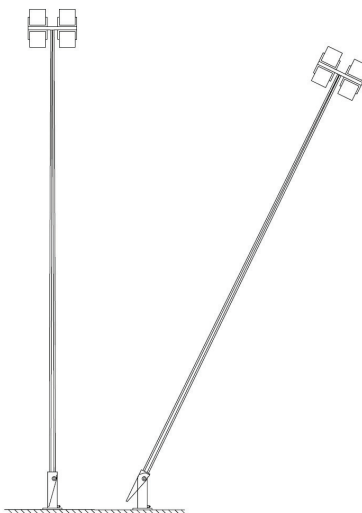
An easy-access range of mid-hinged columns suitable for residential, amenity, rail and industrial areas where conventional access platforms are unsafe or unsuitable. Available root mounted or flange plated. When installing mid-hinged columns, minimum head load is required for the column to hinge.

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/0.90m ²
4CT76	4m	Ø140	Ø76	N/A	500 x 100	800	3	50kg/0.50m ²
5CT76	5m	Ø140	Ø76	N/A	500 x 100	800	3	50kg/0.50m ²
6CT76	6m	Ø140	Ø76	N/A	500 x 100	1000	3	50kg/0.50m ²
6CTH89	6m	Ø168	Ø89	Ø76	600 x 115	1000	3	50kg/0.75m ²
8CT89	8m	Ø168	Ø89	Ø76	600 x 115	1200	2	50kg/0.36m ²
8CTM114	8m	Ø168	Ø114	Ø101	600 x 115	1200	2	60kg/0.55m ²
10CT114	10m	Ø168	Ø114	Ø101	600 x 115	1500	2	50kg/0.50m ²
10CTH140	10m	Ø192	Ø140	Ø127	600 x 115	1500	2	80kg/1.00m ²
12CTHB140	12m	Ø192	Ø140	Ø127	600 x 115	1700	2	70kg/0.85m ²

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	60kg/0.55m²	300	29 x 64	FB004
10CT114FP	10m	Ø168	Ø114	Ø101	600 x 115	1500	2	50kg/0.50m²	300	29 x 64	FB004
10CTH140	10m	Ø192	Ø140	Ø127	600 x 115	1500	2	80kg/1.00m²	300	29 x 64	FB004
12CTHB140	12m	Ø192	Ø140	Ø127	600 x 115	1700	2	70kg/0.85m²	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
8MHF1	8m	Flange plated		70kg	0.98m²	300	420mm/25mm	M24 x 820	FB001	KLWINCHL
8MHRL1	8m	Root mounted	1200	135kg	0.70m²				FB004	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.

Column and Bracket Data Sheet

Kingfisher Lighting LTD
Ratcher Way
Crown Farm Industrial Park
Mansfield
NG19 0FS

Kingfisher
Exterior Lighting



COLUMN REFERENCE NO: 4CT76

COLUMN DRAWING NO: KL 3171

REVISION NO: B

DATE: 11-3-13

PART A GENERAL

Column Nominal Height (m) – 4.0

Column Material – STEEL

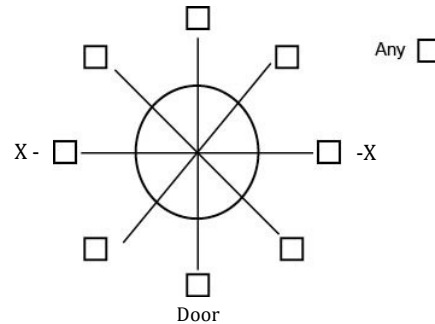
Material Design Strength (N/mm²) – 235

NO. of Door Openings – 1

Door Opening Size – Height (mm) – 500

Door Opening Size – Width (mm) - 100

Acceptable positions of bracket arms relative to door opening:



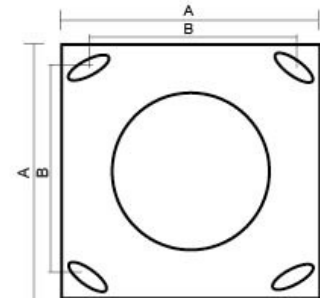
Corrosion Protection (steel columns only) Basic system type galvanised only BS EN 1461 and finished in accordance with the specification

PART B Foundation Data (BS EN 40-PD6547)

Planting Depth – 800mm

Standard soil type Factor G (KN/m ² /m)	630	390	230
Diameter of concrete surround	169	273	463

Flange Plate Detail



Maximum Moment is about – X - X

Design Moment at Ground Level – 3.71kNm

Ultimate Moment at Ground Level -

Sq. Size A (mm)	Thickness (mm)	Hole Ctrs B (mm)	Slot Size (mm)

Bracket Projection (m)	Terrain Cat.	RWF E.Light	RWF Light	RWF Med	RWF Heavy	RWF Ex. Heavy
Post Top	III	70 0.51	70 0.76	70 0.69	70 0.62	70 0.49
Single arm – up to 0.6m	III	60 0.5	60 0.425	60 0.38	60 0.34	60 0.26
Double arm (each side) – up to 0.6m	III	60 0.44	60 0.38	60 0.34	60 0.3	60 0.225

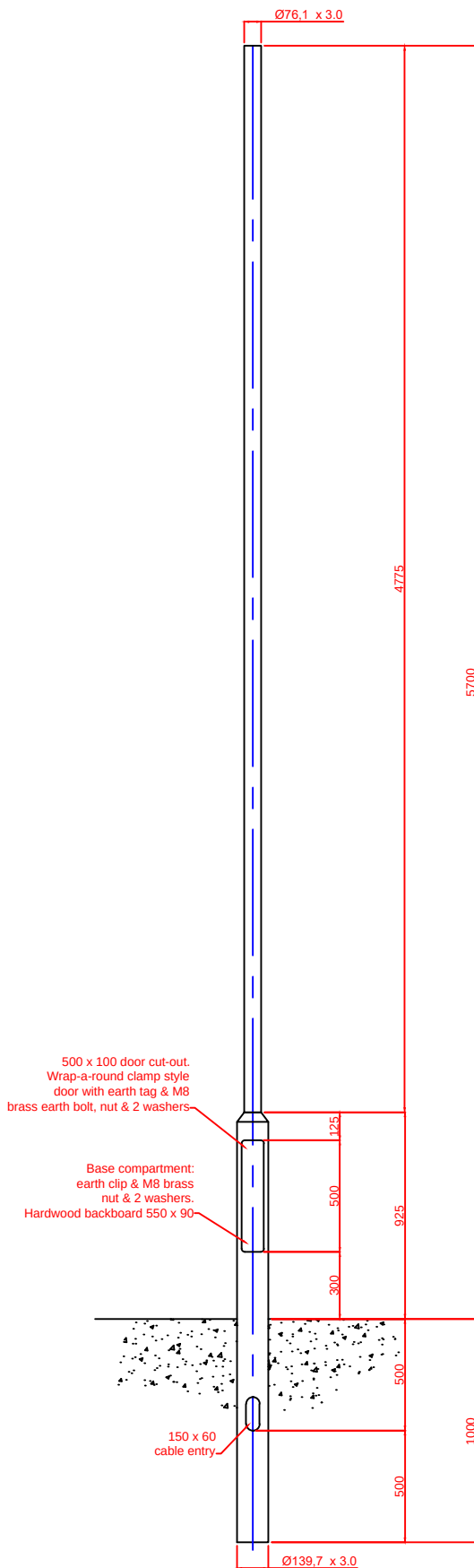
PART D Certification

It is certified that the information given in this data sheet has been obtained in accordance with the requirements of EN40

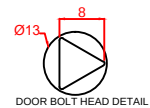
Signed on behalf of the contractor: Richard Holmes Date: 11-3-2013

Kingfisher Lighting are independently assessed and approved by B.S.I to BS EN ISO 9001 Certificate number FS 575858

All dimensions in mm (unless otherwise stated)



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



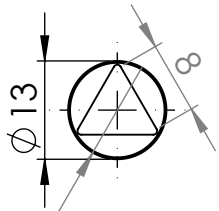
Detail of change:	C 4775 was 5075, 5700 was 6000 RH 10-6-15
Detail of change:	B 6000 was 5700, 5075 was 4775 30-03-2010 RH
Detail of change:	Updated template RH 30/01/07
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 **Kingfisher**
Lighting Ltd

KINGFISHER LIGHTING LTD
 RATCHER WAY
 CROWN FARM INDUSTRIAL PARK
 MANSFIELD
 NOTTINGHAMSHIRE
 NG19 0FS

Title:	6CT76 Lighting Column		
Drawn:	RJH	Drawing No:	KL 3173
Date:	30/01/2007	Issue:	D
Material:	BS EN 10219 or equivalent		
All dimensions in mm(unless otherwise stated)			

Material: BS EN 10219 or equivalent
 Design: BS EN 40
 Finish: Galvanised 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



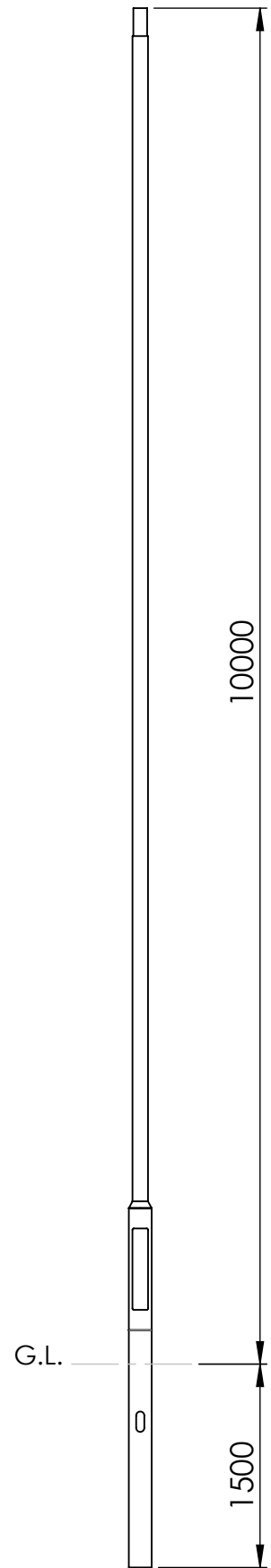
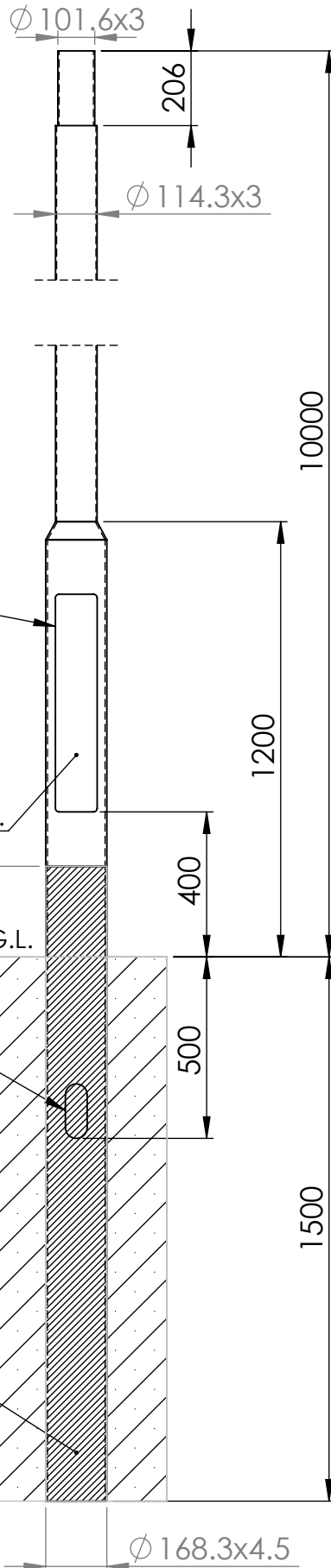
DOOR BOLT HEAD DETAIL

600x115 door cut-out,
 Wrap-a-round clamp style
 door with earth tag and M8
 brass earth bolt, nut and 2
 washers.

Base compartment:
 earth clip and M8 brass
 nut and 2 washers
 hardwood backboard 686x108.

150x75 cable entry hole.

T-wash and bitumen root.



Scale 1:50

Detail of change: Updated bitumen coating length

Detail of change:

Detail of change:

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**Kingfisher
Lighting**

KINGFISHER LIGHTING LTD
 RATCHER WAY
 CROWN FARM INDUSTRIAL PARK
 MANSFIELD
 NOTTINGHAMSHIRE
 NG19 0FS

Title: 10CT114 Lighting Column

Drawn: JKA Checked: RW Drawing No: KL3179

Date: 24/09/2024 Issue: D

Material: BS EN 10219 or equivalent

All dimensions in mm (unless otherwise stated)