

Technical Submittal - UCLH P5 33695



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Package Number:	6000
Package Name:	Mechanical & Electrical
Company Name:	Dornan Engineering
Sub Contractor manager:	James Ryan
File Name:	P5-DES-001-ZZ-TS-E-0009
Document Title:	Type I1, I2, I3 Luminaires
Purpose of Issue:	See Conject for current purpose of issue.

Status by Lead Reviewer:	<i>See Conject for current status</i>
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Version History			
Revision No.	Date Issued	Prepared By	Status
P01	06/09/17	Tony McMeiken	For Approval
C01	13/12/17	Tony McMeiken	For Construction
C02	17/08/18	Peter Hefta	For Construction

Design Information and Technical Data used to prepare submittal																						
Equipment Data Sheets / Schedules :	<ul style="list-style-type: none"> • P5-ARP-Z0-SP-Z-0011 (Appendix 2 Luminaire Schedule) • • 																					
Particular Specification:	<ul style="list-style-type: none"> • P5-ARP-Z0-SP-Z-0004_iss2_revT02 • • 																					
Materials & Workmanship:	<ul style="list-style-type: none"> • • • 																					
Drawings:	<table border="0"> <tr> <td>P5-DES-001-00-DR-E-1003</td> <td>P5-DES-001-03-DR-E-1004</td> <td>P5-DES-001-B1-DR-E-1003</td> </tr> <tr> <td>P5-DES-001-00-DR-E-1004</td> <td>P5-DES-001-04-DR-E-1003</td> <td>P5-DES-001-B1-DR-E-1004</td> </tr> <tr> <td>P5-DES-001-01-DR-E-1003</td> <td>P5-DES-001-04-DR-E-1004</td> <td>P5-DES-001-B2-DR-E-1003</td> </tr> <tr> <td>P5-DES-001-01-DR-E-1004</td> <td>P5-DES-001-05-DR-E-1003</td> <td>P5-DES-001-B2-DR-E-1004</td> </tr> <tr> <td>P5-DES-001-02-DR-E-1003</td> <td>P5-DES-001-05-DR-E-1004</td> <td>P5-DES-001-B3-DR-E-1003</td> </tr> <tr> <td>P5-DES-001-02-DR-E-1004</td> <td>P5-DES-001-R6-DR-E-1003</td> <td>P5-DES-001-B3-DR-E-1004</td> </tr> <tr> <td>P5-DES-001-03-DR-E-1003</td> <td>P5-DES-001-R6-DR-E-1004</td> <td></td> </tr> </table>	P5-DES-001-00-DR-E-1003	P5-DES-001-03-DR-E-1004	P5-DES-001-B1-DR-E-1003	P5-DES-001-00-DR-E-1004	P5-DES-001-04-DR-E-1003	P5-DES-001-B1-DR-E-1004	P5-DES-001-01-DR-E-1003	P5-DES-001-04-DR-E-1004	P5-DES-001-B2-DR-E-1003	P5-DES-001-01-DR-E-1004	P5-DES-001-05-DR-E-1003	P5-DES-001-B2-DR-E-1004	P5-DES-001-02-DR-E-1003	P5-DES-001-05-DR-E-1004	P5-DES-001-B3-DR-E-1003	P5-DES-001-02-DR-E-1004	P5-DES-001-R6-DR-E-1003	P5-DES-001-B3-DR-E-1004	P5-DES-001-03-DR-E-1003	P5-DES-001-R6-DR-E-1004	
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P5-DES-001-03-DR-E-1003	P5-DES-001-R6-DR-E-1004																					
Schematics/Diagrammatic:	<ul style="list-style-type: none"> • • 																					
Supplementary Specs:	<ul style="list-style-type: none"> • • • 																					

Attachments *(Tick as appropriate)*

- Catalogue Details
- Design Check Calculations
- Manufacturing Drawings
- Wiring/Control Diagrams
- Sample List
- BWIC requirements
- Assembly / installation details
- O&M instructions
- List of recommended spares
- Interface and coordination with other packages
- FAT / SAT Test Requirements
- Description of Operation

Specification Compliance Statement			
<p>Technical Submission fully compliant <table border="1" style="border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px;"></td> </tr> </table> </p> <p>If no then proposed deviations are:</p>		Y	
Y			
Specification Requirement	Proposed Deviation		

1) ARUP Data Sheets

Please refer to next page

Job Title: UCLH Phase 5

Date: 22/01/2015

Job Number: 232426-00

Purpose of Issue: Tender

Revision: T01

Luminaire Reference: TYPE I1

General Description

Stand alone recessed or surface mounted white high performance LED emergency luminaire

Complete with charge indicator, driver, charger and battery, capable for operation in non maintained mode.

Driver to ensure constant lightin output independent of battery voltage for 3 hours from mains failure.

General Appearance



Luminaire

Manufacturer	Whitecroft
Manufacturing standard	EN 60598
Catalogue number	Florin - FLE31/EP or FLE23/EP
Finish	-
EMC	BS EN 55015

Light Source

Type	LED
Wattage	3W
Designation	148lm
Colour / Beam	Standard

Control Gear / Transformer

Type	DALI 220-240 Vac
Dimmable	Yes
Location (Remote/Integral)	Integral

Accessories

Lens	Open Plan / Escape Route
Baffle	-
Other	IP30

Location

Variable

Equipment supplied to be as specified or equal approved

Additional Information

1. 3-hour maintained emergency operation
2. All products to have a wipeable smooth clean surface. No screw heads or slots will be allowed.
- 3.
- 4.

Job Title: UCLH Phase 5

Date: 22/01/2015

Job Number: 232426-00

Purpose of Issue: Tender

Revision: T01

Luminaire Reference: TYPE I2


General Description

Stand alone recessed or surface mounted white high performance LED emergency luminaire

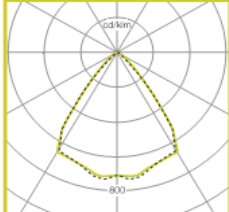
Complete with charge indicator, driver, charger and battery, capable for operation in non maintained mode.

Driver to ensure constant lightin output independent of battery voltage for 3 hours from mains failure.

General Appearance



Photometric Performance

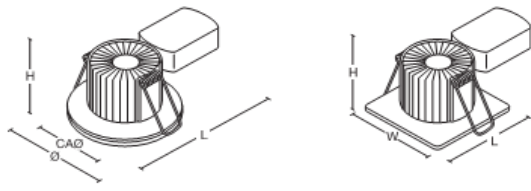


Flood
9W LED
660 lumens
• LOR = 100%
• SHR MAX = 1.47

Utilisation Factors UF(F)

Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.84	1.04	1.09

Dimensions



Version	Ø	L	W	CAØ	H	KG
Circular bezel	90	NA	NA	60-70	56	0.3

Luminaire

Manufacturer	Whitecroft
Manufacturing standard	BS EN 60598
Catalogue number	Concert Fire - CNFH14KFL
Finish	Cast aluminium body
EMC	BS EN 55015

Light Source

Type	LED
Wattage	9W
Designation	650lm
Colour / Beam	4000K

Control Gear / Transformer

Type	DALI 220-240 Vac
Dimmable	No
Location (Remote/Integral)	Integral

Accessories

Lens	-
Baffle	-
Other	IP65

Location

Variable

Equipment supplied to be as specified or equal approved

Additional Information

1. 3-hour maintained emergency operation
2. All products to have a wipeable smooth clean surface. No screw heads or slots will be allowed.
- 3.
- 4.

2) Catalogue Details

Please refer to next page

Florin E3 - Escape Route Distribution



Project reference:

I1

Part number:

FLE32/EP

Product description:

IP30 Stand alone recessed white high performance LED emergency luminaire with Escape Route / Corridor distribution, complete with charge indicator, driver, charger and battery, capable of operation in non maintained mode. Driver to ensure constant light output independent of battery voltage for 3 hours from mains failure - as Whitecroft Lighting FLORIN E3



Light source

Light source:

LED, 148 lumens

Colour temperature:

4000K+

Colour render index:

Colour consistency:

Control gear:

Remote fixed output (NON DIMMABLE)

Integral control:

N/A

Luminaire performance

LL/CW:

N/A

Circuit watts:

3W

Light output ratio:

100%

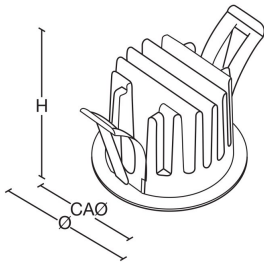
Emergency

Remote 3 hour emergency battery pack and DALI EMPRO inverter

Finish

White RAL 9016

Dimensions & Weight



VERSION	L	W	H	Ø	CAØ
Recessed Florin E3 head			45	50	43
Recessed Florin E3 articulated driver	414	29	28		

Florin E3 High Level



Project reference:

I2

Part number:

FLH31/EP

Product description:

IP30 stand alone recessed white high level LED emergency luminaire, complete with charge indicator, driver, charger and battery, capable of operation in non maintained mode. Driver to ensure constant light output independent of battery voltage for 3 hours from mains failure – as Whitecroft Lighting FLORIN E3 HIGH LEVEL



Light source

Light source:

LED, 300 lumens

Colour temperature:

4000K+

Colour render index:

Colour consistency:

Control gear:

Remote Fixed Output (Non Dimming)

Integral control:

N/A

Luminaire performance

LL/CW:

N/A

Circuit watts:

6W

Light output ratio:

100%

Emergency

Remote 3 hour emergency battery pack and DALI EMPRO inverter

Finish

White RAL 9016

VERSION	L	W	H	Ø	CAØ
LED Head			45	48	43
Driver	475	41	21		

Florin E3 Open Area Distribution



Project reference:

I3

Part number:

FLE31/EP

Product description:

IP30 stand alone recessed white open area high performance LED emergency luminaire, complete with charge indicator, driver, charger and battery, capable of operation in non maintained mode. Driver to ensure constant light output independent of battery voltage for 3 hours from mains failure - as Whitecroft Lighting FLORIN E3 OPEN AREA



Light source

Light source:

LED, 148 lumen

Colour temperature:

4000K+

Colour render index:

N/A

Colour consistency:

Integral control:

N/A

Control gear:

Remote Fixed Output (Non Dimming)

Luminaire performance

LL/CW:

N/A

Circuit watts:

3W

Light output ratio:

100%

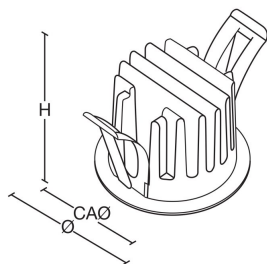
Emergency

Remote 3 hour emergency battery pack and DALI EMPRO inverter

Finish

White RAL 9016

Dimensions & Weight



VERSION	L	W	H	Ø	CAØ
Recessed Florin E3 head			45	50	43
Recessed Florin E3 articulated driver	414	29	28		