

## 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-0008
<b>Document Title:</b>	Type H1, H2, H3 Luminaires
<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>
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Version History			
Revision No.	Date Issued	Prepared By	Status
P01	06/09/17	Tony McMeiken	For Approval
P02	24/10/17	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"> <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 P5-DES-001-00-DR-E-1004 P5-DES-001-01-DR-E-1003 P5-DES-001-01-DR-E-1004 P5-DES-001-02-DR-E-1003 P5-DES-001-02-DR-E-1004 P5-DES-001-03-DR-E-1003	P5-DES-001-03-DR-E-1004 P5-DES-001-04-DR-E-1003 P5-DES-001-04-DR-E-1004 P5-DES-001-05-DR-E-1003 P5-DES-001-05-DR-E-1004 P5-DES-001-R6-DR-E-1003 P5-DES-001-R6-DR-E-1004	P5-DES-001-B1-DR-E-1003 P5-DES-001-B1-DR-E-1004 P5-DES-001-B2-DR-E-1003 P5-DES-001-B2-DR-E-1004 P5-DES-001-B3-DR-E-1003 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
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If no then proposed deviations are:

Specification Requirement	Proposed Deviation
Arup specification calls for Viabizzuno Displei DN-50 for H1 type and Viabizzuno Displei DN-35	<p>Dornan propose Whitecroft Concert XL</p> <p>Dornan propose Whitecroft CNXY14K for H1 fittings - required to achieve required LUX levels.</p> <p>Dornan propose Whitecroft LDR65 for H2 fittings - required due to limited ceiling void space.</p> <p>Dornan propose introduced Whitecroft MIRAGE LED SURFACE for H3 fittings - required in the reception area to achieve LUX levels requirements.</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

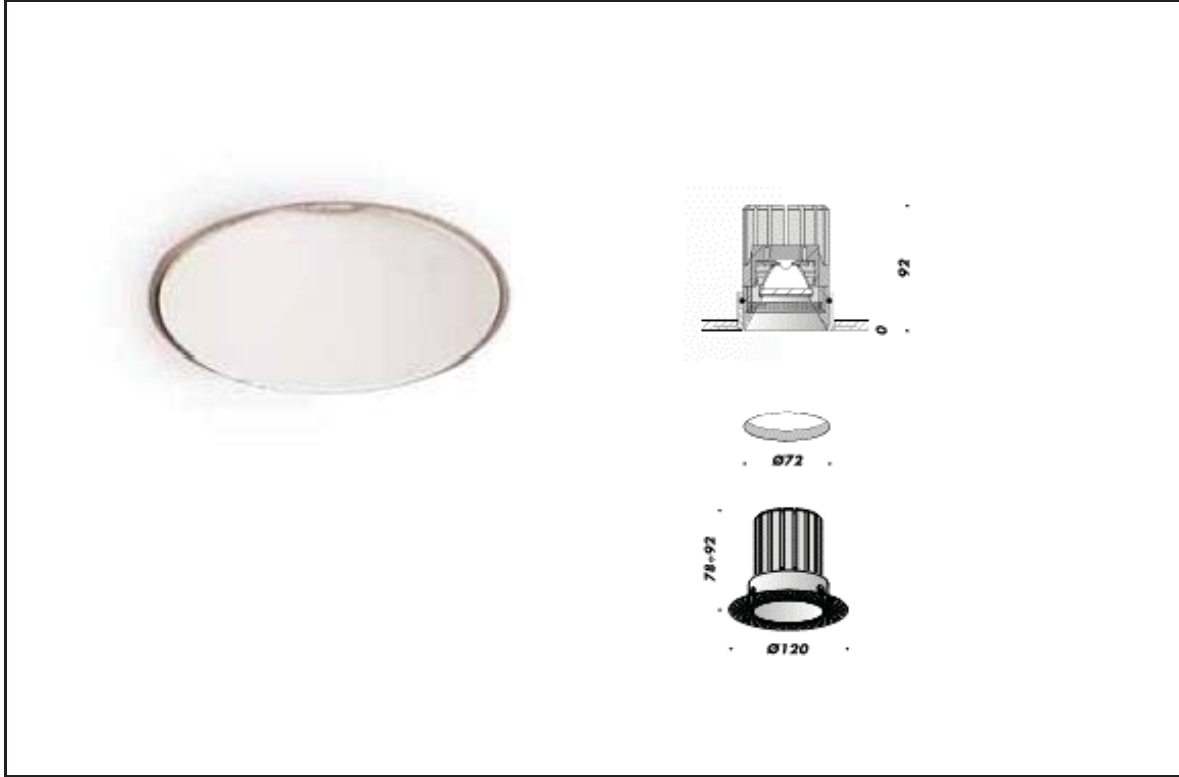
Revision: T01

Luminaire Reference: TYPE H1

**General Description**

Recessed and fully concealed light fitting, designed for ceiling or wall mounted with 36 degree beam angle.

The light fitting shall be flushed with the ceiling service.

**General Appearance****Luminaire**

Manufacturer	Viabizzuno
Manufacturing standard	EN 60598
Catalogue number	Displei - DN50
Finish	White
EMC	BS EN 55015

**Light Source**

Type	LED
Wattage	12W
Designation	1150lm
Colour / Beam	4000K - Ra min 80

**Control Gear / Transformer**

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

**Accessories**

Lens	Clear Disc
Baffle	-
Other	IP55

**Location**

Lift Lobby / Staff Base
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*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.

4.

Job Title: UCLH Phase 5

Date: 22/01/2015

Job Number: 232426-00

Purpose of Issue: Tender

Revision: T01

Luminaire Reference: TYPE H2

**General Description**

Recessed and fully concealed light fitting, designed for ceiling or wall mounted with 36 degree beam angle.

The light fitting shall be flushed with the ceiling service.

**General Appearance****Luminaire**

Manufacturer	Viabizzuno
Manufacturing standard	EN 60598
Catalogue number	Displei - DN35
Finish	-
EMC	BS EN 55015

**Light Source**

Type	LED
Wattage	4W
Designation	350lm
Colour / Beam	4000K - Ra min 80

**Control Gear / Transformer**

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

**Accessories**

Lens	Clear Disc
Baffle	-
Other	IP55

**Location**

Waiting Area / Circulation / Toilet

*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.

4.

## 2) Catalogue Details

Please refer to next page



# Concert XL



## Project reference:

H1

## Part number:

CNXY14K  
CNX-IP54C

## Product description:

Recessed IP54 LED medium beam downlight with cast aluminium body, white polycarbonate bezel, integral 1250 lumen light engine, clear disc lens and remote driver – as Whitecroft Lighting CONCERT XL



## Light source

### Light source:

LED, 1250 lumen output

### Colour render index:

>80

### Control gear:

Remote DALI dimmable driver

### Colour temperature:

4000K

### Colour consistency:

MacAdam 3 SDCM

### Integral control:

N/A

## Luminaire performance

### LL/CW:

88.03

### Light output ratio:

100.00%

### Emergency

N/A

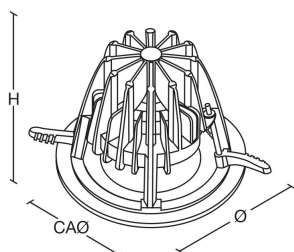
### Circuit watts:

13W

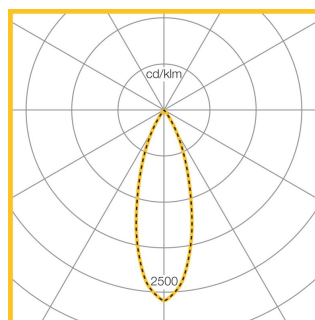
### Finish

White RAL 9010

## Dimensions & Weight



## Polar Curve (Indicative Only)



VERSION	L	W	H	KG	Ø	Cut Aperture
Downlight			99	0.6	130	110
Driver	220	85	31	0.2		

# LDR65



Project reference:

H2

Part number:

LDR65Y4KW

## Product description:

Shallow 60mm depth recessed LED downlight with cast aluminium body and heatsink. Multi-faceted anodised aluminium reflector with 51 degree beam angle and clear glass front – as Whitecroft Lighting LDR65.



## Light source

Light source:

LED, 650 lumen

Colour render index:

>80

Control gear:

Remote DALI Driver

Colour temperature:

4000K

Colour consistency:

MacAdam 3 SDCM

Integral control:

N/A

## Luminaire performance

LL/CW:

73.22

Light output ratio:

100%

Emergency

N/A

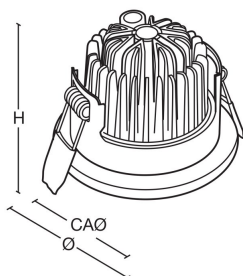
Circuit watts:

9W

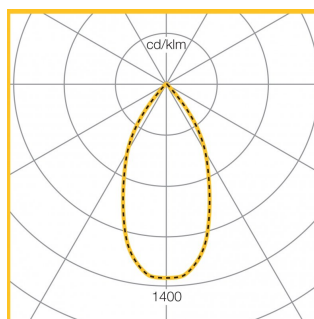
Finish

White RAL 9003

## Dimensions & Weight



## Polar Curve (Indicative Only)



H	KG	Ø	CAØ
60	0.4	85	73

# Mirage LED Surface



## Project reference:

H3 and H3E

## Part number:

MBSY24K27W  
MBSY24K27WEP

## Product description:

IP20 circular surface mounted downlight with a cast aluminium body, specular reflector and integral driver. Clean aesthetic with no visible body fixings, simple slide and click installation - as Whitecroft Lighting MIRAGE LED SURFACE.



## Light source

### Light source:

LED, 2000 lumen 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:

105

### Light output ratio:

100%

### Emergency

3 hour emergency battery pack and EMPRO inverter

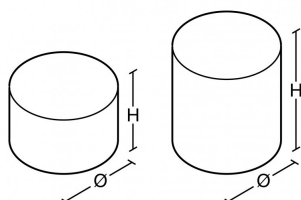
### Circuit watts:

18W

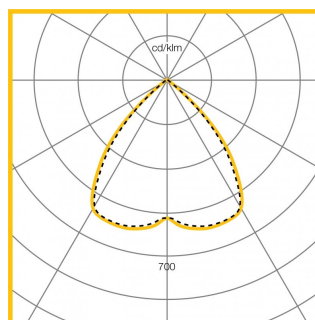
### Finish

White

## Dimensions & Weight



## Polar Curve (Indicative Only)



VERSION	Ø	H	KG	KG(EM)
270mm Body	178	278	1.8	2.2