



Technical Submittal

External Lighting

Project: Manchester City College Phase 2
Project No: MC1185
TSM No: CCPH2-AME-XX-XX-TS-E-00008
Revision: C01

Revision Notes:

- 1) Issued for approval
- 2) Construction Issue

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Technical Submittal – External Lighting

Project: Manchester City College Phase 2

Project No: MC1185

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Viewpoint Reference: CCPH2-AME-XX-XX-TS-E-00008

Revision: C01

Date: 08-03-24

Schedule

Manufacture: Whitecroft

Description of System / Operation

Controlled via timeclock and photocell and is linked to hours of darkness and time of day. All external luminaires are off during hours of daylight and switch on at dusk and switch off outside of opening hours. Times to be advised by the client.

External Lighting - Technical Submittal



Project	Manchester College Phase 2
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Revision	
Date	

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Notes:

- 1)
- 2)
- 3)
- 4)

Sirocco Midi



High performance LED post top luminaire for road, pathway and area lighting

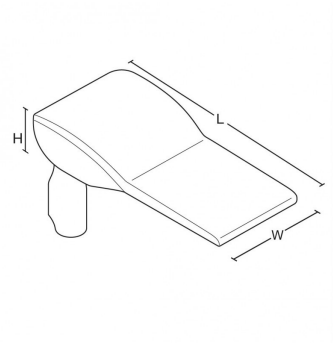
PART NUMBER: SIMDH14KGA



PRODUCT DESCRIPTION

SIROCCO MIDI Post Top LED luminaire for column or wall mounting. Column or bracket to be supplied separately. Slimline die cast aluminium body, primed and polyester powder coated with clear 4mm thick tempered glass cover resistant to thermal shock and impacts. Suitable for post top or side entry diameter between 46 to 76mm. Adjustable tilt angle in 5 degree steps from 0 to 20 degrees (Post Top mounting) or -20 to 10 degrees (Side Entry mounting). AREA lighting distribution.

DIMENSIONS & WEIGHT



PRODUCT DESIGN

Product Colour Grey
Weight (KG) 6
Height (mm) 29

Length/Diameter (mm) 558
Cut Out (mm)
Optical Material Glass

LIGHTING DATA

Output (lumens) 4571
Emergency Lumens N/A
Wattage 33
LL/CW 139
Optic (Light Distribution) See Description
LOR % 100
Colour Rendering (CRI) Ra70

Light Source Colour 4000K
Colour Consistency Macadam (SDCM) 3
ULR % 0
Life (hrs) to L90B50
Life (hrs) to L80B50
Life (hrs) to L70B50
SHR Max N/A

TECHNICAL DATA

Lamp Type LED
Control Gear Fixed Output
Emergency Type N/A
Integral Controls N/A

Mounting Method Column
IP Rating IP66
Min. ambient temperature -30
Max. ambient temperature 40

ELECTRICAL DATA

Power Factor Full Load 0.9
Voltage 240V
Hertz 50/60Hz
Driver Qty 1

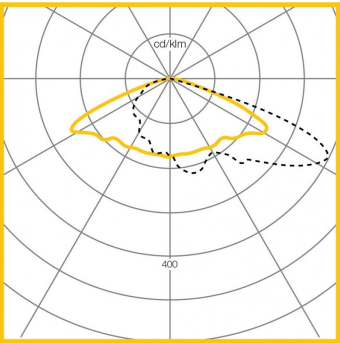
Electrical class 2
Min Dim %
Output Current Tolerance %
Output Current Ripple %

MAX NUMBER PER CIRCUIT BREAKER

MCB B10A
MCB B16A

MCB C10A
MCB C16A

POLAR CURVE



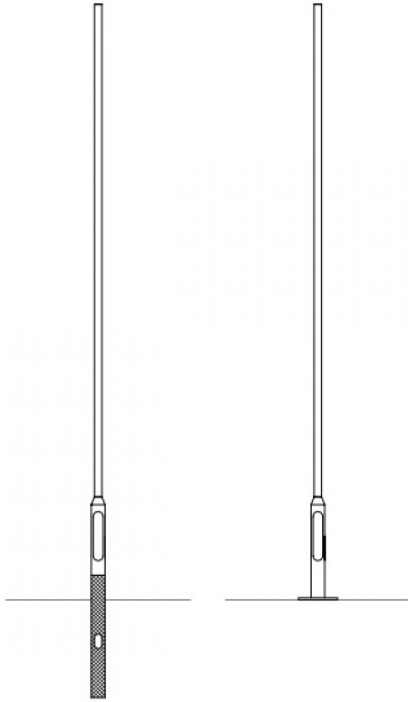
VERSION	MODULE DIMS	L	W	Ø	H ₁	H ₂	KG	CAØ	FIXING CENTRE
SIMDH14KGA	N/A	558	293		29	115	6		

TO SPECIFY

LED Post Top luminaire for column or wall mounting. Column or bracket to be supplied separately. Slimline die cast aluminium body, primed and polyester powder coated with clear 4mm thick tempered glass cover resistant to thermal shock and impacts. Suitable for post top or side entry diameter between 46 to 76mm. Adjustable tilt angle in 5 degree steps from 0 to 20 degrees (Post Top mounting) or -20 to 10 degrees (Side Entry mounting). AREA lighting distribution - as WHITECROFT SIROCCO MIDI

Tubular Columns

Cost effective stepped tubular steel lighting column



Tubular column with black finish and twin heads

Overview

- 4 – 12m high stepped tubular steel columns
- 12 & 15m octagonal tapered steel floodlight columns
- Planted root or flange plate mounting
- Hot dipped galvanised finish to BS EN ISO 1461 for maximum protection
- Bitumen treated base as standard (columns up to 12m)
- Optional black or silver paint finish for extended life and enhanced aesthetics
- Supplied with blank base board and locking door
- Mid hinged and decorative conical columns also available
- See 'column attachments' webpage for details of adapters and brackets
- See 'technical information pack' download for column, bracket and luminaire combinations
- Compliant with BSEN 40

Order codes

Planted Root Columns

Planted Root Columns	
4m Light Duty	CT4PRXXL
5m Medium Duty	CT5PRXXM
5m Heavy Duty	CT5PRXXH
6m Medium Duty	CT6PRXXMD
6m Heavy Duty	CT6PRXXH
8m Medium Duty	CT8PRXXMD
8m Heavy Duty	CT8PRXXH
8m Extra Heavy Duty	CT8PRXXEH
10m Medium Duty	CT10PRXXMD
10m Heavy Duty	CT10PRXXH
10m Extra Heavy Duty	CT10PRXXEH
12m Heavy Duty	CT12PRXXH
12m Extra Heavy Duty	CT12PRXXEH
15m Heavy Duty	CT15PRXXH
For column, bracket and luminaire compatibility see download - Technical Information Pack	

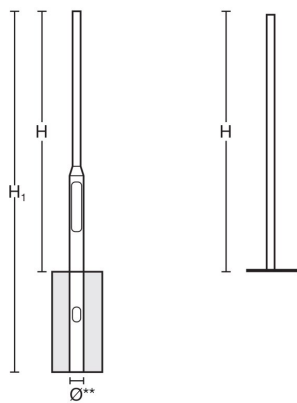
Options

FLANGE PLATE MOUNTED	Replace 'PR' with 'FM'	ie. CT4FMXXL
BLACK FINISH	Add suffix /BLK	ie. CT4PRXXL/BLK
SILVER FINISH	Add suffix /SLVR	ie. CT4PRXXL/SLVR

Accessories

M16 flange mounting kit to suit 4 to 6m (medium duty) flange mounted columns	CFMKIT1
M24 flange mounting kit to suit 6 to 12m (heavy duty) flange mounted columns	CFMKIT2
Flange kit M16 template	CFMTEMP1
Flange kit M24 template	CFMTEMP2
For mounting brackets see - Column Attachments	

Dimensions



VERSION	H	H1	KG	Base Ø	Spigot Ø	Shaft Ø
4m Light	4000	4800	36.6	140	76	76
5m Medium & Heavy	5000	5800	48.0	140	76	76
6m Medium	6000	7000	49.2	140	76	76
6m Heavy	6000	7000	85.0	168	76	89
8m Medium	7750	8950	94.0	168	76	89
8m Heavy	7750	8950	110.8	168	101	114
8m Extra Heavy	7750	8950	139.7	194	127	140
10m Medium	9750	11250	134.0	168	101	114
10m Heavy	9750	11250	165.6	194	127	140
10m Extra Heavy	9750	11250	205.6	194	127	140
12m Heavy	11750	13450	184.0	194	127	140
12m Extra Heavy	12000	13700	230.0	300	N/A	N/A
15m Heavy	15000	17000	250.0	342	N/A	N/A

To Specify

Stepped tubular or octagonal tapered steel lighting column with planted root or flange plate mounted base. With highly protective galvanised finish as standard and colour overpaint options – as Whitecroft Lighting TUBULAR COLUMN

Lighting Columns & Attachments

Tubular Steel Planted Columns

Loadings & Foundation Details



Column Height above ground & Type	Code	Maximum headload (kg)	Over Turning Moment kNm	Maximum windage (m ²) Rationalised Wind Location Factors PD6547: 2004				Column Base Dia	Minimum concrete surround thickness (mm) for Ground factor type G		
				Light	Medium	Heavy	Extra Heavy		G=230 Poor	G=390 Average	G=630 Good
4m Light	CT4PRXXL	50	4	0.76	0.70	0.62	0.49	140	150	100	50
5m Medium	CT5PRXXM	50	4	0.50	0.45	0.40	0.29	140	150	50	50
5m Heavy	CT5PRXXH	50	5	0.90	0.82	0.72	0.56	140	150	50	50
6m Medium	CT6PRXXMD	50	5	0.60	0.53	0.47	0.33	140	100	50	0
6m Heavy	CT6PRXXH	75	9	1.24	1.13	1.03	0.81	168	200	100	50
8m Medium	CT8PRXXMD	50	9	0.40	0.34	0.30	0.20	168	100	50	0
8m Heavy	CT8PRXXH	75	11	0.74	0.64	0.55	0.32	168	150	50	0
8m Extra heavy	CT8PRXXEH	100	20	1.71	1.61	1.35	0.92	194	250	150	50
10m Medium	CT10PRXXMD	50	13	0.48	0.44	0.39	0.30	168	50	0	0
10m Heavy	CT10PRXXH	100	19	0.97	0.88	0.80	0.60	194	100	50	0
10m Extra Heavy	CT10PRXXEH	100	24	1.42	1.30	1.20	0.93	194	150	50	0
12m Heavy	CT12PRXXH	75	19	0.58	0.53	0.49	0.35	194	50	0	0
12m Extra Heavy	CT12PRXXEH	120	40	1.85	1.65	1.45	1.05	300	50	0	0
15m Heavy	CT15PRXXH	120	53	1.65	1.45	1.25	0.90	342	50	0	0

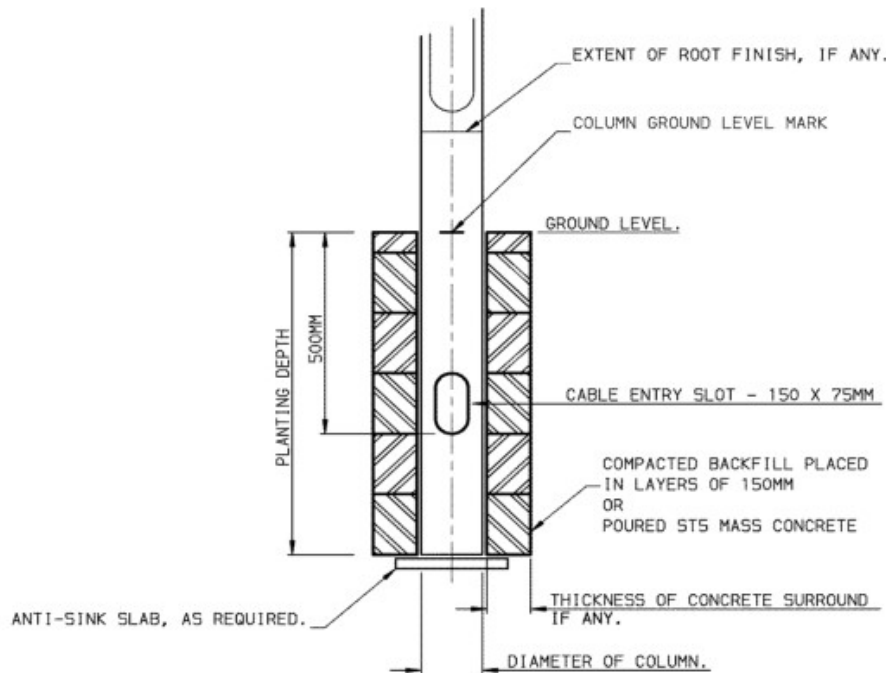
Lighting Columns & Attachments

Tubular Steel Planted Columns

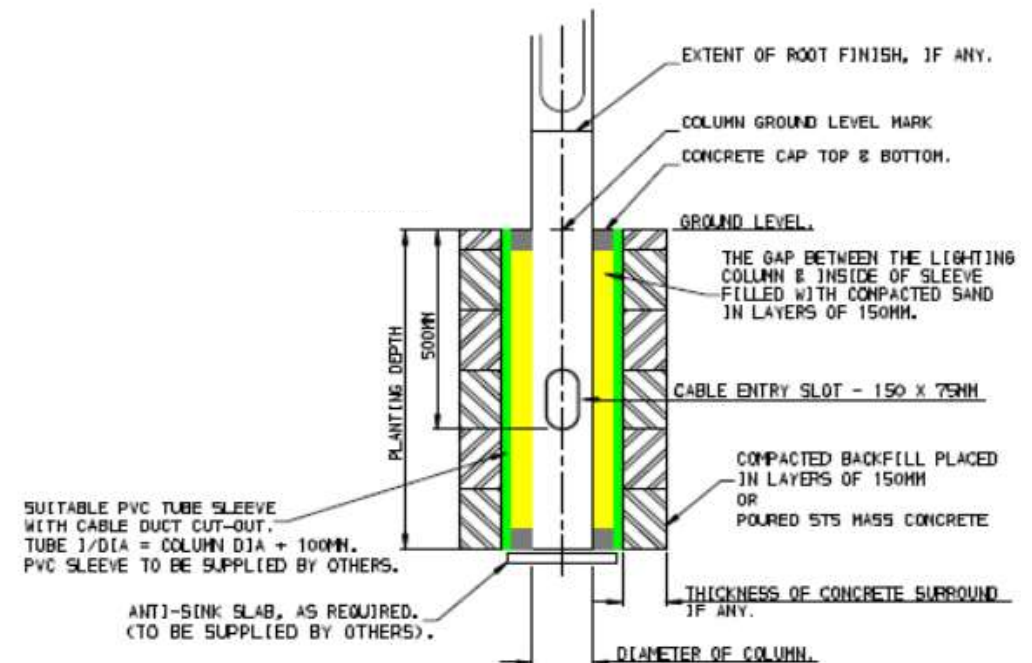
Foundation Details

Table of ground factor 'G'

G	Soil Quality	
630	Good	Compact, well graded sand & gravel, hard clay, well graded fine and coarse sand, decomposed granite rock & soil, well drained
390	Average	Compact fine sand, medium clay, compact well drained sandy loam, loose coarse sand & gravel, sufficiently drained
230	Poor	Soft clay, clay loam, poorly compacted sand, clays containing high amounts of silt & vegetable matter, made ground, poorly drained



Un-prepared arrangement



Prepared arrangement with sleeve