FIRE RESISTANT CABLES

The white option cable would be used and it would be painted to match the surface to which it was clipped

FP200 GOLD®
BS7629-1:2008

Certificate No 077f
Certificate No 077k

FP200 GOLD®

> The original highly durable and dressable, easy to terminate and install fire resistant cable, using the unique Insudite™ damage resistant insulation system. Approved for fire detection and fire alarm critical signal paths to BS5839-1:2002+A2:2008 and voice alarm systems to BS5839-8:2008 in 'standard' application areas, and emergency lighting systems to BS5266-1:2005.

The changes to cable test methods and requirements first introduced by BS5839-1:2002+A2:2008 "Fire detection and fire alarm systems for buildings - Part 1: Code of practice for system design, installation, commissioning and maintenance" mean that fire resistant cables must now be approved against new test requirements.

APPROVALS

> In addition to approvals to BS7629-1 and BS6387 Category CWZ, FP200 Gold® has received BASEC and LPCB approval to BS5839-1:2002 for 'standard' applications. This includes approval to BS EN 50200 Class PH30 and the new integrated fire, shock and water test BS8434-1 for 30 minutes. FP200 Gold® is also approved to BS EN 50200 Class PH60 as required by BS5266-1:2005.

All Prysmian FP200Gold® cables are manufactured under an ISO 9001 Quality System certified by BASEC and LPCB.

DATA CAPABILITY

> FP200 Gold® has excellent data/signal transmission characteristics making it ideal for voice alarm, addressable and networked systems.

INSTALLATION

> In accordance with BS5839-1 and BS5266-1 requirements, cables must be supported by a fixing that can withstand the same fire conditions as the cable. To meet this requirement the use of Prysmian AP LSOH® coated metal P-clips or the new FP Firefix™ rapid fixing system is recommended.

FP200Gold should be installed in accordance with BS7671/IEE Wiring Regulations and/or any other appropriate national regulations or codes. It is suitable for indoor and outdoor installation in suitably protected environments and particularly appropriate for surface wiring, direct burial in plaster, tray or other installations requiring a dressable product.

CABLE CHARACTERISTICS

Temperature Range −20 to +70°C	Bending Radius Fixed r=6D	Mechanical Impact Medium	Fire Performance BS EN 60332-1-2 BS EN 50266-2-4	Flexibilty Rigid	Halogen Free BS EN 50267-2-1	Low Smoke Emissions BS EN 61034-2	Fire Resistance BS6387 Category CWZ BS EN 50200 PH30 & PH60[3] BS EN 50200 Annex E

PRYSMIAN
CABLES & SYSTEMS

FIRE RESISTANT CABLES 300/500V

KEY APPLICATIONS

> Fire detection and fire alarm systems for buildings
> Voice alarm systems
> Emergency lighting
> Other essential service circuits

CABLE DESCRIPTION

CONDUCTOR

Plain annealed copper solid (1.0 – 2.5 mm^2) or stranded (4.0 mm^2) circular conductor complying with BS EN 60228 class 1 or class 2.

INSULATION

High performance damage resistant Insudite™.
British Standard Type EI5.

CORE IDENTIFICATION

HARMONISED CORE IDENTIFICATION:
o o brown–blue | o o o brown–black–grey
o o o o blue–brown–black–grey

NON HARMONISED CORE IDENTIFICATION:
o o red–black | o o o red–yellow–blue
o o o o black–red–yellow–blue
Non harmonised colours to special order.

SCREEN/CPC

Laminated aluminium tape screen bonded to sheath and in contact with full size tinned annealed copper circuit protective conductor which provides automatic screen earthing.

SHEATH

Robust thermoplastic LSOH sheath; Colour – White or Red. Other colours to special order. For external exposure the use of a white sheath is recommended.

Nominal cross sectional area mm^2	Conceptual Construction no./mm	Mean overall diameter mm	Approximate cable weight kg/km	Maximum conductor resistance at 20°C ohms/km	Current rating DC or single phase AC Enclosed Amps	Current rating DC or single phase AC Clipped direct Amps	Volt drop DC or single phase AC mV/A/m	Recommended accessories Colour – White or Red		
								[1] LSOH® fixing clips	[2] Nylon LSOH® gland	FP Firefix™ fixing clips
Two core										
1.0[3]	1/1.13	8.0	78	18.1	13	15	44	AP7	251/GL2520	UFPNF02
1.5	1/1.38	8.1	93	12.1	16.5	19.5	29	AP7	251/GL2520	UFPNF01* UFPNF02
2.5	1/1.78	9.5	140	7.4	23	27	18	AP9	251/GL2520	–
4.0	7/0.85	11.6	195	4.6	30	36	11	AP11	252/GL2520	–
Three core										
1.0[3]	1/1.13	8.2	88	18.1	13	15	44	AP7	251/GL2520	UFPNF02
1.5	1/1.38	8.4	116	12.1	16.5	19.5	29	AP8	251/GL2520	UFPNF04
2.5	1/1.78	10.4	180	7.4	23	27	18	AP10	252/GL2520	–
4.0	7/0.85	12.3	248	4.6	30	36	11	AP12	252	–
Four Core										
1.0[3]	1/1.13	8.5	107	18.1	13	15	44	AP8	251/GL2520	UFPNF04
1.5	1/1.38	10	143	12.1	16.5	19.5	29	AP9	251/GL2520	–
2.5	1/1.78	11.9	225	7.4	23	27	18	AP11	252/GL2520	–
4.0	7/0.85	13.5	310	4.6	30	36	11	AP13	254	

Notes to table

* Single clip

1 Recommended clip spacing 300 mm horizontal and 400mm vertical.   2 Brass glands may be used as an alternative.
3 BS5266-1:2005 clause 9.2.3 states a minimum cross-sectional area of conductor of 1.5mm^2

FP200 Gold® is also available in multi-core versions (7,12 & 19 core)
Minimum recommended installation temperature 0°C. Installation methods for current rating in accordance with BS7671/IEE Wiring Regulations. The tabulated ratings are based upon a 30°C ambient temperature and 70°C operating temperature. For other ambient temperatures or where cables are grouped together, appropriate rating factors should be applied.

Temperature ratings factor

Ambient Temperature°C	25	30	35	40	45	50
Rating factor	1.03	1.00	0.94	0.87	0.79	0.71

Rating Factors for Groupings

Number of circuits	2	3	4	5	6	7
Rating factor	0.80	0.70	0.65	0.60	0.57	0.54

PRYSMIAN
CABLES & SYSTEMS

Energi Savr Node QS™

A versatile, energy saving lighting control solution that is easy to install and easy to expand

☀ LUTRON®

save energy with Lutron™

WHAT IS ENERGI SAVR NODE QS™?

Energi Savr Node QS is a simple, programmable solution for controlling light and saving energy in any commercial space. Use Energi Savr Node QS to connect DALI (digitally addressable lighting interface), 0-10 V or switching ballasts to wired or wireless occupancy sensors, daylight sensors, and controls for total light control.

Photography © Nic Lehoux   Photography © Nic Lehoux

WHAT ARE THE BENEFITS?

EASY TO INSTALL AND MAINTAIN

• Easy and intuitive system programming application designed for the Apple iPhone or iPod touch mobile digital devices [1]
• For simple applications, preconfigured modes reduce installation time and eliminate system programming
• Automatic ballast replacement eliminates the need for system reprogramming when replacing ballasts (feature available only on DALI version)
• Wireless sensors and controls can be easily retrofit with no need for rewiring

EXPANDABLE

• Control a single space, up to an entire floor with one module and add additional Energi Savr Node QS modules to control multiple floors
• Modules can link with Quantum® for total light management throughout an entire building

VERSATILE

• DALI ballast control offers flexibility for reconfiguring frequently changing spaces (feature available only on DALI version)
• Great for retrofit solutions or new construction – install each module locally – no need to connect to a central panel

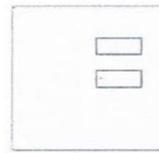### ENERGY-SAVING AND ENVIRONMENTALLY FRIENDLY

• Reduce lighting energy use with dimming, occupancy sensing, and daylight harvesting

Data Sheet 3

product specifications   369607e

Wired International seeTouch® Keypads
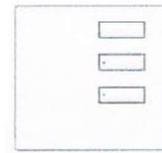## Insert Style

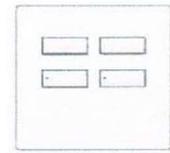## Model Numbers

Base Units

|	
HQWIS-NB-NONE	Keypad without Wallplate /Button Kit
HQWIS-NBIR-NONE	IR Keypad without Wallplate/Button Kit

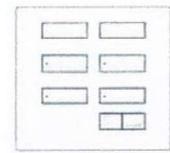HWIS-2B-I-XX*   HWIS-3B-I-XX*   HWIS-4B-I-XX*

Button/Wallplate Kits

|	
HWIS-2B-I-XX*	2 button
HWIS-3B-I-XX*	3 button
HWIS-4B-I-XX*	4 button
HWIS-5BRL-I-XX*	5 button with Raise/Lower
HWIS-5BIR-I-XX*	5 button with Raise/Lower and IR
HWIS-6BRL-I-XX*	6 button with Raise/Lower
HWIS-7BRL-I-XX*	7 button with Raise/Lower
HWIS-8BRL-I-XX*	8 button with Raise/Lower
HWIS-8BIR-I-XX*	8 button with Raise/Lower and IR
HWIS-10BRL-I-XX*	10 button with Raise/Lower
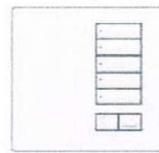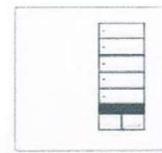
HWIS-5BRL-I-XX*   HWIS-5BIR-I-XX*   HWIS-6BRL-I-XX*
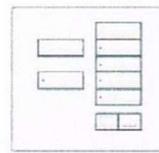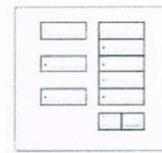
HWIS-7BRL-I-XX*   HWIS-8BRL-I-XX*   HWIS-8BIR-I-XX*
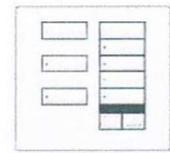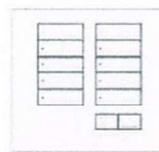
Replacement Button Kits

SIB-2B-XX*-E	2 button
SIB-3B-XX*-E	3 button
SIB-4B-XX*-E	4 button
SIB-5BRL-XX*-E	5 button with Raise/Lower
SIB-5BIR-XX*-E	5 button with Raise/Lower and IR
SIB-6BRL-XX*-E	6 button with Raise/Lower
SIB-7BRL-XX*-E	7 button with Raise/Lower
SIB-8BRL-XX*-E	8 button with Raise/Lower
SIB-8BIR-XX*-E	8 button with Raise/Lower and IR
SIB-10BRL-XX*-E	10 button with Raise/Lower

HWIS-10BRL-I-XX*

Ordering Example:

HQWIS-NB-NONE (Base Unit) and
HWIS-2B-I-AW (Wallplate/Button Kit)

*"XX" in the model number represents color/finish code.
See **Colors and Finishes** at end of document.

www.lutron.com   2   Technical Support: 800.523.9466 (USA)
+44.(0)20.7702.0657 (Europe)

CU 14way Main Switch T2 SPD Square KOs

CU 14way Main Switch T2 SPD Square KOs

PRO-S14W-R1S

TECHNICAL DATA	
Rated operating voltage	230V AC
IP Protection degree	IP2XC
Manufacturing material	Steel
Phase	1
Execution	Wall mounting
Dimensions (HWD)	268x353x109
Usable Ways	14
Modules Number	17
Rated current	100A
Colour	White RAL 9003

REGISTRY	
Net weight	3.74KG
Min order quantity	1
EAN Code	5026992001189
Gross Weight	4.00KG

REFERENCE STANDARDS	STANDARDS
BS EN 60947-3	
BS EN 61643-11	
BS EN 61439-3	

Data Sheet 5

Height of Can – 150mm
Diameter of Can – 90mm
Wattage – 10 watts
Output – 1500 Lm
Colour output – 3000k
Control Gear – Dali Dimmable

START Flex IP20 830 10750lm

Item No: 0068114

Data Sheet 6

SYLVANIA

PRO

5 metre IP20 LED reel with pre-attached 3M adhesive type; equipped with 420 LEDs; 10750lm per 5m (2150lm per 1m); 24V; 3000K; CRI80; SDCM ≤3. Needs to be used with any aluminium profile for cooling LED chips purpose and therefore assuring longer lifetime (Profile HO Surface 16 0022604 can be used) ;Compatible with emergency packs: 0046600, 0046601

Technical Assets

Dimensions (mm)

Photometrics

START Flex IP20 830 10750lm

Item No: 0068114

SYLVANIA

General data

Product name	START Flex IP20 830 10750lm
Technology	LED
Mount	Other
General application	Hospitality, Retail
Operating temperature range (°C)	-20°C...+40°C
Performance ambient temperature Tq (°C)	25
ETIM Class	EC002706
E-number FI	4276900
Warranty	5 years

Optical data

Useful luminous flux (Φuse)	10750
Fixture luminous flux (lm)	10750
Luminaire efficacy (lm/W)	130
Correlated colour temperature (k)	3000
CRI (Ra)	80
Colour Variation Initial (SDCM)	SDCM3
Beam Angle (°)	120
Photobiological Risk Group	RG1

Electrical data

Power consumption (W)	82.5
Total power consumption (W)	82.5
Primary Supply/Product voltage - min (V)	24
Primary Supply/Product voltage - max (V)	24
Electrical protection	Class III
Control gear required	Yes
Dimmable	Yes
Dimming method	Other
Drive current (mA)	3438
Lamp Energy Label (class)	E

Lifetime data

Lifespan L70 B50	54000
Lifespan L70 B10	54000
Lifespan L80 B10	50000
Lifespan L90 B10	44000

Physical data

IP rating	IP20
IK rating	IK00
Nominal Product Length (mm)	5000
Nominal Product Width (mm)	10
Nominal Product Height (mm)	1.2
Weight (kg)	0.1

Packaging

Product EAN number	5410288681146
Packaging single length / height (cm)	23.5
Packaging single width (cm)	22.5
Packaging single depth (cm)	3.0
DUN14 (inner)	15410288681143
Units per outer package	20
Packaging outer length / height (cm)	49.0
Packaging outer width (cm)	34.0
Packaging outer depth (cm)	24.0

Safety data

Glow Wire Test (°C)	650
Optimal operating condition (°C)	-20-40

Profile shallow narrow 14 (24x9) 3m SET

Data Sheet 7

Item No: 0022682

SYLVANIA
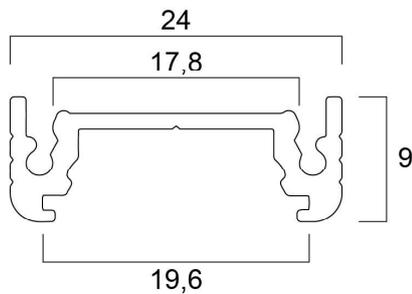
PRO

CE | IK 00 | UKCA | IP 00

The Profile shallow narrow 14 SET consists of 3m anodised profile , opal diffuser, 2 end caps and 4 holders

Technical Assets

Dimensions (mm)

24
17,8
9
19,6

Photometrics

Profile shallow narrow 14 (24x9) 3m SET

Item No: 0022682

General data

Product name	Profile shallow narrow 14 (24x9) 3m SET
Technology	Non - Electrical Device
Accessory type	Mounting, Decorative
Type of accessory	Installation set
Housing	Aluminium
General application	Hospitality, Retail
Operating temperature range (°C)	25°C...+0°C
ETIM Class	EC002557
E-number FI	4278561
Warranty	3 years

Optical data

Photobiological Risk Group	Not applicable

Physical data

Housing colour	Silver
IP rating	IP00
IK rating	IK00
Diffuser finish	Opal
Nominal Product Length (mm)	3000
Nominal Product Width (mm)	24
Nominal Product Height (mm)	9
Weight (kg)	0.46

Packaging

Product EAN number	5410288226828
Packaging single length / height (cm)	300.0
Packaging single width (cm)	1.5
Packaging single depth (cm)	2.0
DUN14 (inner)	15410288226825
Units per outer package	70
Packaging outer length / height (cm)	305.0
Packaging outer width (cm)	16.0
Packaging outer depth (cm)	16.0

Range Name:	Prospot
Product Type:	Spotlights
Description:	Prospot LED-3500lm-38°-Warm White-Black-Surface Mounting Plate-DALI Dimmable.Supplied with DALI 1 drivers.Check compatibility before purchase
Product Code:	T463538-BL/DD/930

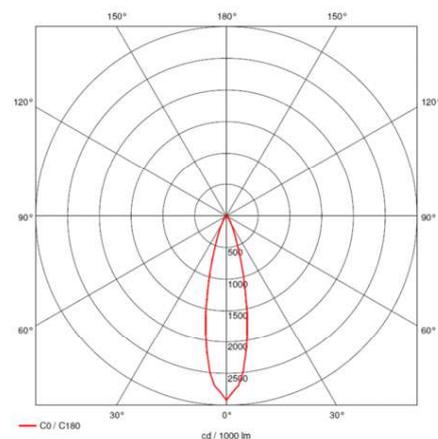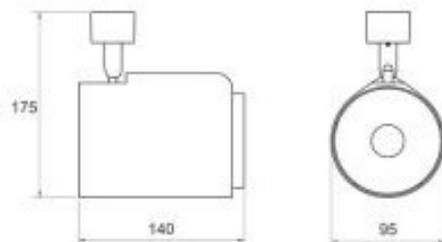|	
Body Colour:	Black
Mounting:	Surface Mounted
Track Adaptor:	Surface - Surface Mounting Plate
Pendant Stem Length(mm):	-
Environment:	Interior
Size(mm)	140 x 95
Cut Out(mm):	-
Recessed Depth(mm):	-
Vertical Tilt(°):	90°
Horizontal Rotation(°):	355°
Light Source:	LED
Lamp Type:	Luminus LED
Lamp Included:	In Built
Lamp Base:	-
Lamp Life(Hours):	50000 hours
Lumen Output(lm):	3600lm
Colour Temperature(k):	3000k Warm White
CRI(Ra):	92
Beam Angle(°):	38°
Lense:	-
Voltage(V):	230VAC
Total System Power(W):	38.2W
Lamp Current(A):	0.169
Power Factor:	-
Luminaire Efficacy(lm/W):	92 lm/W
Class:	Class 1
Gear:	Built In
EAN Code:	-
Dimmability:	DALI Dimmable
Emergency:	-
IP Rating:	IP20
Weight(kg):	1.2kg
Housing Material:	Aluminium
Material Finish:	Powder Coated

Images, line drawings and measurements illustrated may, in some cases be approximate and for guidance only. Colour finishes will be maintained as accurately as possible but matching cannot be guaranteed.
Illuma Lighting are continually developing and improving its products. Technical specifications subject to change without prior notice.
For full terms and conditions visit: https://www.illuma.co.uk/terms.htm

illuma

Technical Data Sheet

Range Name:	Prospot
Product Type:	Spotlights
Description:	Prospot LED-2500lm-24°-Warm White-White-Surface Mounting Plate-DALI Dimmable.Supplied with DALI 1 drivers.Check compatibility before purchase
Product Code:	T462524-WH/DD/930

Body Colour:	White
Mounting:	Surface Mounted
Track Adaptor:	Surface - Surface Mounting Plate
Pendant Stem Length(mm):	-
Environment:	Interior
Size(mm)	140 x 95
Cut Out(mm):	-
Recessed Depth(mm):	-
Vertical Tilt(°):	90°
Horizontal Rotation(°):	355°
Light Source:	LED
Lamp Type:	Luminus LED
Lamp Included:	In Built
Lamp Base:	-
Lamp Life(Hours):	50000 hours
Lumen Output(lm):	3100lm
Colour Temperature(k):	3000k Warm White
CRI(Ra):	92
Beam Angle(°):	24°
Lense:	-
Voltage(V):	230VAC
Total System Power(W):	33.1W
Lamp Current(A):	0.144
Power Factor:	-
Luminaire Efficacy(lm/W):	76 lm/W
Class:	Class 1
Gear:	Built In
EAN Code:	-
Dimmability:	DALI Dimmable
Emergency:	-
IP Rating:	IP20
Weight(kg):	1.1kg
Housing Material:	Aluminium
Material Finish:	Powder Coated

Images, line drawings and measurements illustrated may, in some cases be approximate and for guidance only. Colour finishes will be maintained as accurately as possible but matching cannot be guaranteed.
Illuma Lighting are continually developing and improving its products. Technical specifications subject to change without prior notice.
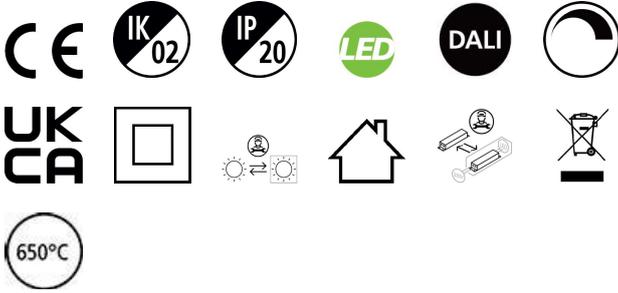For full terms and conditions visit: https://www.illuma.co.uk/terms.htm

CONCORD BEACON MUSE 3000K SM DALI WHITE

Concord

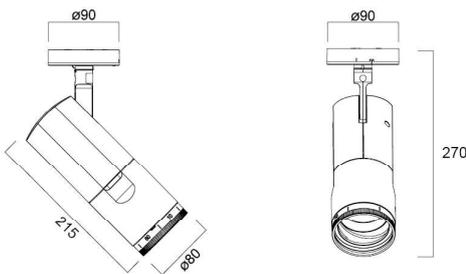Item No: 2062590

CE IK 02 IP 20 LED DALI

UKCA □ ⇄ 🏠 📷 🗑

650°C

Simple and slick integral design with no driver box and without any visible screws New technology utilization for improved performance Invisible in-track adaptor for an impressive architectural look Extremely precise light beams due to the high-quality lens ⌀80mm die-cast aluminium body, Adjustable beam angle:between 8° - 55° , Textured white finishing colour Light color temperature: 3000K, warm light System power: 18W, Fixture lumen output: 980lm, efficacy: 55lm/W, Ra97 typical, LED chromacity: 2 step MacAdam ellipse LED source (SDCM2), IR/UV free light source without heat radiation Operating voltage 220-240V / 50-60Hz, DALI Surface mounting with surface mounting base. Electrical protection: Class II. Degree of protection: IP20, suitable for indoor environment only Horizontal rotation: 355°, vertical tilt: 90° Nominal product dimensions: D.80mmx215mm 5 years warranty. Suitable for ceiling surface mounting, and wall surface mounting
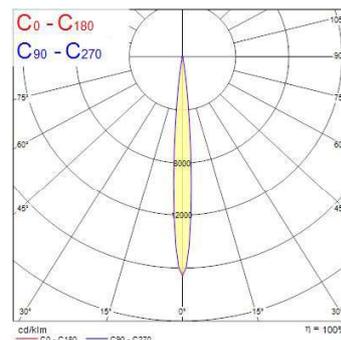
Technical Assets

Dimensions (mm)

⌀90

⌀90
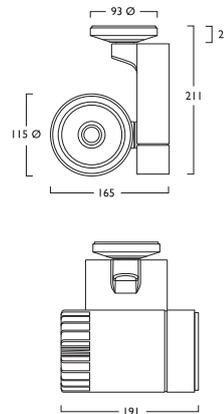
270

215

⌀80

Photometrics

Distance [m]	Cone diameter [m]			Illuminance [lx]
0.5	0.08 / 0.08	E(0°)		33956
		E(C90)	4.4°	17229
		E(C0)	4.5°	16822
1.0	0.15 / 0.16	E(0°)		8399
		E(C90)	4.4°	4307
		E(C0)	4.5°	4206
1.5	0.23 / 0.24	E(0°)		3733
		E(C90)	4.4°	1914
		E(C0)	4.5°	1869
2.0	0.31 / 0.31	E(0°)		2100
		E(C90)	4.4°	1077
		E(C0)	4.5°	1051
2.5	0.38 / 0.39	E(0°)		1344
		E(C90)	4.4°	689
		E(C0)	4.5°	673
3.0	0.46 / 0.47	E(0°)		933
		E(C90)	4.4°	479
		E(C0)	4.5°	467

C0 - C180 (Half beam angle: 9.0°)
C90 - C270 (Half beam angle: 8.8°)

C0 - C180
C90 - C270

cd/klm   C0 - C180   C90 - C270   η = 100%

Azuma® Maxi

LED CRI 80

Surface

30W	LED	IS473	LED	30		+	453
37W	LED	IS473	LED	37		+	453

Single Circuit Track

30W	LED	TS473	LED	30		+	453
37W	LED	TS473	LED	37		+	453

Three Circuit Track

30W	LED	TT473	LED	30		+	453
37W	LED	TT473	LED	37		+	453

DALI Track

30W	LED	TD473	LED	30		+	453
37W	LED	TD473	LED	37		+	453

LED CRI 90

Surface

30W	LED	IS474	LED	30		+	454
37W	LED	IS474	LED	37		+	454

Single Circuit Track

30W	LED	TS474	LED	30		+	454
37W	LED	TS474	LED	37		+	454

Three Circuit Track

30W	LED	TT474	LED	30		+	454
37W	LED	TT474	LED	37		+	454

DALI Track

30W	LED	TD474	LED	30		+	454
37W	LED	TD474	LED	37		+	454

- Available in a choice of lumen outputs, delivering up to 6840 lumens
- Efficacies up to 138 lm/W
- Single point Zhaga Book 3 LED
- Medium beam reflector as standard
- Life expectancy in excess of 57,000 hours (L90 B10)
- Colour stability within 3 MacAdams
- Protective glass fitted as standard
- Complementary Wall Lights available
- Track versions not suitable for wall mounting
- Dimmable Three Circuit Track versions use Three Phase adaptors permitting only single circuit control. The Track requires the relevant dimming wiring.
- DALI Track versions are eminently suited to diverse, adaptable lighting scenarios. The Track requires the relevant dimming wiring.
- Wireless Lighting Control available, see Connected video for full overview

A Integral Driver/Remote
J Switch Dim - *Not available in Single Circuit Track*
S DALI Dim - *Not available in Single Circuit Track*
L DALI Bluetooth

3 Warm (3000K)   **4** Neutral (4000K)

1 White (RAL 9010)   **2** Urban Graphite (RAL 7046)   **3** Black (RAL 9005)

Reflector			CRI 80	CRI 90
384	Narrow Beam	18°	455	456
318	Standard Beam	28°	458	460
385	Wide Beam	54°	457	458

Baffle Option - *Examples Shown on page 2*

93 Ø | 24 | 211 | 115 Ø | 165 | 191

230V 50Hz | IP 20 | 180° | 340° | 50mm | 3.0 kg

Narrow 18°   **Medium 28°** *Standard*   **Wide 54°**

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3	Warm White LED (3000K)	CRI 80	30W	37W		CRI 90	30W	37W
	Lumen Output		5479 lm	6549 lm			4432 lm	5324 lm
	LOR		0.81	0.81			0.81	0.81
	CRI		80	80			90	90
	Total Power		33.4W	40.9W			33.4W	40.9W
	Power Factor		0.97	0.95			0.97	0.95
	Running Current		0.15A	0.19A			0.15A	0.19A
	Inrush Current (Std)		30A (200us)	24.7A (268us)			30A (200us)	24.7A (268us)
	Inrush Current (Dim)		5.33A (42us)	28A (165us)			5.33A (42us)	28A (165us)
	Efficacy		132 lm/W	129 lm/W			107 lm/W	105 lm/W
	Emergency Output (BLF)		N/A	N/A			N/A	N/A

4	Neutral White LED (4000K)	CRI 80	30W	37W		CRI 90	30W	37W
	Lumen Output		5727 lm	6840 lm			4831 lm	5773 lm
	LOR		0.81	0.81			0.81	0.81
	CRI		80	80			90	90
	Total Power		33.4W	40.9W			33.4W	40.9W
	Power Factor		0.97	0.95			0.97	0.95
	Running Current		0.15A	0.19A			0.15A	0.19A
	Inrush Current (Std)		30A (200us)	24.7A (268us)			30A (200us)	24.7A (268us)
	Inrush Current (Dim)		5.33A (42us)	28A (165us)			5.33A (42us)	28A (165us)
	Efficacy		138 lm/W	135 lm/W			117 lm/W	114 lm/W
	Emergency Output (BLF)		N/A	N/A			N/A	N/A

Options

◼ **Baffle** Option

540 Anti Glare Baffle

Photometrics

Transverse	Axial		Transverse	Axial		Transverse	Axial
0°/180°	90°/270°		0°/180°	90°/270°		0°/180°	90°/270°
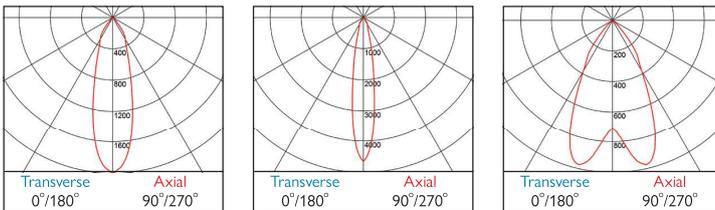
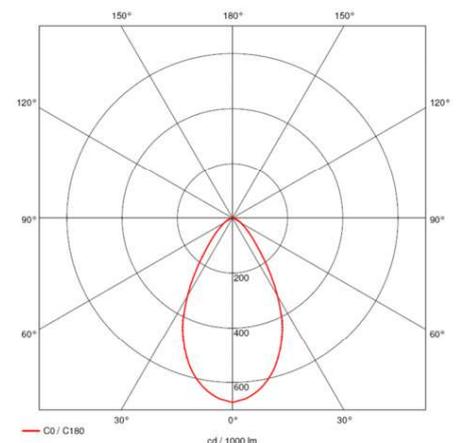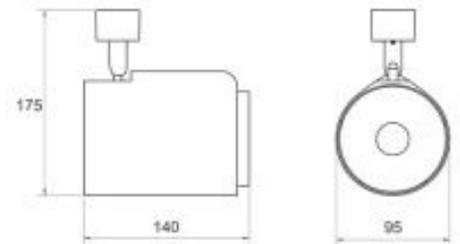| **453-454** DLOR: 0.81 | | **455-456** DLOR: 0.83 | | **457-458** DLOR: 0.86 |

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* All values provided in this document are subject to International standards and electronic components from leading suppliers which are subject to
+/- 10% tolerance and apply at an ambient temperature of 25°C. Hacel Lighting look to constantly improve it's product and reserve the right to change
specifications without prior notification.

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F l u e n t i n L i g h t i n g

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Technical Data Sheet

Range Name:	Prospot
Product Type:	Spotlights
Description:	Prospot LED-2500lm-60°-Warm White-White-Surface Mounting Plate-DALI Dimmable.Supplied with DALI 1 drivers.Check compatibility before purchase
Product Code:	T462560-WH/DD/930

Body Colour:	White
Mounting:	Surface Mounted
Track Adaptor:	Surface - Surface Mounting Plate
Pendant Stem Length(mm):	-
Environment:	Interior
Size(mm)	140 x 95
Cut Out(mm):	-
Recessed Depth(mm):	-
Vertical Tilt(°):	90°
Horizontal Rotation(°):	355°
Light Source:	LED
Lamp Type:	Luminus LED
Lamp Included:	In Built
Lamp Base:	-
Lamp Life(Hours):	50000 hours
Lumen Output(lm):	3100lm
Colour Temperature(k):	3000k Warm White
CRI(Ra):	92
Beam Angle(°):	60°
Lense:	-
Voltage(V):	230VAC
Total System Power(W):	33.1W
Lamp Current(A):	0.144
Power Factor:	-
Luminaire Efficacy(lm/W):	76 lm/W
Class:	Class 1
Gear:	Built In
EAN Code:	-
Dimmability:	DALI Dimmable
Emergency:	-
IP Rating:	IP20
Weight(kg):	1.1kg
Housing Material:	Aluminium
Material Finish:	Powder Coated

CONCORD BEACON 3000K SM WIDE DALI BLACK

Data Sheet 13
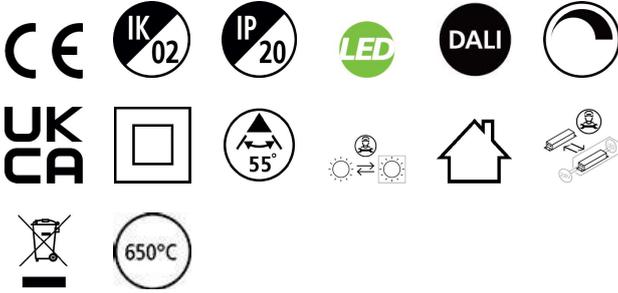
Item No: 2062557

Concord
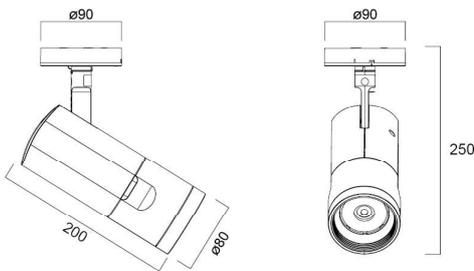
Simple and slick integral design with no driver box and without any visible screws New technology utilization for improved performance Extremely precise light beams due to the high-quality lenses ⌀80mm die-cast aluminium body, Fix beam angle: 55° , Textured black finishing colour Light color temperature: 3000K, warm light System power: 18W, Fixture lumen output: 1525lm, efficacy: 85lm/W, Ra97 typical, LED chromacity: 2 step MacAdam ellipse LED source (SDCM2), IR/UV free light source without heat radiation Operating voltage 220-240V / 50-60Hz, electronic driver, DALI dimmable Surface mounting with surface mounting base. Electrical protection: Class II. Degree of protection: IP20, suitable for indoor environment only Horizontal rotation: 355°, vertical tilt: 90° Nominal product dimensions: D.80mmx200mm 5 years warranty. Suitable for ceiling surface mounting, and wall surface mounting

Technical Assets

Dimensions (mm)

Photometrics
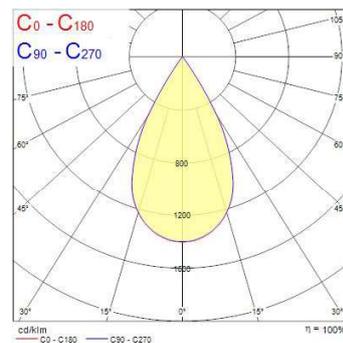
STRIPLINE 41
Architectural Linear

CE

Stripline 41 with 25.5W, 3000K, 80 CRI, 2578lm, 12x55° light engine. IP66 clear glass & remote DALI control gear. Finished in Grey.

Variant	Stripline 41
Adjustability	Tilt
Beam Angle	12x55°
CCT Channel 1	3000K
CRI	80
Driver	DALI
Driver Type	Remote
Glass	Clear
Installation Fixing Method	Surface, Adjustable Arm Mounted
IP Rating	IP66
Lamp Life	L70 B10 50,000 hours
Lamp Lumens Channel 1	2998lm
Lamp Wattage	25.5W
LED's per/m	24
Lumen Output	2578lm
Luminaire Lumens Channel 1	2578lm
Ambient Operating Temperature	"-10C to +55C"
Light Source	Single Colour
Product Length	1000
Trim Finish	Grey
Voltage	24V
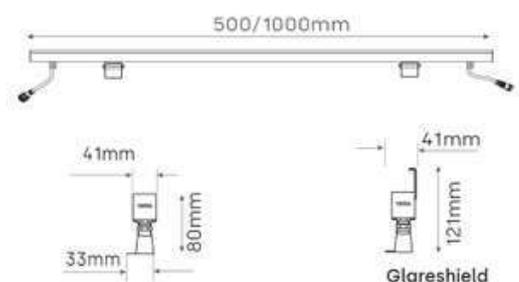
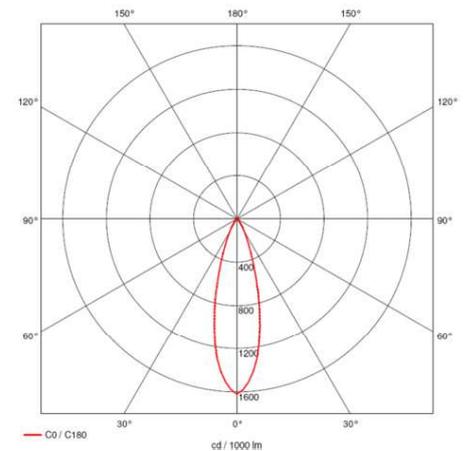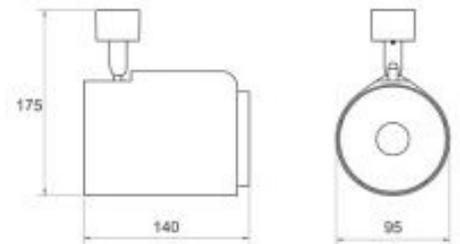*As part of our continuous product development we reserve the right to amend these specifications without prior notice.*

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Technical Data Sheet

Range Name:	Prospot
Product Type:	Spotlights
Description:	Prospot LED-2500lm-38°-Warm White-White-Surface Mounting Plate-DALI Dimmable.Supplied with DALI 1 drivers.Check compatibility before purchase
Product Code:	T462538-WH/DD/930

Body Colour:	White
Mounting:	Surface Mounted
Track Adaptor:	Surface - Surface Mounting Plate
Pendant Stem Length(mm):	-
Environment:	Interior
Size(mm)	140 x 95
Cut Out(mm):	-
Recessed Depth(mm):	-
Vertical Tilt(°):	90°
Horizontal Rotation(°):	355°
Light Source:	LED
Lamp Type:	Luminus LED
Lamp Included:	In Built
Lamp Base:	-
Lamp Life(Hours):	50000 hours
Lumen Output(lm):	3100lm
Colour Temperature(k):	3000k Warm White
CRI(Ra):	92
Beam Angle(°):	38°
Lense:	-
Voltage(V):	230VAC
Total System Power(W):	33.1W
Lamp Current(A):	0.144
Power Factor:	-
Luminaire Efficacy(lm/W):	76 lm/W
Class:	Class 1
Gear:	Built In
EAN Code:	-
Dimmability:	DALI Dimmable
Emergency:	-
IP Rating:	IP20
Weight(kg):	1.1kg
Housing Material:	Aluminium
Material Finish:	Powder Coated

Images, line drawings and measurements illustrated may, in some cases be approximate and for guidance only. Colour finishes will be maintained as accurately as possible but matching cannot be guaranteed.
Illuma Lighting are continually developing and improving its products. Technical specifications subject to change without prior notice.
For full terms and conditions visit: https://www.illuma.co.uk/terms.htm

Aart® Midi

LED CRI 80

Surface

14W	LED	IS1274	LED	14	587
21W	LED	IS1274	LED	21	587
25W	LED	IS1274	LED	25	587

Three Circuit Track

14W	LED	TT1274	LED	14	587
21W	LED	TT1274	LED	21	587
25W	LED	TT1274	LED	25	587

DALI Track

14W	LED	TD1274	LED	14	587
21W	LED	TD1274	LED	21	587
25W	LED	TD1274	LED	25	587

LED CRI 90

Surface

14W	LED	IS1275	LED	14	588
21W	LED	IS1275	LED	21	588
25W	LED	IS1275	LED	25	588

Three Circuit Track

14W	LED	TT1275	LED	14	588
21W	LED	TT1275	LED	21	588
25W	LED	TT1275	LED	25	588

DALI Track

14W	LED	TD1275	LED	14	588
21W	LED	TD1275	LED	21	588
25W	LED	TD1275	LED	25	588

TT versions not suitable for use with Gear Types J & S
TD versions not suitable for use with Gears Type A & L

Surface

153 / 78 / 32 / 146 / 94 / 155
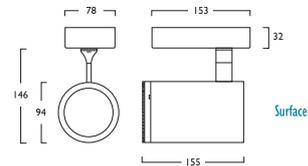
230V 50Hz / IP20 / 90° / 347° / 130 x 50mm / 1.6 kg

Track

231 / 43 / 146 / 94 / 155

230V 50Hz / IP20 / 90° / 347° / 1.6 kg

- Ideally suited to Museums, Art Galleries and Retail applications
- Adjustable beam angle from 10° (Narrow) to 60° (Wide)
- Available in a choice of lumen outputs up to 3923 lumens
- Life expectancy in excess of 60,000 hours (L80 B10)
- Colour stability within 3 MacAdams
- Protective glass fitted as standard
- DALI Track versions are eminently suited to diverse, adaptable lighting scenarios. The Track requires the relevant dimming wiring
- Wireless Lighting Control available, see Connected video for full overview

Photometrics

Transverse 0°/180°	Axial 90°/270°	Transverse 0°/180°	Axial 90°/270°	Transverse 0°/180°	Axial 90°/270°
587-588 (60°)		**587-588** (35°)		**587-588** (10°)	

A Integral Driver/Remote
J Switch Dim
S DALI Dim
L DALI Bluetooth

3 Warm (3000K)   **4** Neutral (4000K)

1 White (RAL 9010)   **2** Urban Graphite (RAL 7046)   **3** Black (RAL 9005)

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Aart® Midi

3 Warm White LED (3000K)

	CRI 80	14W	21W	25W	CRI 90	14W	21W	25W
Lumen Output		2264 lm	3229 lm	3797 lm		1771 lm	2593 lm	2990 lm
LOR		0.68	0.68	0.68		0.68	0.68	0.68
CRI		80	80	80		90	90	90
Total Power		14.5W	22.4W	26.4W		14.5W	22.4W	26.4W
Power Factor		0.95	0.95	0.95		0.95	0.95	0.95
Running Current		0.07A	0.10A	0.12A		0.07A	0.10A	0.12A
Inrush Current (Std)		5A (50us)	5A (50us)	5A (50us)		5A (50us)	5A (50us)	5A (50us)
Inrush Current (Dim)		5A (50us)	5A (50us)	5A (50us)		5A (50us)	5A (50us)	5A (50us)
Efficacy		106 lm/W	98 lm/W	97 lm/W		83 lm/W	78 lm/W	77 lm/W
Emergency Output (BLF)		N/A	N/A	N/A		N/A	N/A	N/A

4 Neutral White LED (4000K)

	CRI 80	14W	21W	25W	CRI 90	14W	21W	25W
Lumen Output		2347 lm	3411 lm	3923 lm		2010 lm	2926 lm	3368 lm
LOR		0.68	0.68	0.68		0.68	0.68	0.68
CRI		80	80	80		90	90	90
Total Power		14.5W	22.4W	26.4W		14.5W	22.4W	26.4W
Power Factor		0.95	0.95	0.95		0.95	0.95	0.95
Running Current		0.07A	0.10A	0.12A		0.07A	0.10A	0.12A
Inrush Current (Std)		5A (50us)	5A (50us)	5A (50us)		5A (50us)	5A (50us)	5A (50us)
Inrush Current (Dim)		5A (50us)	5A (50us)	5A (50us)		5A (50us)	5A (50us)	5A (50us)
Efficacy		110 lm/W	103 lm/W	101 lm/W		94 lm/W	88 lm/W	86 lm/W
Emergency Output (BLF)		N/A	N/A	N/A		N/A	N/A	N/A

3 Warm White LED (3000K)

	CRI 80	14W	21W	25W	CRI 90	14W	21W	25W
Lumen Output		2264 lm	3229 lm	3797 lm		1771 lm	2593 lm	2990 lm
LOR		0.68	0.68	0.68		0.68	0.68	0.68
CRI		80	80	80		90	90	90
Total Power		14.3W	22.0W	26.0W		14.3W	22.0W	26.0W
Power Factor		0.96	0.97	0.97		0.96	0.97	0.97
Running Current		0.07A	0.10A	0.12A		0.07A	0.10A	0.12A
Inrush Current (Std)		3.5A (35us)	18.0A (210us)	24.0A (200us)		3.5A (35us)	18.0A (210us)	24.0A (200us)
Inrush Current (Dim)		20.0A (165us)	25.0A (140us)	28.0A (165us)		20.0A (165us)	25.0A (140us)	28.0A (165us)
Efficacy		107 lm/W	99 lm/W	99 lm/W		84 lm/W	80 lm/W	78 lm/W
Emergency Output (BLF)		N/A	N/A	N/A		N/A	N/A	N/A

4 Neutral White LED (4000K)

	CRI 80	14W	21W	25W	CRI 90	14W	21W	25W
Lumen Output		2347 lm	3411 lm	3923 lm		2010 lm	2926 lm	3368 lm
LOR		0.68	0.68	0.68		0.68	0.68	0.68
CRI		80	80	80		90	90	90
Total Power		14.3W	22.0W	26.0W		14.3W	22.0W	26.0W
Power Factor		0.96	0.97	0.97		0.96	0.97	0.97
Running Current		0.07A	0.10A	0.12A		0.07A	0.10A	0.12A
Inrush Current (Std)		3.5A (35us)	18.0A (210us)	24.0A (200us)		3.5A (35us)	18.0A (210us)	24.0A (200us)
Inrush Current (Dim)		20.0A (165us)	25.0A (140us)	28.0A (165us)		20.0A (165us)	25.0A (140us)	28.0A (165us)
Efficacy		111 lm/W	105 lm/W	102 lm/W		95 lm/W	90 lm/W	88 lm/W
Emergency Output (BLF)		N/A	N/A	N/A		N/A	N/A	N/A

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