

## Technical Submittal - UCLH P5 33695



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|                                |   |
|--------------------------------|---|
| <b>Package Number:</b>         | 6000                                      |
| <b>Package Name:</b>           | Mechanical & Electrical                   |
| <b>Company Name:</b>           | Dornan Engineering                        |
| <b>Sub Contractor manager:</b> | James Ryan                                |
| <b>File Name:</b>              | P5-DES-001-ZZ-TS-E-0013                   |
| <b>Document Title:</b>         | Type NE Luminaire                         |
| <b>Purpose of Issue:</b>       | See Conject for current purpose of issue. |

|                                 |  |
|---------------------------------|--|
| <b>Status by Lead Reviewer:</b> | <b><i>See Conject for current status</i></b> |
|---------------------------------|--|

| Version History |             |               |                  |
|-----------------|-------------|---------------|------------------|
| Revision No.    | Date Issued | Prepared By   | Status           |
| P01             | 06/07/17    | Tony McMeiken | For Approval     |
| P02             | 24/10/17    | Tony McMeiken | For Approval     |
| P03             | 15/12/17    | Tony McMeiken | For Approval     |
| C01             | 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"><li>P5-ARP-Z0-SP-Z-0011 (Appendix 2 Luminaire Schedule)</li><li></li><li></li></ul>   |   |  |
| Particular Specification:                                       | <ul style="list-style-type: none"><li>P5-ARP-Z0-SP-Z-0004_iss2_revT02</li><li></li><li></li></ul>   |   |  |
| Materials & Workmanship:  | <ul style="list-style-type: none"><li></li><li></li><li></li></ul>  |   |  |
| Drawings:   | P5-DES-001-00-DR-E-1003<br>P5-DES-001-00-DR-E-1004<br>P5-DES-001-01-DR-E-1003<br>P5-DES-001-01-DR-E-1004<br>P5-DES-001-02-DR-E-1003<br>P5-DES-001-02-DR-E-1004<br>P5-DES-001-03-DR-E-1003 | P5-DES-001-03-DR-E-1004<br>P5-DES-001-04-DR-E-1003<br>P5-DES-001-04-DR-E-1004<br>P5-DES-001-05-DR-E-1003<br>P5-DES-001-05-DR-E-1004<br>P5-DES-001-R6-DR-E-1003<br>P5-DES-001-R6-DR-E-1004 | P5-DES-001-B1-DR-E-1003<br>P5-DES-001-B1-DR-E-1004<br>P5-DES-001-B2-DR-E-1003<br>P5-DES-001-B2-DR-E-1004<br>P5-DES-001-B3-DR-E-1003<br>P5-DES-001-B3-DR-E-1004 |
| Schematics/Diagrammatic:  | <ul style="list-style-type: none"><li></li><li></li></ul>   |   |  |
| Supplementary Specs:  | <ul style="list-style-type: none"><li></li><li></li><li></li></ul>  |   |  |

## 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

Technical Submission fully compliant

|  |   |
|--|---|
|  | N |
|--|---|

If no then proposed deviations are:

| Specification Requirement   | Proposed Deviation  |
|---|---|
| <p><b>Manufacturer:</b> Apollo<br/> <b>Product Code:</b> Delux LED - DELED2/EAD<br/> <b>Description:</b> Surface mounted circular LED bulkhead luminaire with elegant appearance polycarbonate opal diffuser.</p> <p>Arup Specification states down-lighter fittings are to be Zhaga compliant.</p> | <p><b>Manufacturer:</b> Whitecroft<br/> <b>Product Code:</b> NE - K6Y4274KS+K6ATR4S<br/> <b>Description:</b> Surface mounted circular IP65 LED bulkhead luminaire in 300 or 400mm diameter. Polycarbonate opal diffuser</p> <p><i>As per agreed VE option M4</i></p> <p>The Kolo IP65 fitting has not been confirmed as Zhaga compliant, however the driver is Tridonic and the LED's are by Samsung, both of which are Zhaga compliant products and manufacturers.</p> |

## 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

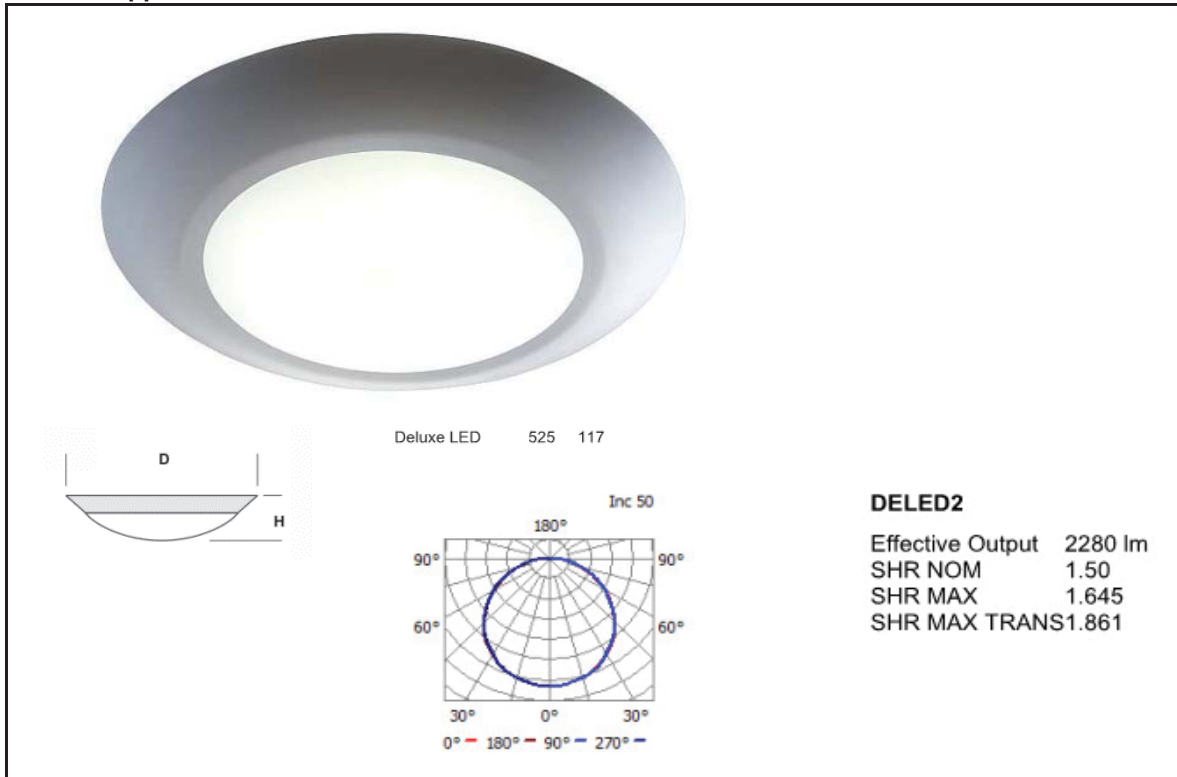
Revision: T01

Luminaire Reference: TYPE NE

**General Description**

Surface mounted circular LED bulkhead luminaire with elegant appearance polycarbonate opal diffuser.

Integrated with microwave presence detector with ON/OFF or set-back

**General Appearance****Luminaire**

|                        |                        |
|------------------------|------------------------|
| Manufacturer           | Apollo                 |
| Manufacturing standard | BS EN 60598            |
| Catalogue number       | Delux LED - DELED2/EAD |
| Finish                 | White Front Bezel      |
| EMC                    | BS EN 55015            |

**Light Source**

|               |                   |
|---------------|-------------------|
| Type          | LED               |
| Wattage       | 22.8W             |
| Designation   | 2280lm            |
| Colour / Beam | 4000K - Ra min 80 |

**Control Gear / Transformer**

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

**Accessories**

|        |                             |
|--------|-----------------------------|
| Lens   | Opal Polycarbonate Diffuser |
| Baffle | -                           |
| Other  | IP44                        |

**Location**

|           |
|-----------|
| Stairwell |
|-----------|

*Equipment supplied to be as specified or equal approved***Additional Information**

1. All products to have a wipeable smooth clean surface. No screw heads or slots will be allowed.

2. 3-hour maintained emergency operation

3. Acceptance of this light fitting shall be subjected to architect's approval

4.

## 2) Catalogue Details

Please refer to next page

# Horizon 360



Project reference:

NE

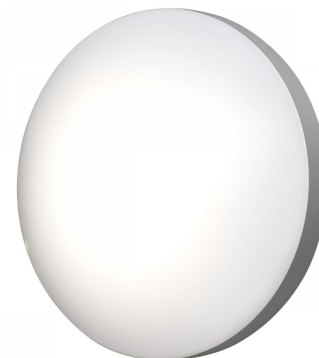
Part number:

HZY34KEP

## Product description:

Surface mounted circular IP44 LED bulkhead luminaire with polycarbonate opal diffuser. Innovative hinged LED light engine for excellent uniformity of light – as Whitecroft Lighting HORIZON 360.

\*\* Integrated Microwave Detector removed at the request of Dornan Engineering as the luminaires are controlled by the Lighting Management System \*\*



## Light source

Light source:

LED, 2300 lumen

Colour temperature:

4000K

Colour render index:

>80

Colour consistency:

MacAdam 3 SDCM

Control gear:

Integral DALI dimmable driver

Integral control:

N/A

## Luminaire performance

LL/CW:

97.54

Circuit watts:

24W

Light output ratio:

100.00%

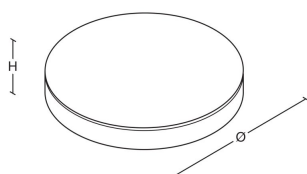
Emergency

Integral 3 hour emergency batteries c/w EMPRO Inverter

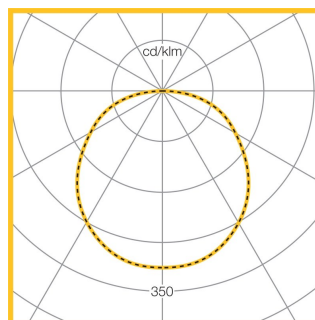
Finish

White RAL 9003

## Dimensions & Weight



## Polar Curve (Indicative Only)



| H   | KG  | KG(EM) | Ø   |
|-----|-----|--------|-----|
| 117 | 2.3 | 3.6    | 367 |