



Prestwich Travel Hub

Technical Submission

General & Emergency Lighting

Document Ref: 17300-247-P1-XX-T-E-600506

Revision: P02

Document Amendment Record Sheet

This sheet has been included to record the status of the document and should always be up-to-date in content.

Revision	Description	Date	By	Approved
P01	First Issue for Approval	11/07/2025	JM	DR
P02	Removed Downlights from Staff Room. Amended Roof to Remove 'X3' and Add 'X4'	14/10/2025	JM	DR

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Technical Submission

Project:	Prestwich Travel Hub
Document Title:	General & Emergency Lighting
Document Ref:	17300-247-P1-XX-T-E-600506

To:	Vinci			From:	24-7 Group		
Issue Date:	14/10/2025			Required Response Date:	28/10/2025		
Issue Format:	Online Portal	✓	Download Link		-	Email	✓

Approval of the Following Equipment is Requested:

Equipment:	General & Emergency Luminaires	Product Ref(s):	See attached schedule
Manufacturer:	Whitecroft Lighting	Area(s) Used:	Car Park – All Areas
Model:	See attached schedule	Drawing / Schedule Ref(s):	17300-247-P1-00-D-E-630000 & 630001 17300-247-P1-01-D-E-630002 & 630003 17300-247-P1-02-D-E-630004 & 630005
Comments:	Details of all general & emergency lighting. Refer to design drawings for locations.		

Attached Detail Documents (tick and reference as appropriate)	Equipment Schedule	✓	Installation Details	-	Physical Details	✓
	Catalogue	-	Performance	-	O&M Details	-
	Drawing	-	Description of Op's	-	Datasheet	✓

Technical Submission response:

By:				Date:			
Status:	A	No comment, proceed as document	B	Incorporate comments and proceed	C	Rejected, re-submit	
Signed:							

Purpose of this Document

The purpose of this technical submission is to demonstrate the suitability of the general & emergency lighting to be used for the new car park at the Prestwich Travel Hub.

Timing

The timing of this technical submission is to obtain approval for the general & emergency lighting, to allow an order to be placed with the chosen manufacturer.

This is to allow delivery to arrive in line with the programme to facilitate the installation.

Specification References

Hannon Associates – Stage 3 MEP Services Performance Specification - Rev P03 –22nd January 2025
17300-HAN-P1-XX-T-X-000002 – Section 6.6 – Lighting Installation

Description

The following general & emergency lighting is proposed:

All lighting and controls to be supplied by Whitecroft Lighting.

The main car park, cycle hub, stairs, lobbies, plant room, substation, store room, [staff room & WC](#) contain LED surface linear battens. The roof level main car park and ground level external car park contains a mixture of surface mount circular IP65 LED bulkheads and building/column mount post top LED luminaires. The building perimeter at ground level contains surface mount circular IP65 LED bulkheads. All locations of luminaires are shown on the layout drawings.

All emergency luminaires contain integral lithium iron phosphate (LiFePO4) battery technology. All emergency lighting to be tested via emergency lighting test key switches located as shown on the layout drawings.

Control Philosophy

Main Car Parking Area (Excluding Roof Level)

Luminaires will activate on presence detection.

Each luminaire to contain integral presence detection and be connected to a Bluetooth mesh.

All luminaires to communicate with luminaires in the same Bluetooth mesh zone (client/end user to confirm whether the whole floor plate to be switched on or 'banks' of luminaires).

Roadway luminaires to have dimming capability.

After a period of no movement for 20 minutes, the roadway lighting will go into set-back mode (10% output).

After a period of no movement for 20 minutes, non-roadway lighting will turn off.

The timer shall be initially set for 20 mins but will be user adjustable for 1min to 99min.

A kinetic override switch will be located in the ground floor plant room and first floor riser.

Position 1 – Automatic Mode (Standard). Presence detection from the individual luminaires.

Position 2 – Override. All luminaires within floorplate (Ground or First Floor) to switch on. After 20 minutes, the lighting will revert back to automatic mode to prevent lighting being left on for prolonged periods unnecessarily.

Roof Level Car Park

Luminaires will be controlled by photocell, timeclock and manual switched override (located in the roof level riser). The photocell and timeclock will only allow lighting to be operated during the hours of darkness.

Substation / Plant Room / Riser

Luminaires to be manually switched.

Storage / Cycle Store

Luminaires will activate on presence detection.

Each luminaire to contain integral PIR detectors.

After a period of no movement for 20 minutes, the lighting will turn off.

Staff Room / Staff WC

Luminaires will activate on presence detection.

After a period of no movement for 20 minutes, the lighting will turn off.

Stair Cores / Lobbies

Luminaires will activate on presence detection.

Each luminaire to contain integral PIR detectors and be connected to a Bluetooth mesh.

Lighting to switch on for the lobby/stairs both above and below the current floor.

After a period of no movement for 20 minutes, the lighting will turn off.

Ground Level External Perimeter Lighting

Luminaires will be controlled by photocell, timeclock and manual switched override (located in the ground level plant room).

The photocell and timeclock will only allow lighting to be operated during the hours of darkness.

Luminaire Specification – B1

Luminaire Specification					B1
Manufacturer:	Whitecroft Lighting				
Product Name:	Kolo IP65 Hood				
Product Code:	K6H44KHB				
Description:	Surface IP65 LED Bulkhead c/w Trim Ring & Hood (Black)				
Circuit Wattage:	14 W	Lumen Output:	1008 lm	Efficacy:	72 LL/CW
Lamp Type:	LED	Colour:	4000K	Ra:	>80
IP Rating:	IP65				
Control Gear:	Fixed Output				
Areas Used:	External Perimeter & Roof Level				
Notes:	n/a				

Kolo IP65 Hood



Part number:
K6H44KHB

Project reference:
B1-EXT

Product description:
Surface mounted circular IP65 LED bulkhead luminaire in 400mm diameter. Polycarbonate opal diffuser. Supplied with trim ring – as Whitecroft Lighting KOLO IP65 HOOD



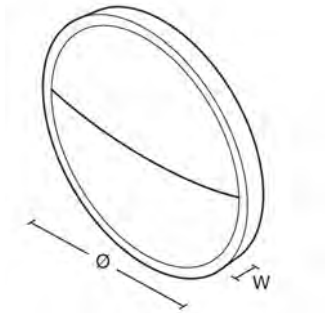
Light source

Light source:	Colour temperature:
LED	4000K, Ra80
Colour render index:	Colour consistency:
>80	MacAdam 3 SDCM
Control gear:	Integral control:
Fixed Output	N/A
Luminaire finish:	
Black	

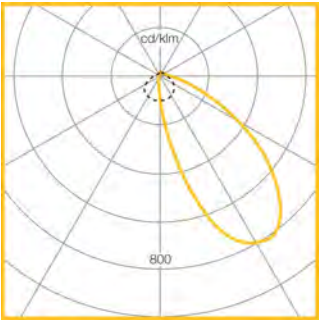
Luminaire performance

Lumens:	Light output ratio:
1008	100.00%
Circuit watts:	LL/CW:
14.00	72
Power factor:	LED life performance:
>0.9	L90B50 @ 50K hours
Emergency:	Emergency output:
N/A	N/A

Dimensions & Weight



Polar Curve (Indicative Only)



VERSION	W	KG	KG(EM)	Ø
400mm Ø	95	4	4.5	400

Luminaire Specification – L1-QH & L1E-QH

Luminaire Specification					L1-QH & L1E-QH	
Manufacturer:	Whitecroft Lighting					
Product Name:	ACL Industry					
Product Code:	ACQ5WH24K/ZP098					
Description:	LED Surface Linear Batten					
Circuit Wattage:	17.7 W	Lumen Output:	2794 lm	Efficacy:	158 LL/CW	
Lamp Type:	LED	Colour:	4000K	Ra:	>80	
IP Rating:	IP66					
Control Gear:	Fixed Output c/w Bluetooth COM5 HCD005S/BT Sensor					
Areas Used:	Cycle Hub					
Notes:	'E' denotes 3-Hour integral emergency variant LiFeP04 (ACQ5WH24KLEM/ZP098)					



Part number:
ACQ5WH24K/ZP098

Project reference:
L1-QH

Product description:
LED IP66 anti-corrosive luminaire with GRP body with high impact polycarbonate injection moulded opal diffuser. High quality seamless gasket for extreme durability. Suitable for mounting externally under canopies, not exposed or in direct sunlight - as Whitecroft Lighting ACL INDUSTRY Complete with Bluetooth COM5 HCD005S/BT sensor



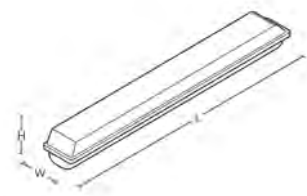
Light source

Light source:	Colour temperature:
LED	4000K, Ra80
Colour render index:	Colour consistency:
>80	MacAdam 3 SDCM
Control gear:	Integral control:
Fixed Output	Bluetooth COM5 HCD005S/BT sensor
Luminaire finish:	
Grey	

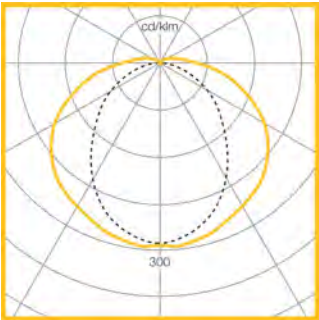
Luminaire performance

Lumens:	Light output ratio:
2794	100.00%
Circuit watts:	LL/CW:
17.7	158
Power factor:	LED life performance:
>0.9	L90B50 @ 50K hours
Emergency:	Emergency output:
N/A	N/A

Dimensions & Weight



Polar Curve (Indicative Only)



VERSION	L	W	H	KG	KG(EM)	Bracket Mount Centres	Cable Entry Points	Surface Mount Centres
1651, 3275 lumen	658	145	101	1.8	2.3	390	530	266
2800, 3900, 4600, 6400 lumen	1282	145	101	2.8	3.3	800	1050/1170	676
7500, 9500 lumen	1578	145	101	3.4	3.9	1100	1345/1170	976



Part number:
ACQ5WH24KLEM/ZP098

Project reference:
L1E-QH

Product description:

LED IP66 anti-corrosive luminaire with GRP body with high impact polycarbonate injection moulded opal diffuser. High quality seamless gasket for extreme durability. Suitable for mounting externally under canopies, not exposed or in direct sunlight - as Whitecroft Lighting ACL INDUSTRY Complete with Bluetooth COM5 HCD005S/BT sensor.



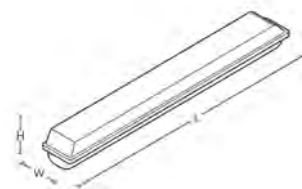
Light source

Light source:	Colour temperature:
LED	4000K, Ra80
Colour render index:	Colour consistency:
>80	MacAdam 3 SDCM
Control gear:	Integral control:
Fixed Output	Bluetooth COM5 HCD005S/BT sensor.
Luminaire finish:	
Grey	

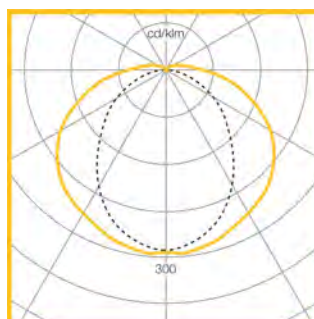
Luminaire performance

Lumens:	Light output ratio:
2794	100%
Circuit watts:	LL/CW:
17.7	158
Power factor:	LED life performance:
>0.9	L90B50 @ 50K hours
Emergency:	Emergency output:
3 hr EM LiFeP04	433

Dimensions & Weight



Polar Curve (Indicative Only)



VERSION	L	W	H	KG	KG(EM)	Bracket Mount Centres	Cable Entry Points	Surface Mount Centres
1651, 3275 lumen	658	145	101	1.8	2.3	390	530	266
2800, 3900, 4600, 6400 lumen	1282	145	101	2.8	3.3	800	1050/1170	676
7500, 9500 lumen	1578	145	101	3.4	3.9	1100	1345/1170	976

Luminaire Specification – L2 & L2E

Luminaire Specification					L2 & L2E	
Manufacturer:	Whitecroft Lighting					
Product Name:	ACL Industry					
Product Code:	ACH64K					
Description:	LED Surface Linear Batten					
Circuit Wattage:	40.3 W	Lumen Output:	6425 lm	Efficacy:	159 LL/CW	
Lamp Type:	LED	Colour:	4000K	Ra:	>80	
IP Rating:	IP66					
Control Gear:	Fixed Output					
Areas Used:	Substation, Plant Room & Risers					
Notes:	'E' denotes 3-Hour integral emergency variant LiFeP04 (ACH64KLEM)					



Part number:
ACH64K

Project reference:
L2

Product description:
LED IP66 anti-corrosive luminaire with GRP body with high impact polycarbonate injection moulded opal diffuser. High quality seamless gasket for extreme durability. Suitable for mounting externally under canopies, not exposed or in direct sunlight - as Whitecroft Lighting ACL INDUSTRY



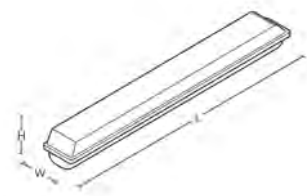
Light source

Light source:	Colour temperature:
LED	4000K, Ra80
Colour render index:	Colour consistency:
>80	MacAdam 3 SDCM
Control gear:	Integral control:
Fixed Output	N/A
Luminaire finish:	
Grey	

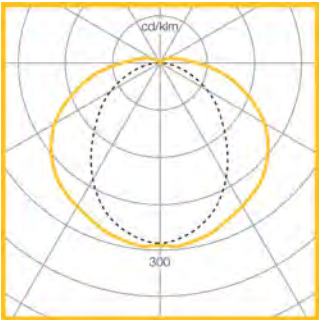
Luminaire performance

Lumens:	Light output ratio:
6425	100.00%
Circuit watts:	LL/CW:
40.3	159
Power factor:	LED life performance:
>0.9	L90B50 @ 50K hours
Emergency:	Emergency output:
N/A	N/A

Dimensions & Weight



Polar Curve (Indicative Only)



VERSION	L	W	H	KG	KG(EM)	Bracket Mount Centres	Cable Entry Points	Surface Mount Centres
1651, 3275 lumen	658	145	101	1.8	2.3	390	530	266
2800, 3900, 4600, 6400 lumen	1282	145	101	2.8	3.3	800	1050/1170	676
7500, 9500 lumen	1578	145	101	3.4	3.9	1100	1345/1170	976



Part number:
ACH64KLEM

Project reference:
L2E

Product description:
LED IP66 anti-corrosive luminaire with GRP body with high impact polycarbonate injection moulded opal diffuser. High quality seamless gasket for extreme durability. Suitable for mounting externally under canopies, not exposed or in direct sunlight - as Whitecroft Lighting ACL INDUSTRY



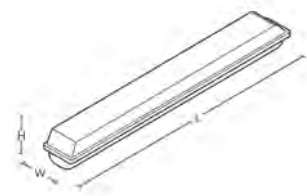
Light source

Light source:	Colour temperature:
LED	4000K, Ra80
Colour render index:	Colour consistency:
>80	MacAdam 3 SDCM
Control gear:	Integral control:
Fixed Output	N/A
Luminaire finish:	
Grey	

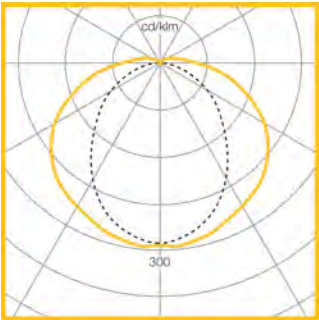
Luminaire performance

Lumens:	Light output ratio:
6425	100%
Circuit watts:	LL/CW:
40.3	159
Power factor:	LED life performance:
>0.9	L90B50 @ 50K hours
Emergency:	Emergency output:
3 hr EM LiFeP04	433

Dimensions & Weight



Polar Curve (Indicative Only)



VERSION	L	W	H	KG	KG(EM)	Bracket Mount Centres	Cable Entry Points	Surface Mount Centres
1651, 3275 lumen	658	145	101	1.8	2.3	390	530	266
2800, 3900, 4600, 6400 lumen	1282	145	101	2.8	3.3	800	1050/1170	676
7500, 9500 lumen	1578	145	101	3.4	3.9	1100	1345/1170	976

Luminaire Specification – L2-QH & L2E-QH

Luminaire Specification					L2-QH & L2E-QH	
Manufacturer:	Whitecroft Lighting					
Product Name:	ACL Industry					
Product Code:	ACQ5WH64K/ZP098					
Description:	LED Surface Linear Batten					
Circuit Wattage:	40.3 W	Lumen Output:	6425 lm	Efficacy:	159 LL/CW	
Lamp Type:	LED	Colour:	4000K	Ra:	>80	
IP Rating:	IP66					
Control Gear:	Fixed Output c/w Bluetooth COM5 HCD005S/BT Sensor					
Areas Used:	Stairs, Lobbies & Storage					
Notes:	'E' denotes 3-Hour integral emergency variant LiFeP04 (ACQ5WH64KLEM/ZP098)					



Part number:
ACQ5WH64K/ZP098

Project reference:
L2-QH

Product description:
LED IP66 anti-corrosive luminaire with GRP body with high impact polycarbonate injection moulded opal diffuser. High quality seamless gasket for extreme durability. Suitable for mounting externally under canopies, not exposed or in direct sunlight - as Whitecroft Lighting ACL INDUSTRY Complete with Bluetooth COM5HCD005S/BT sensor.



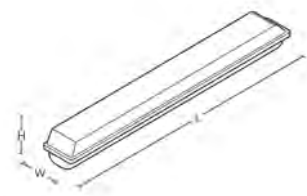
Light source

Light source:	Colour temperature:
LED	4000K, Ra80
Colour render index:	Colour consistency:
>80	MacAdam 3 SDCM
Control gear:	Integral control:
Fixed Output	Bluetooth COM5 HCD005S/BT sensor.
Luminaire finish:	
Grey	

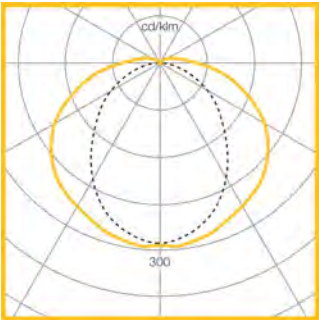
Luminaire performance

Lumens:	Light output ratio:
6425	100.00%
Circuit watts:	LL/CW:
40.3	159
Power factor:	LED life performance:
>0.9	L90B50 @ 50K hours
Emergency:	Emergency output:
N/A	N/A

Dimensions & Weight



Polar Curve (Indicative Only)



VERSION	L	W	H	KG	KG(EM)	Bracket Mount Centres	Cable Entry Points	Surface Mount Centres
1651, 3275 lumen	658	145	101	1.8	2.3	390	530	266
2800, 3900, 4600, 6400 lumen	1282	145	101	2.8	3.3	800	1050/1170	676
7500, 9500 lumen	1578	145	101	3.4	3.9	1100	1345/1170	976



Part number:
ACQ5WH64KLEM/ZP098

Project reference:
L2E-QH

Product description:
LED IP66 anti-corrosive luminaire with GRP body with high impact polycarbonate injection moulded opal diffuser. High quality seamless gasket for extreme durability. Suitable for mounting externally under canopies, not exposed or in direct sunlight - as Whitecroft Lighting ACL INDUSTRY Complete with Bluetooth COM5HCD005S/BT sensor.



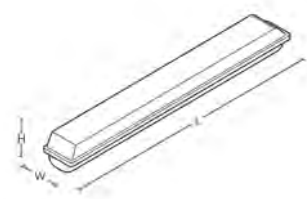
Light source

Light source:	Colour temperature:
LED	4000K, Ra80
Colour render index:	Colour consistency:
>80	MacAdam 3 SDCM
Control gear:	Integral control:
Fixed Output	Bluetooth COM5 HCD005S/BT sensor.
Luminaire finish:	
Grey	

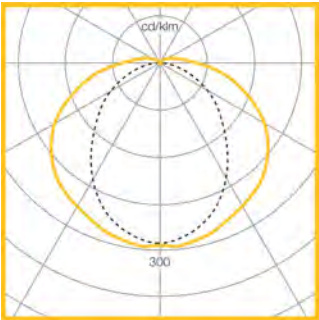
Luminaire performance

Lumens:	Light output ratio:
6425	100%
Circuit watts:	LL/CW:
40.3	159
Power factor:	LED life performance:
>0.9	L90B50 @ 50K hours
Emergency:	Emergency output:
3 hr EM LiFeP04	433

Dimensions & Weight



Polar Curve (Indicative Only)



VERSION	L	W	H	KG	KG(EM)	Bracket Mount Centres	Cable Entry Points	Surface Mount Centres
1651, 3275 lumen	658	145	101	1.8	2.3	390	530	266
2800, 3900, 4600, 6400 lumen	1282	145	101	2.8	3.3	800	1050/1170	676
7500, 9500 lumen	1578	145	101	3.4	3.9	1100	1345/1170	976

Luminaire Specification – L3-QH & L3E-QH

Luminaire Specification					L3-QH & L3E-QH	
Manufacturer:	Whitecroft Lighting					
Product Name:	ACL Industry					
Product Code:	ACQ5WH74K/ZP098					
Description:	LED Surface Linear Batten					
Circuit Wattage:	41.7 W	Lumen Output:	7490 lm	Efficacy:	180 LL/CW	
Lamp Type:	LED	Colour:	4000K	Ra:	>80	
IP Rating:	IP66					
Control Gear:	Fixed Output c/w Bluetooth COM5 HCD005S/BT Sensor					
Areas Used:	Main Car Park					
Notes:	'E' denotes 3-Hour integral emergency variant LiFeP04 (ACQ5WH74KLEM/ZP098)					



Part number:
ACQ5WH74K/ZP098

Project reference:
L3-QH

Product description:
LED IP66 anti-corrosive luminaire with GRP body with high impact polycarbonate injection moulded opal diffuser. High quality seamless gasket for extreme durability. Suitable for mounting externally under canopies, not exposed or in direct sunlight - as Whitecroft Lighting ACL INDUSTRY Complete with Bluetooth COM5 HCD005S/BT sensor.



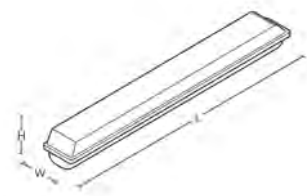
Light source

Light source:	Colour temperature:
LED	4000K, Ra80
Colour render index:	Colour consistency:
>80	MacAdam 3 SDCM
Control gear:	Integral control:
Fixed Output	Bluetooth COM5 HCD005S/BT sensor.
Luminaire finish:	
Grey	

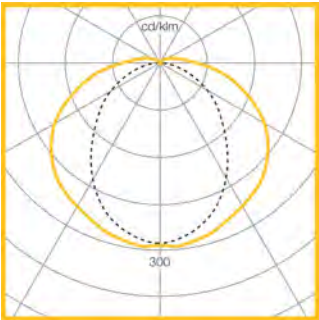
Luminaire performance

Lumens:	Light output ratio:
7490	100.00%
Circuit watts:	LL/CW:
41.7	180
Power factor:	LED life performance:
>0.9	L90B50 @ 50K hours
Emergency:	Emergency output:
N/A	N/A

Dimensions & Weight



Polar Curve (Indicative Only)



VERSION	L	W	H	KG	KG(EM)	Bracket Mount Centres	Cable Entry Points	Surface Mount Centres
1651, 3275 lumen	658	145	101	1.8	2.3	390	530	266
2800, 3900, 4600, 6400 lumen	1282	145	101	2.8	3.3	800	1050/1170	676
7500, 9500 lumen	1578	145	101	3.4	3.9	1100	1345/1170	976



Part number:
ACQ5WH74KLEM/ZP098

Project reference:
L3E-QH

Product description:
LED IP66 anti-corrosive luminaire with GRP body with high impact polycarbonate injection moulded opal diffuser. High quality seamless gasket for extreme durability. Suitable for mounting externally under canopies, not exposed or in direct sunlight - as Whitecroft Lighting ACL INDUSTRY Complete with Bluetooth COM5 HCD005S/BT sensor.



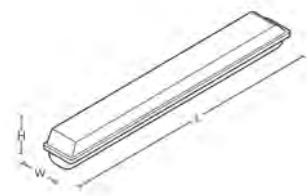
Light source

Light source:	Colour temperature:
LED	4000K, Ra80
Colour render index:	Colour consistency:
>80	MacAdam 3 SDCM
Control gear:	Integral control:
Fixed Output	Bluetooth COM5 HCD005S/BT sensor.
Luminaire finish:	
Grey	

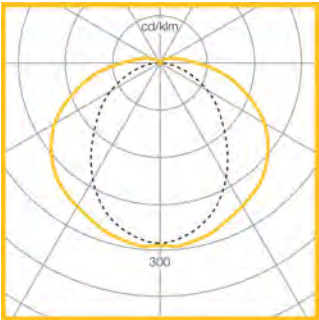
Luminaire performance

Lumens:	Light output ratio:
7490	100%
Circuit watts:	LL/CW:
41.7	180
Power factor:	LED life performance:
>0.9	L90B50 @ 50K hours
Emergency:	Emergency output:
3 hr EM LiFeP04	433

Dimensions & Weight



Polar Curve (Indicative Only)



VERSION	L	W	H	KG	KG(EM)	Bracket Mount Centres	Cable Entry Points	Surface Mount Centres
1651, 3275 lumen	658	145	101	1.8	2.3	390	530	266
2800, 3900, 4600, 6400 lumen	1282	145	101	2.8	3.3	800	1050/1170	676
7500, 9500 lumen	1578	145	101	3.4	3.9	1100	1345/1170	976

Luminaire Specification – L3-QY & L3E-QY

Luminaire Specification					L3-QY & L3E-QY	
Manufacturer:	Whitecroft Lighting					
Product Name:	ACL Industry					
Product Code:	ACQ5WY74K/ZP098					
Description:	LED Surface Linear Batten					
Circuit Wattage:	40.5 W	Lumen Output:	7490 lm	Efficacy:	185 LL/CW	
Lamp Type:	LED	Colour:	4000K	Ra:	>80	
IP Rating:	IP66					
Control Gear:	DALI LED Driver c/w Bluetooth COM5 HCD005S/BT Sensor					
Areas Used:	Main Car Park					
Notes:	'E' denotes 3-Hour integral emergency variant LiFeP04 (ACQ5WY74KLEM/ZP098)					



Part number:
ACQ5WY74K/ZP098

Project reference:
L3-QY

Product description:
LED IP66 anti-corrosive luminaire with GRP body with high impact polycarbonate injection moulded opal diffuser. High quality seamless gasket for extreme durability. Suitable for mounting externally under canopies, not exposed or in direct sunlight - as Whitecroft Lighting ACL INDUSTRY Complete with Bluetooth COM5 HCD405/BT sensor



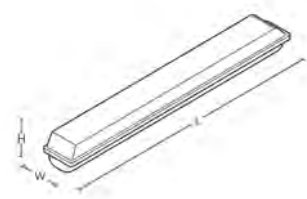
Light source

Light source:	Colour temperature:
LED	4000K, Ra80
Colour render index:	Colour consistency:
>80	MacAdam 3 SDCM
Control gear:	Integral control:
DALI LED Driver	Bluetooth COM5 HCD405/BT sensor
Luminaire finish:	
Grey	

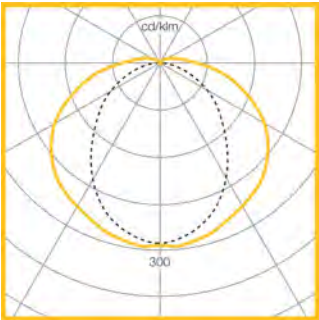
Luminaire performance

Lumens:	Light output ratio:
7490	100.00%
Circuit watts:	LL/CW:
40.5	185
Power factor:	LED life performance:
>0.9	L90B50 @ 50K hours
Emergency:	Emergency output:
N/A	N/A

Dimensions & Weight



Polar Curve (Indicative Only)



VERSION	L	W	H	KG	KG(EM)	Bracket Mount Centres	Cable Entry Points	Surface Mount Centres
1651, 3275 lumen	658	145	101	1.8	2.3	390	530	266
2800, 3900, 4600, 6400 lumen	1282	145	101	2.8	3.3	800	1050/1170	676
7500, 9500 lumen	1578	145	101	3.4	3.9	1100	1345/1170	976



Part number:
ACQ5WY74K/ZP098

Project reference:
L3E-QY

Product description:

LED IP66 anti-corrosive luminaire with GRP body with high impact polycarbonate injection moulded opal diffuser. High quality seamless gasket for extreme durability. Suitable for mounting externally under canopies, not exposed or in direct sunlight - as Whitecroft Lighting ACL INDUSTRY Complete with Bluetooth COM5 HCD405/BT sensor



Light source

Light source:

LED

Colour render index:

>80

Control gear:

DALI LED Driver

Luminaire finish:

Grey

Colour temperature:

4000K, Ra80

Colour consistency:

MacAdam 3 SDCM

Integral control:

Bluetooth COM5 HCD405/BT sensor

Luminaire performance

Lumens:

7490

Circuit watts:

40.5

Power factor:

>0.9

Emergency:

3 hr EM LiFeP04

Light output ratio:

100%

LL/CW:

185

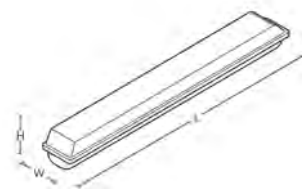
LED life performance:

L90B50 @ 50K hours

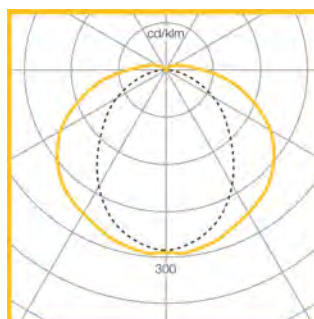
Emergency output:

433

Dimensions & Weight



Polar Curve (Indicative Only)



VERSION	L	W	H	KG	KG(EM)	Bracket Mount Centres	Cable Entry Points	Surface Mount Centres
1651, 3275 lumen	658	145	101	1.8	2.3	390	530	266
2800, 3900, 4600, 6400 lumen	1282	145	101	2.8	3.3	800	1050/1170	676
7500, 9500 lumen	1578	145	101	3.4	3.9	1100	1345/1170	976

Luminaire Specification – X1

Luminaire Specification					X1
Manufacturer:	Whitecroft Lighting				
Product Name:	Mistral Midi				
Product Code:	MIMH44KA + MIWBRKT				
Description:	Post Top LED (Black) c/w Wall Mount Bracket				
Circuit Wattage:	96.5 W	Lumen Output:	14298 lm	Efficacy:	148 LL/CW
Lamp Type:	LED	Colour:	4000K	Ra:	70
IP Rating:	IP66				
Control Gear:	Fixed Output				
Areas Used:	External Ground Level & Roof Level				
Notes:	Area Optic Distribution – Building Structure Mounted				

Mistral Midi



Part number:
MIMH44KA + MIWBRKT

Project reference:
X1

Product description:
Post Top luminaire for side mounting on to wall mounting bracket .Die cast aluminium housing with 4mm clear tempered glass, ventilation gland and finished in polyester powder coat with 20° Angled Wall Mount Console and Area distribution



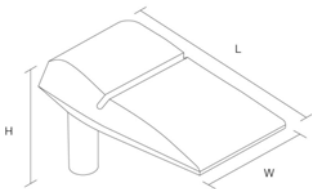
Light source

Light source:	Colour temperature:
LED	4000K
Colour render index:	Colour consistency:
70	MacAdam 3 SDCM
Control gear:	Integral control:
Fixed Output	N/A
Luminaire finish:	
Black	

Luminaire performance

Lumens:	Light output ratio:
14298	100%
Circuit watts:	LL/CW:
96.5	148
Power factor:	LED life performance:
>0.9	L90B50 @ 50K hours
Emergency:	Emergency output:
N/A	N/A

Dimensions & Weight



VERSION	L	W	H	KG	Side windage (m2)
All versions	550	344	266	8.9	0.06

Mistral Midi

PART NUMBER: MIWBRKT



PRODUCT DESCRIPTION

MISTRAL MIDI - Post Top luminaire for side or post top mounting on to compatible column or wall mounting bracket (supplied separately). Die cast aluminium housing with 4mm clear tempered glass, ventilation gland and finished in polyester powder coat.

PRODUCT DESIGN

Product Colour Black
Weight (KG)
Height (mm)

Length/Diameter (mm)
Cut Out (mm)
Optical Material N/A

LIGHTING DATA

Output (lumens) N/A
Emergency Lumens N/A
Wattage N/A
LL/CW N/A
Optic (Light Distribution)
LOR % N/A
Colour Rendering (CRI) N/A
Light Source Colour
Colour Consistency Macadam (SDCM) N/A

ULR % N/A
Life (hrs) to L90B50 N/A
Life (hrs) to L80B50 N/A
Life (hrs) to L70B50 N/A
LXXB50 35000 hrs N/A
LXXB50 50000 hrs N/A
LXXB50 75000 hrs N/A
LXXB50 100000 hrs N/A
SHR Max N/A

TECHNICAL DATA

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

Mounting Method Surface
IP Rating IP66
Min. ambient temperature
Max. ambient temperature

ELECTRICAL DATA

Power Factor Full Load
Voltage N/A
Hertz N/A
Driver Qty

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

MAX NUMBER PER CIRCUIT BREAKER

MCB B10A
MCB B16A
MCB C10A
MCB C16A

VERSION	MODULE DIMS	L	W	Ø	H ₁	H ₂	KG	CAØ	FIXING CENTRE
MIWBRKT									

TO SPECIFY

20° Angled Wall Mount Console

Luminaire Specification – X2

Luminaire Specification					X2
Manufacturer:	Whitecroft Lighting				
Product Name:	Mistral Midi				
Product Code:	MIMH44KA + COLRED76-60A				
Description:	Post Top LED (Black) c/w Column Attachment				
Circuit Wattage:	96.5 W	Lumen Output:	14298 lm	Efficacy:	148 LL/CW
Lamp Type:	LED	Colour:	4000K	Ra:	70
IP Rating:	IP66				
Control Gear:	Fixed Output				
Areas Used:	Roof Level				
Notes:	Area Optic Distribution				

Mistral Midi



Part number:
MIMH44KA

Project reference:
X2

Product description:

Post Top luminaire for post top mounting on to compatible. Die cast aluminium housing with 4mm clear tempered glass, ventilation gland and finished in polyester powder coat with 4m high tubular stepped lighting column with planted root and 76mm spigot diameter and Area distribution



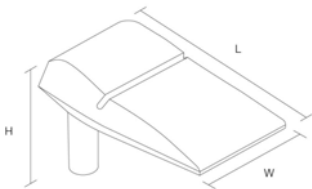
Light source

Light source:	Colour temperature:
LED	4000K
Colour render index:	Colour consistency:
70	MacAdam 3 SDCM
Control gear:	Integral control:
Fixed Output	N/A
Luminaire finish:	
Black	

Luminaire performance

Lumens:	Light output ratio:
14298	100%
Circuit watts:	LL/CW:
96.5	148
Power factor:	LED life performance:
>0.9	L90B50 @ 50K hours
Emergency:	Emergency output:
N/A	N/A

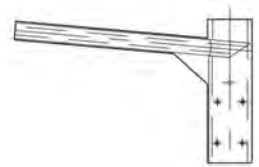
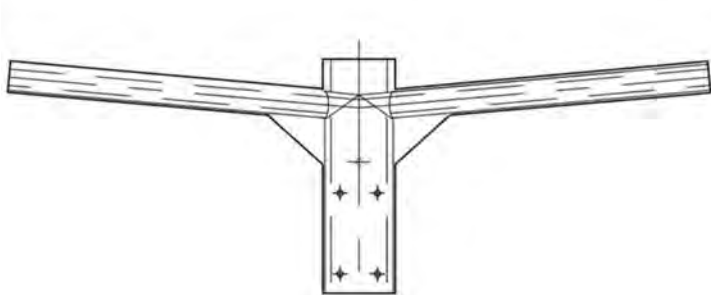
Dimensions & Weight



VERSION	L	W	H	KG	Side windage (m2)
All versions	550	344	266	8.9	0.06

Column Attachments

Range of adapters and brackets to suit lighting columns



Single Outreach Arm

Overview

- Range of adapters and brackets to suit lighting columns:
 - Single reducing adapter for post top luminaires
 - Single or twin 500mm projection outreach arm with 5° incline and 60mm diameter spigot, for side entry luminaires
 - Box section universal floodlight bracket with pre-drilled holes, for 1 or 2 floodlights
- 3 and 4 way brackets for large floodlights available on request
- Hot dipped galvanised finish to BS EN ISO 1461 for maximum protection
- Optional black or silver paint finish for enhanced aesthetics
- See 'tubular columns' for details of lighting columns
- See 'technical information pack' for column, bracket and luminaire combinations

Order codes

Reducing adapters for single 60mm diameter post top luminaire

To suit 4 - 6m (medium duty) columns with 76mm dia shaft / 76mm spigot	COLRED76-60A
To suit 8m (medium duty) columns with 89mm dia shaft / 76mm spigot	COLRED89-60
To suit 10m (medium duty) columns with 114mm dia shaft / 101mm spigot	COLRED114-60
To suit 12m (heavy duty) columns with 140mm dia shaft / 127mm spigot	COLRED140-60
Note: adapters not required when using other attachments	

Outreach arms for 60mm diameter side entry mounting

Outreach arms for 60mm diameter side entry mounting	Single 500mm long	Twin 1000mm long
To suit 4 - 6m (medium duty) columns with 76mm dia shaft / 76mm spigot	CBK500-461	CBK500-462
To suit 4 - 6m (heavy duty) columns with 89mm dia shaft / 76mm spigot	Use medium duty	CBK500-462H
To suit 8m (medium duty) columns with 89mm dia shaft / 76mm spigot	CBK500-81	Use Heavy Duty
To suit 8m (heavy duty) columns with 114mm dia shaft / 101mm spigot	Use Medium Duty	CBK500-82
To suit 10m (medium duty) columns with 114mm dia shaft / 101mm spigot	CBK500-101	Use Heavy Duty
To suit 10m (heavy duty) columns with 140mm dia shaft / 127mm spigot	Use Medium Duty	CBK500-102
To suit 12m (heavy duty) columns with 140mm dia shaft / 127mm spigot	CBK500-121	CBK500-102

Single and twin floodlight brackets

1 and 2 Way Floodlight Brackets	Single 500mm long	Twin 1000mm long
To suit 4 - 6m (medium duty) columns with 76mm dia shaft / 76mm spigot	CBKFA500-461	CBKFA1000-462
To suit 8m (medium duty) columns with 89mm dia shaft / 76mm spigot	CBKFA500-81	Use Heavy Duty
To suit 8m (heavy duty) columns with 114mm dia shaft / 101mm spigot	Use Medium Duty	CBKFA1000-82
To suit 10m (medium duty) columns with 114mm dia shaft / 101mm spigot	CBKFA500-101	Use Heavy Duty
To suit 10m (heavy duty) columns with 140mm dia shaft / 127mm spigot	Use Medium Duty	CBKFA1000-102
To suit 12m (heavy duty) columns with 140mm dia shaft / 127mm spigot	CBKFA500-121	CBKFA1000-102
Note: Floodlight brackets galvanised finish only 3 and 4 way brackets for large floodlights available on request		

Options (outreach arms & reducers)

BLACK FINISH	Add suffix /BLK	ie. CBK500-461/BLK
SILVER FINISH	Add suffix /SLVR	ie. CBK500-461/SLVR

Dimensions

For Dimensions, please see the Technical Information Pack

To Specify

Column attachment to suit post top / side entry luminaire or floodlight stirrup mounting - as Whitecroft Lighting COLUMN ATTACHMENTS

Luminaire Specification – X4

Luminaire Specification					X4
Manufacturer:	Whitecroft Lighting				
Product Name:	Mistral Midi				
Product Code:	2no. MIMH44KA + CBK500-462				
Description:	Post Top LED (Black) c/w Twin Outreach Arm Column Attachment				
Circuit Wattage:	96.5 W	Lumen Output:	14298 lm	Efficacy:	148 LL/CW
Lamp Type:	LED	Colour:	4000K	Ra:	70
IP Rating:	IP66				
Control Gear:	Fixed Output				
Areas Used:	Roof Level				
Notes:	Area Optic Distribution				

Mistral Midi

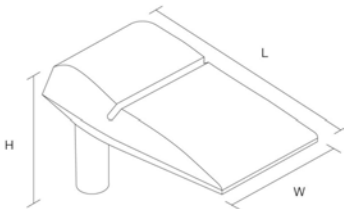
PART NUMBER: MIMH44KA



PRODUCT DESCRIPTION

MISTRAL MIDI - Post Top luminaire for side or post top mounting on to compatible column or wall mounting bracket (supplied separately). Die cast aluminium housing with 4mm clear tempered glass, ventilation gland and finished in polyester powder coat.

DIMENSIONS & WEIGHT



PRODUCT DESIGN

Product Colour Black
Weight (KG) 8.9
Height (mm) 266

Length/Diameter (mm) 550
Cut Out (mm) N/A
Optical Material Acrylic (PMMA)

LIGHTING DATA

Output (lumens) 14298
Emergency Lumens N/A
Wattage 96.5
LL/CW 148.2
Optic (Light Distribution) See Description
LOR % 100
Colour Rendering (CRI) 70
Light Source Colour 4000K
Colour Consistency Macadam (SDCM) 3

ULR % 0
Life (hrs) to L90B50 >100,000hrs
Life (hrs) to L80B50 >100,000hrs
Life (hrs) to L70B50 >100,000hrs
LXXB50 35000 hrs 97.7
LXXB50 50000 hrs 97.5
LXXB50 75000 hrs 97.1
LXXB50 100000 hrs 96.7
SHR Max

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 -40
Max. ambient temperature 40

ELECTRICAL DATA

Power Factor Full Load 0.99
Voltage 240V
Hertz 50/60Hz
Driver Qty 1

Electrical class 1
Min Dim % 10
Output Current Tolerance % +/- 3%
Output Current Ripple % <5%

MAX NUMBER PER CIRCUIT BREAKER

MCB B10A 5
MCB B16A 9
MCB C10A 9
MCB C16A 15

POLAR CURVE



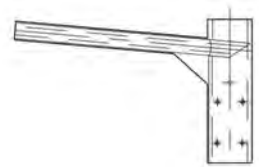
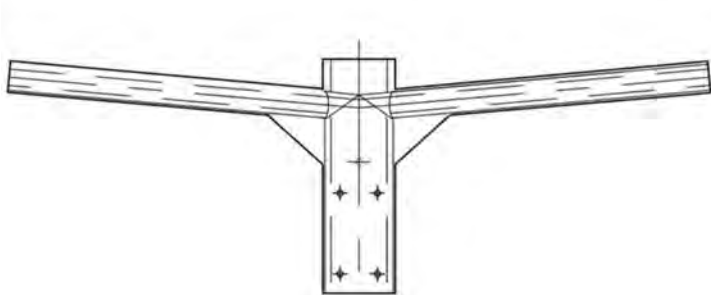
VERSION	MODULE DIMS	L	W	Ø	H ₁	H ₂	KG	CAØ	FIXING CENTRE
MIMH44KA		550	344	N/A	266	142	8.9	N/A	N/A

TO SPECIFY

Post Top luminaire for side or post top mounting on to compatible column or wall mounting bracket (supplied separately). Die cast aluminium housing with 4mm clear tempered glass, ventilation gland and finished in polyester powder coat. - As Whitecroft Lighting MISTRAL MIDI

Column Attachments

Range of adapters and brackets to suit lighting columns



Single Outreach Arm

Overview

- Range of adapters and brackets to suit lighting columns:
 - Single reducing adapter for post top luminaires
 - Single or twin 500mm projection outreach arm with 5° incline and 60mm diameter spigot, for side entry luminaires
 - Box section universal floodlight bracket with pre-drilled holes, for 1 or 2 floodlights
- 3 and 4 way brackets for large floodlights available on request
- Hot dipped galvanised finish to BS EN ISO 1461 for maximum protection
- Optional black or silver paint finish for enhanced aesthetics
- See 'tubular columns' for details of lighting columns
- See 'technical information pack' for column, bracket and luminaire combinations

Order codes

Reducing adapters for single 60mm diameter post top luminaire

To suit 4 - 6m (medium duty) columns with 76mm dia shaft / 76mm spigot	COLRED76-60A
To suit 8m (medium duty) columns with 89mm dia shaft / 76mm spigot	COLRED89-60
To suit 10m (medium duty) columns with 114mm dia shaft / 101mm spigot	COLRED114-60
To suit 12m (heavy duty) columns with 140mm dia shaft / 127mm spigot	COLRED140-60
Note: adapters not required when using other attachments	

Outreach arms for 60mm diameter side entry mounting

Outreach arms for 60mm diameter side entry mounting	Single 500mm long	Twin 1000mm long
To suit 4 - 6m (medium duty) columns with 76mm dia shaft / 76mm spigot	CBK500-461	CBK500-462
To suit 4 - 6m (heavy duty) columns with 89mm dia shaft / 76mm spigot	Use medium duty	CBK500-462H
To suit 8m (medium duty) columns with 89mm dia shaft / 76mm spigot	CBK500-81	Use Heavy Duty
To suit 8m (heavy duty) columns with 114mm dia shaft / 101mm spigot	Use Medium Duty	CBK500-82
To suit 10m (medium duty) columns with 114mm dia shaft / 101mm spigot	CBK500-101	Use Heavy Duty
To suit 10m (heavy duty) columns with 140mm dia shaft / 127mm spigot	Use Medium Duty	CBK500-102
To suit 12m (heavy duty) columns with 140mm dia shaft / 127mm spigot	CBK500-121	CBK500-102

Single and twin floodlight brackets

1 and 2 Way Floodlight Brackets	Single 500mm long	Twin 1000mm long
To suit 4 - 6m (medium duty) columns with 76mm dia shaft / 76mm spigot	CBKFA500-461	CBKFA1000-462
To suit 8m (medium duty) columns with 89mm dia shaft / 76mm spigot	CBKFA500-81	Use Heavy Duty
To suit 8m (heavy duty) columns with 114mm dia shaft / 101mm spigot	Use Medium Duty	CBKFA1000-82
To suit 10m (medium duty) columns with 114mm dia shaft / 101mm spigot	CBKFA500-101	Use Heavy Duty
To suit 10m (heavy duty) columns with 140mm dia shaft / 127mm spigot	Use Medium Duty	CBKFA1000-102
To suit 12m (heavy duty) columns with 140mm dia shaft / 127mm spigot	CBKFA500-121	CBKFA1000-102
Note: Floodlight brackets galvanised finish only 3 and 4 way brackets for large floodlights available on request		

Options (outreach arms & reducers)

BLACK FINISH	Add suffix /BLK	ie. CBK500-461/BLK
SILVER FINISH	Add suffix /SLVR	ie. CBK500-461/SLVR

Dimensions

For Dimensions, please see the Technical Information Pack

To Specify

Column attachment to suit post top / side entry luminaire or floodlight stirrup mounting - as Whitecroft Lighting COLUMN ATTACHMENTS

Luminaire Specification – EM

Luminaire Specification					EM	
Manufacturer:	Whitecroft Lighting					
Product Name:	Concert EX65					
Product Code:	EX65M3LEM					
Description:	Surface IP65 Emergency LED Bulkhead					
Circuit Wattage:	3.2 W	Lumen Output:	151 lm	Efficacy:	n/a	
Lamp Type:	LED	Colour:	4000K	Ra:	n/a	
IP Rating:	IP65					
Control Gear:	n/a					
Areas Used:	External Final Exits & Substation/Plant Room					
Notes:	3-Hour integral emergency LiFeP04 – Maintained					

Concert EX65



Part number:
EX65M3LEM

Project reference:
EM

Product description:
Surface IP65 Emergency LED bulkhead complete with polycarbonate TP(a) fresnal lens. 3hr maintained or non maintained - as Whitecroft Lighting CONCERT EX65.



Light source

Light source:	Colour temperature:
N/A	N/A
Colour render index:	Colour consistency:
N/A	N/A
Control gear:	Integral control:
N/A	N/A
Luminaire finish:	
White	

Luminaire performance

Lumens:	Light output ratio:
N/A	N/A
Circuit watts:	LL/CW:
N/A	0
Power factor:	LED life performance:
>0.9	L90B50 @ 50K hours
Emergency:	Emergency output:
3 hr EM LiFeP04	N/A

L	W	H	KG(EM)
350	120	90	1.2

Luminaire Specification – EM1

Luminaire Specification					EM1
Manufacturer:	Whitecroft Lighting				
Product Name:	Concert EX65				
Product Code:	EX65M3LEM + EX65LK/7010				
Description:	Surface IP65 Emergency LED Bulkhead c/w Legend Kit				
Circuit Wattage:	3.2 W	Lumen Output:	151 lm	Efficacy:	n/a
Lamp Type:	LED	Colour:	4000K	Ra:	n/a
IP Rating:	IP65				
Control Gear:	n/a				
Areas Used:	Roof Level Escape Routes				
Notes:	3-Hour integral emergency LiFeP04 – Maintained Viewing Distance – 25m				

Concert EX65

**Part number:**

EX65M3LEM + EX65LK/7010

Project reference:

EM1

Product description:

Surface IP65 Emergency LED bulkhead complete with polycarbonate TP(a) fresnal lens. 3hr maintained or non maintained - as Whitecroft Lighting CONCERT EX65with legend kit



Light source**Light source:**

N/A

Colour temperature:

4000K, Ra80

Colour render index:

N/A

Colour consistency:

N/A

Control gear:

N/A

Integral control:

N/A

Luminaire finish:

White

Luminaire performance**Lumens:**

N/A

Circuit watts:

N/A

Power factor:

>0.9

Emergency:

3 hr EM LiFeP04

Light output ratio:

N/A

LL/CW:

N/A

LED life performance:

L90B50 @ 50K hours

Emergency output:

N/A

L	W	H	KG(EM)
350	120	90	1.2

Luminaire Specification – EXIT

Luminaire Specification					EXIT
Manufacturer:	Whitecroft Lighting				
Product Name:	Egress Exit				
Product Code:	EESM30				
Description:	LED Emergency Exit Sign c/w Legends				
Circuit Wattage:	3.2 W	Lumen Output:	120 lm	Efficacy:	n/a
Lamp Type:	LED	Colour:	4000K	Ra:	n/a
IP Rating:	IP40				
Control Gear:	n/a				
Areas Used:	Roof Level Escape Routes				
Notes:	3-Hour integral emergency LiFeP04 – Maintained Viewing Distance – 30m				

Egress Exit

**Part number:**

EESM30

Project reference:

EXIT

Product description:

Self-contained LED maintained emergency sign luminaire with rigid body and an easy to install full set of legends. Ceiling mounted surface, suspended or recessed with LiFePO4 battery, energy efficient charger and LED charge indicator – as Whitecroft Lighting EGRESS EXIT.

**Light source****Light source:**

LED

Colour render index:

N/A

Control gear:

N/A

Luminaire finish:

N/A

Colour temperature:

4000K

Colour consistency:

N/A

Integral control:

N/A

Luminaire performance**Lumens:**

N/A

Circuit watts:

N/A

Power factor:

>0.9

Emergency:

3hr Maint

Light output ratio:

N/A

LL/CW:

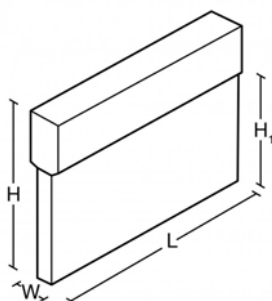
N/A

LED life performance:

L90B50 @ 50K hours

Emergency output:

N/A

Dimensions & Weight

VERSION	L	W	H	H1	KG(EM)	Cut Aperture
Exit Sign	330	45	250	195	2.5	
Recessing Frame	388	80	60		0.5	372x55

Supporting Documentation – Controls

Whitecroft Bluetooth Kinetic Switch (Q5WSWITCH)

Part No: W/HBKS01D/W

Hytronic Bluetooth Kinetic Switch – Singular Rocker

Location Used: Plant Room & First Floor Riser

Whitecroft Solo (2SR)

Part No: SLPPCHR

Programmable Switching PIR presence detector

Location Used: Staff Room & Staff WC

Bluetooth Kinetic Switch

**Part number:**

W/HBKS01D/W

Project reference:

Q5WSWITCH

Product description:

HYTRONIC - Bluetooth Kinetic Switch. Single Rocker

Light source**Light source:**

N/A

Colour render index:

N/A

Control gear:

N/A

Luminaire finish:

WHITE

Colour temperature:

N/A

Colour consistency:

N/A

Integral control:

N/A

Luminaire performance**Lumens:**

N/A

Circuit watts:

N/A

Power factor:

N/A

Emergency:

N/A

Light output ratio:

N/A

LL/CW:

N/A

LED life performance:

N/A

Emergency output:

N/A

Whitecroft Solo



Programmable switching PIR absence/presence detector/photocell

PART NUMBER: SLPPCHR

PROJECT REFERENCE: 2SR

PRODUCT DESIGN

Product Colour White

Material Flame retardant PC/ABS



PRODUCT DESCRIPTION

WHITECROFT SOLO - Switching programmable PIR presence/absence detector with photocell. 360° coverage with a 7m diameter micro detection to 10m diameter macro detection range at a 2.5m mounting height. Maximum mounting height of 3.5m. Programmable time-out. Excessive daylight contribution hold-off. Local override by infrared handheld controller to be ordered separately. Requires onsite commissioning. Whitecroft Lighting offer a fully comprehensive commissioning service. A handheld commissioning device is also available to be ordered separately.

TECHNICAL DATA

Product Type Detector
Sensor Technology PIR
Communication Method Infrared
Programmable
Installation Method Wired
Coverage 360°
Mounting Method Recessed
IP Rating IP40

Min. operating temperature 0
Max. operating temperature +40
Number of DALI addresses N/A
Max. mounting height 3.5m
Detection Range 7m micro, 10m macro
@ 2.5m
Photocell Yes

ELECTRICAL DATA

Power Consumption 500mW Load On
Supply Voltage 220-240V
Input Frequency Hertz 50/60Hz
Output Voltage 230V AC

Max Switching Load 6A or 110W with
LED Load
Standby Load 0.15
Inrush Current 200A
Recommended Circuit Protection 16A
MCB

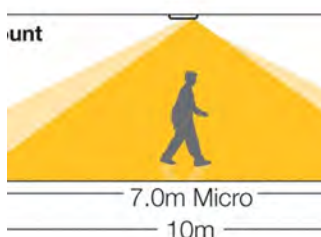
CONFORMITY

EMC-2014/30/EU, LVD - 2014/35/EU, RoHS-2011/65/EU

DIMENSIONS & WEIGHT



PERFORMANCE DIAGRAM



VERSION	MODULE DIMS	L	W	Ø	H ₁	H ₂	KG	CAØ	FIXING CENTRE
SLPPCHR				87	92.6	75	0.121	73	

TO SPECIFY

Switching programmable PIR presence/absence detector with photocell. 360° coverage with a 7m diameter micro detection to 10m diameter macro detection range at a 2.5m mounting height. Maximum mounting height of 3.5m. Programmable time-out. Excessive daylight contribution hold-off. Local override by infrared handheld controller to be ordered separately. Requires onsite commissioning. Whitecroft Lighting offer a fully comprehensive commissioning service. A hand held commissioning device is also available to be ordered separately - as Whitecroft SOLO.

