

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-0015
Document Title:	Type P1 and P2 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	04/12/17	Tony McMeiken	For Approval

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:	P5-ARP-Z0-00-DR-E-7001 P5-ARP-Z0-00-DR-E-7002 P5-ARP-Z0-01-DR-E-7001 P5-ARP-Z0-01-DR-E-7002 P5-ARP-Z0-02-DR-E-7001 P5-ARP-Z0-02-DR-E-7002 P5-ARP-Z0-03-DR-E-7001	P5-ARP-Z0-03-DR-E-7002 P5-ARP-Z0-04-DR-E-7001 P5-ARP-Z0-04-DR-E-7002 P5-ARP-Z0-05-DR-E-7001 P5-ARP-Z0-05-DR-E-7002 P5-ARP-Z0-06-DR-E-7001 P5-ARP-Z0-06-DR-E-7002	P5-ARP-Z0-B1-DR-E-7001 P5-ARP-Z0-B1-DR-E-7002 P5-ARP-Z0-B2-DR-E-7001 P5-ARP-Z0-B2-DR-E-7002 P5-ARP-Z0-B3-DR-E-7001 P5-ARP-Z0-B3-DR-E-7002
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

Technical Submission fully compliant

Y	
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If no then proposed deviations are:

Specification Requirement	Proposed Deviation

1. Data Sheets

Please refer to next page

Job Title: UCLH Phase 5

Date: 22/01/2015

Job Number: 232426-00

Purpose of Issue: Tender

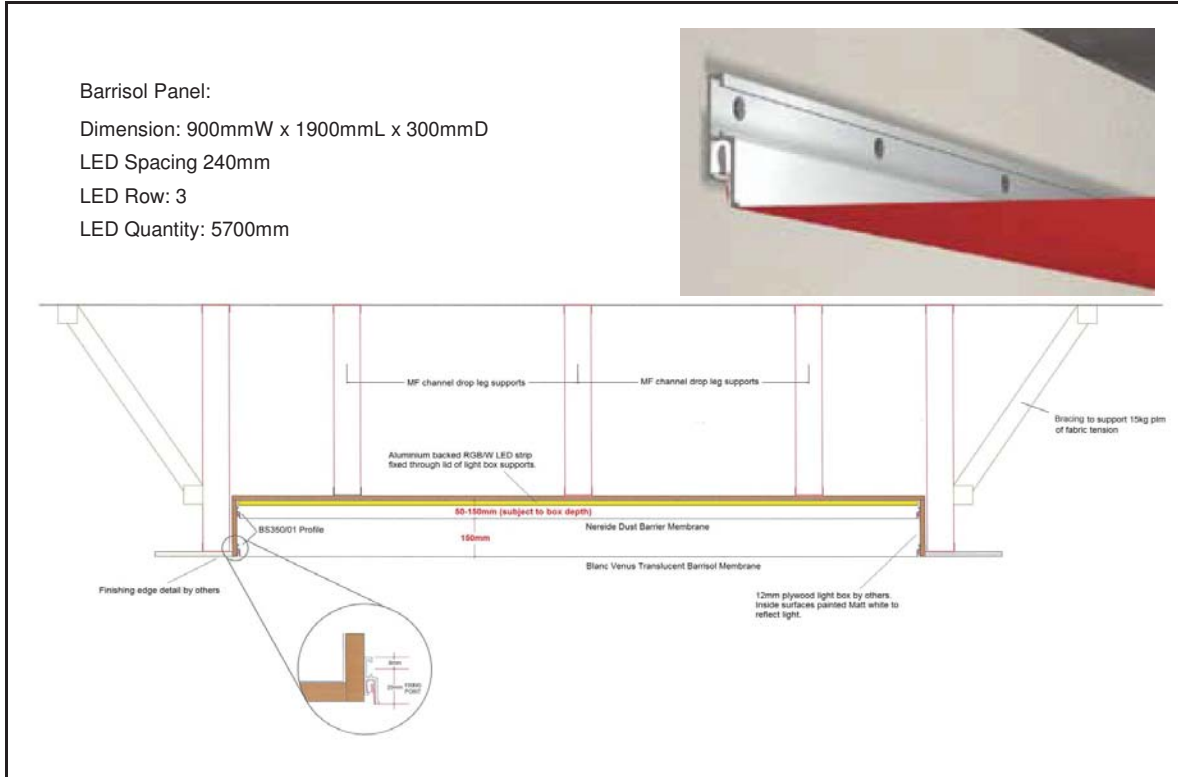
Revision: T01

Luminaire Reference: TYPE P1

General Description

Barrisol Lighting Panel with white LED Flexible strip

General Appearance



Luminaire

Manufacturer	Soltech + Barrisol
Manufacturing standard	BS EN 60598
Catalogue number	-
Finish	-
EMC	BS EN 55015

Light Source

Type	LED
Wattage	-
Designation	-
Colour / Beam	4000K - Ra min 80

Control Gear / Transformer

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

Accessories

Lens	Barrisol
Baffle	-
Other	-

Location

C/E Room / Treatment Room

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. Detail lighting panel specification shall refer to appendix.
3. Acceptance of this light fitting shall be subjected to architect's approval
- 4.

Job Title: UCLH Phase 5

Date: 22/01/2015

Job Number: 232426-00

Purpose of Issue: Tender

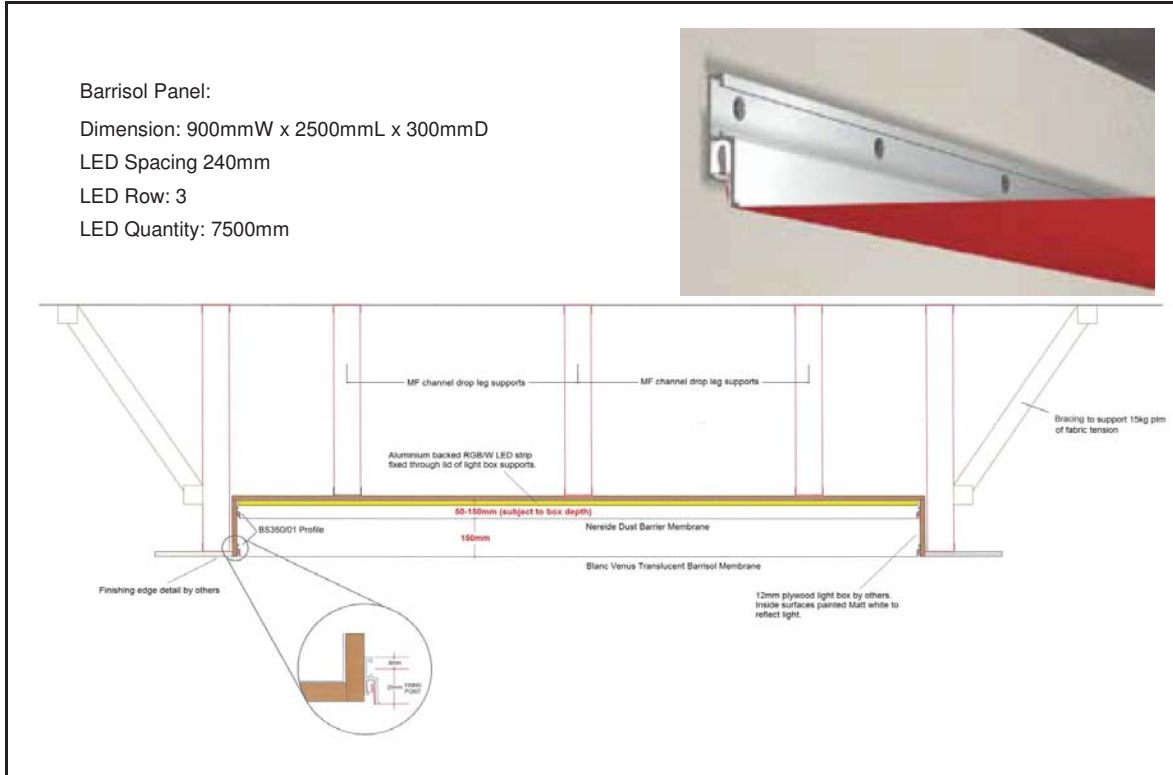
Revision: T01

Luminaire Reference: TYPE P2

General Description

Barrisol Lighting Panel with white LED Flexible strip

General Appearance



Luminaire

Manufacturer	Soltech + Barrisol
Manufacturing standard	BS EN 60598
Catalogue number	-
Finish	-
EMC	BS EN 55015

Light Source

Type	LED
Wattage	-
Designation	-
Colour / Beam	4000K - Ra min 80

Control Gear / Transformer

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

Accessories

Lens	Barrisol
Baffle	-
Other	-

Location

C/E Room / Treatment Room

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. Detail lighting panel specification shall refer to appendix.
3. Acceptance of this light fitting shall be subjected to architect's approval
- 4.

2. Catalogue Details

Please refer to next page

RÉF. **BS350/01**

POIDS kg/ml **0,235** COND. **4,5 ml**

Lisse aluminium BARRISOL® STAR®

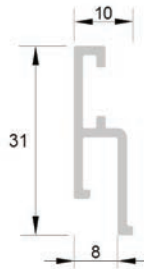
aluminium rail BARRISOL® STAR®

BARRISOL® STAR® Aluminiumleiste

Perfil de aluminio BARRISOL® STAR®

Profilo BARRISOL® STAR® in alluminio

Perfil de aluminio BARRISOL® STAR®





LSC45

Current regulated self-adhesive high output LED flexible splashproof strip

- BESPOKE**
Bespoke length cutting service available
- IP44**
Splashproof
- 3 yr**
3 year guarantee
- W**
Also available in RGB & RGBW

- 150°
- 14.4W
- 32°C
- 10g/m
- 2
- 70,000h
- 3SDCM

PHOTOMETRICS @ 23°C					
Colour	Beam angle	CRI	lm	lm/W	lx @ 1m
● 4000K	150°	>85Ra	965	67	267
● 3000K	150°	>85Ra	810	56	237
● 2700K	150°	>85Ra	810	56	237

REEL ORDER CODES	
LSC4540050	5m reel of 4000K LSC45 strip
LSC4530050	5m reel of 3000K LSC45 strip
LSC4527050	5m reel of 2700K LSC45 strip
For bespoke length, 050 to be replaced by required length. eg. 010 = 1m, 021 = 2.1m, etc	

GENERAL	
Construction material	Flexible tape

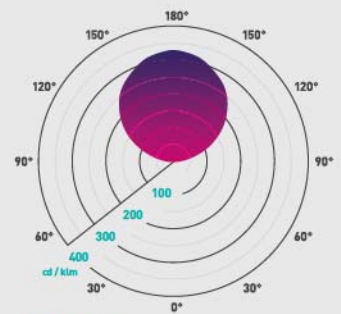
WIRING	
Cable/flying lead	0.25m (bespoke lengths up to 5m are available on request at an extra charge)
Type of wiring required	Parallel

LED DRIVERS					
Product code	mA	SELV	Dimming	Bathroom zone	Max
PS5024	-	Yes	Yes (PDCINT1-10V)	-	3m
PSDIP10024	-	Yes	Yes	-	5m
PSIP24024	-	Yes	Yes (PDCINT1-10V)	-	3x5m

ACCESSORIES	
Product code	Description
LED STRIP PROFILE RANGE	Profile range to house adhesive strip
PDC/GRID DIMMER	Grid dimmer kit for multiple fitting types

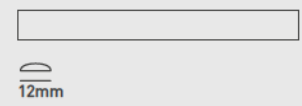
FEATURES & BENEFITS

- › Hardwearing clear splashproof covering
- › High output LED strip using next generation current regulation technology
- › Long lengths suffer no light loss
- › Cut point every 100mm
- › Bespoke lengths are sealed with heat shrink for complete IP44 connections
- › Foil backed flexible PCB dissipates heat (improves LED life and colour stability)
- › 3M self-adhesive backing
- › Supplied in customised lengths (0.1m up to 4.9m in 0.1m increments)
- › NB: Cutting to required length will render this product non-returnable



4000k 150°

5m (cut point every 100mm)



This luminaire contains built-in LED lamps.

LED

The lamps cannot be changed in the luminaire.

874/2012



PSDAL20024

200W DALI DIMMABLE 24V LED DRIVER

Features & Benefits

- DALI dimmable 24V LED driver
- IP66 for indoor & outdoor environments

PRODUCT DATA

Product Code	PSDAL20024
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ELECTRICAL CHARACTERISTICS

Rated wattage	INPUT		OUTPUT		Power factor
	Current	Voltage	Current	Voltage	
200W	1A	220-240V	8.33A MAX	24V	0.98

GENERAL

Ambient temp (ta = °C)	-25 to +60
Case temp (tc = °C)	70
Control	DALI dimmable
Double insulation	Yes
Efficiency (%)	>85
Inrush current	65A
IP rating	66
Loop in / Loop out	No
Protection	Mains surge, short circuit, over-load & over heating (auto recovery)
SELV (separated extra low voltage)	Yes
Weight (Kg)	1.8

WIRING

Connection output	Flying leads
Input cable (m)	Mains input: 0.3m, 1mm ² 2 core cable (outside diameter: 7mm) DALI input: 0.3m, 0.75mm ² 2 core cable (outside diameter: 6.5mm)
Output cable (m)	LED output: 0.3m, 1.5mm ² 2 core cable (outside diameter: 8.5mm)

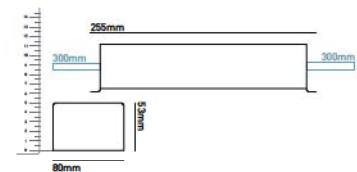
ACCESSORIES

Product code	Description
N/A	There are currently no accessories associated with this product

WARRANTY

3 years

Dimensions



Les translucides®



Architecte : Wacław Matlok & Magdalena Dendewicz-Matlok



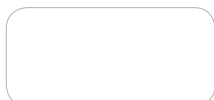
Architecte : Burdifikle - Bell Store Yorkdale (Toronto)



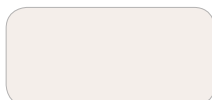
Architecte : Parq Arquitectos



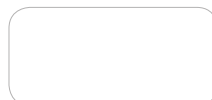
04072 Planète Bleue***⁽²⁾



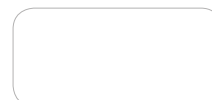
04011 Blanc Vénus***⁽²⁾



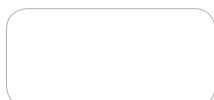
04013 Clair de Lune**⁽²⁾



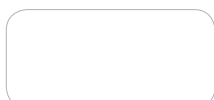
04014 Calisto Translucide****⁽²⁾



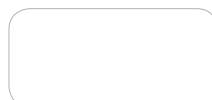
04015 Mercure****⁽²⁾



04016 Sedna****⁽²⁾



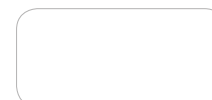
04025 Aurore Boréale**⁽²⁾



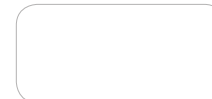
04030 Athena****⁽¹⁾



04018 Plutonia****⁽²⁾

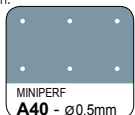
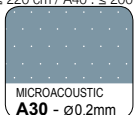
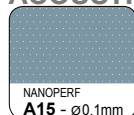


04010 Néréide*⁽²⁾

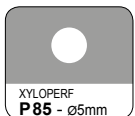
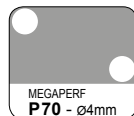


04080 Polaris*⁽¹⁾

ACOUSTICS® A15 - A20 - A30 : ≤ 220 cm / A40 : ≤ 200 cm.



PERFORATIONS - PERFORATIONS - PERFORATIONEN PERFORAZIONE - PERFORACIÓN



Taux de transmission et de réflexion de la lumière - Light transmission and reflexion rate Lichtverbreitungsgrad und Lichtreflexionsgrad - Tasso di trasmissione e riflessione della luce Porcentaje de transmisión y reflexión de la luz

	Transmission - Transmission - Verbreitung Trasmisione - Trasmisión	Réflexion - Reflexion - Reflexion Riflessione - Reflexión
Norme - Norm - Norm - Normativa - Normativa : ASTM E903 - NF EN 410		
04072 Planète Bleue	11%	17%
04011 Blanc Vénus	46%	56%
04013 Clair de Lune	50%	46%
04025 Aurore Boréale	32%	61%
04018 Plutonia	44%	51%
04010 Nereide	90%	10%
04030 Athéna	48%	48%
04080 Polaris	77%	21%

Classement au feu - Fire classification - Brandverhalten - Classe di reazione al fuoco - Clasificación al fuego

⁽¹⁾ B-s1, d0 | ⁽²⁾ B-s2, d0

Largeur des lés - Sheet width - Folienbreite - Larghezza dei teli - Ancho de tela

A noter : des soudures sont possibles dans les plafonds en fonction des dimensions et configurations de projets - Please note : seams are possible on the ceilings depending on the projects dimensions and configuration. - Bemerkung: Nähte in der Spanndecke sind je nach Abmessungen und Projektanforderung möglich. - NB: Sarà possibile la presenza di saldature sui controsoffitti in base alla geometria e dimensioni dei teli e alle caratteristiche dei progetti. - A tener en cuenta : las soldaduras son posibles en función de las dimensiones o configuraciones de los proyectos.

*150 cm	**162 cm	***214 cm	****235 cm	*****256 cm
◄► 140 cm	◄► 150 cm	◄► 200 cm	◄► 220 cm	◄► 240 cm

Epaisseur - Thickness - Dicke - Spessore - Espesor

17 - 30 / 100



Le pourcentage de tension appliqué à la toile peut varier de 3 à 10% selon les contraintes liées à chaque projet - The percentage of tension applied to the sheet can vary from 3 to 10% depending on the constraints of each project - Die auf die Folie angebrachte Spannung kann von 3 bis 10% je nach den Projektbeschränkungen variieren - La percentuale di tensione applicata al telo può essere variabile dal 3 al 10% secondo le esigenze legate ad ogni progetto - El porcentaje de tensión aplicado a la tela puede variar entre el 3 y el 10% según las especificaciones técnicas a cada proyecto.

Les couleurs imprimées peuvent présenter un léger écart avec la réalité, notre carte d'échantillons est à votre disposition pour plus de précisions. - Printed colors may present a slight variation with the reality, our sample booklet is available for more precision. - Die gedruckten Farben können in der Realität von der Darstellung abweichen; eine Broschüre mit Muster ist für genauere Abgleiche erhältlich - I colori riportati nella presente stampa possono presentare una leggera differenza dal materiale reale, la nostra campionario è a vostra disposizione per facilitare la vostra scelta - Dado que estos colores fueron impresos puede existir una diferencia con la realidad, por eso nuestra carta con muestras está a su dispuesta para una mayor precisión.

En fonction de l'intensité de l'exposition au rayonnement solaire, de la composition de l'atmosphère de la pièce (fumée...), la teinte peut légèrement varier dans le temps. Depending on the intensity of the solar radiance exposition and the atmosphere composition (smoke...) of the room, the shade of the sheet may vary in the time. Abhängig von der Sonneneinstrahlung und der Luftzusammensetzung im Raum (Rauch...) kann sich das Erscheinungsbild der Folien zeitlich ändern. In funzione dell'intensità dell'esposizione ai raggi del sole e della composizione dell'atmosfera (fumo...) della stanza, la tinta del telo può leggermente variare col tempo. Según la intensidad de la exposición a la radiación solar, de la composición de la atmósfera de la habitación (humo...) y el tinte puede variar con el tiempo.