

## 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-0007                   |
| <b>Document Title:</b>         | Type F1 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     |
| C01             | 05/12/17    | 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"> <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:   | <div> <div> 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 </div> <div> 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 </div> <div> 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 </div> </div> |  |  |
| 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  |                    |
|---|--------------------|
| <div>Technical Submission fully compliant</div> <div>If no then proposed deviations are:</div> <div><div>Y</div><div></div></div> |                    |
| 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 F1

**General Description**


Recessed linear LED lighting system for continuous application

**General Appearance**



Corner unit

**Photometric Performance**

Recessed Stand alone

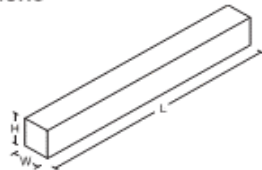
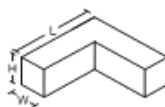


Hexaprim optic  
15W LED  
1147 lumens  
• LOR = 100%  
• SHR MAX = 1.47

**Utilisation Factors UF(F)**

| Room Reflectance | Room Index |      |      |      |
|------------------|------------|------|------|------|
| C                | W          | F    | 1.00 | 3.00 |
| 0.70             | 0.50       | 0.20 | 0.78 | 1.01 |
|                  |            |      | 1.06 |      |

**Dimensions**

| Version (inc. body, light engine and diffuser) | L    | W  | H  | KG  | KG  |
|--|------|----|----|-----|-----|
| Continuous, 0.6m                               | 575  | 95 | 82 | 3.0 | -   |
| Continuous, 1.2m                               | 1135 | 95 | 82 | 4.0 | 5.5 |
| Stand alone, 1.2m*                             | 1145 | 95 | 82 | 4.0 | 5.5 |
| Corner   | 340  | 95 | 82 | 3.2 | -   |

**Luminaire**

Manufacturer  
Manufacturing standard  
Catalogue number  
Finish  
EMC

|                         |
|-------------------------|
| Whitecroft              |
| BS EN 60598             |
| Avenue - AV41YL + AV4DA |
| -                       |
| BS EN 55015             |

**Light Source**

|               |                   |
|---------------|-------------------|
| Type          | LED               |
| Wattage       | 15W               |
| Designation   | 1300lm            |
| Colour / Beam | 4000K - Ra min 80 |

**Control Gear / Transformer**

Type  
Dimmable  
Location (Remote/Integral)

|                  |
|------------------|
| DALI 220-240 Vac |
| Yes              |
| Integral         |

**Accessories**

|        |      |
|--------|------|
| Lens   | Opal |
| Baffle | -    |
| Other  | IP44 |

**Location**

|          |
|----------|
| C/E Room |
|----------|

Equipment supplied to be as specified or equal approved

**Additional Information**

- All products to have a wipeable smooth clean surface. No screw heads or slots will be allowed.
- It shall be a continuous lighting and corners available.
- 
-

## 2) Catalogue Details

Please refer to next page

# Avenue Metro Recessed for ceiling type A1 plasterboard



Project reference:  
F1

Part number:  
AOARYA14KW  
AORENDCW  
AOCMOKIT

## Product description:

IP44 linear LED system with a modern minimalist aesthetic for continuous or stand alone applications. TP(a) Opal diffuser for general, circulation and feature areas. Create long lines and angles of light with a seamless aesthetic – as Whitecroft Lighting AVENUE METRO RECESSED

\*\* Note that Avenue Metro is the next generation of the original Avenue LED with improved efficacy, slimmer trim, reduced installation time and complexity \*\*



## Light source

Light source:  
LED, 1550 lumens output

Colour render index:  
>80

Control gear:  
Integral DALI dimmable driver

Colour temperature:  
4000K

Colour consistency:  
MacAdam 3 SDCM

Integral control:  
N/A

## Luminaire performance

LL/CW:  
119

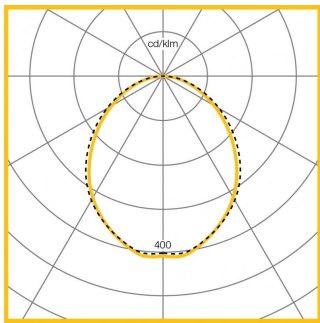
Light output ratio:  
100%

Emergency  
N/A

Circuit watts:  
13W

Finish  
White RAL 9003

## Polar Curve (Indicative Only)



| VERSION | L    | W  | H  | KG  | KG(EM) |
|---------|------|----|----|-----|--------|
| 1.25m   | 1250 | 95 | 83 | 4.5 | 5.0    |
| End Cap | 18†  | 80 | 95 | -   | -      |