



LIGHTING ASSESSMENT

In respect of new works to include a Shop, EV charging bays with canopy over, parking bays and associated compounds

BP Pinkham Way SF Connect, A406 North Circular, Bounds Green,
London. N11 2UU

New Exterior Lighting.

Please refer to the Proposed Lighting Plan (BP196).

The site area affected by the new lighting is as described above.

The new lighting is indicated (A,B,C,D and E).

Impact on neighbouring property by the new scheme and compliance.

The resulting illuminance contours for the new luminaires and locations are shown on Drawing DM196.

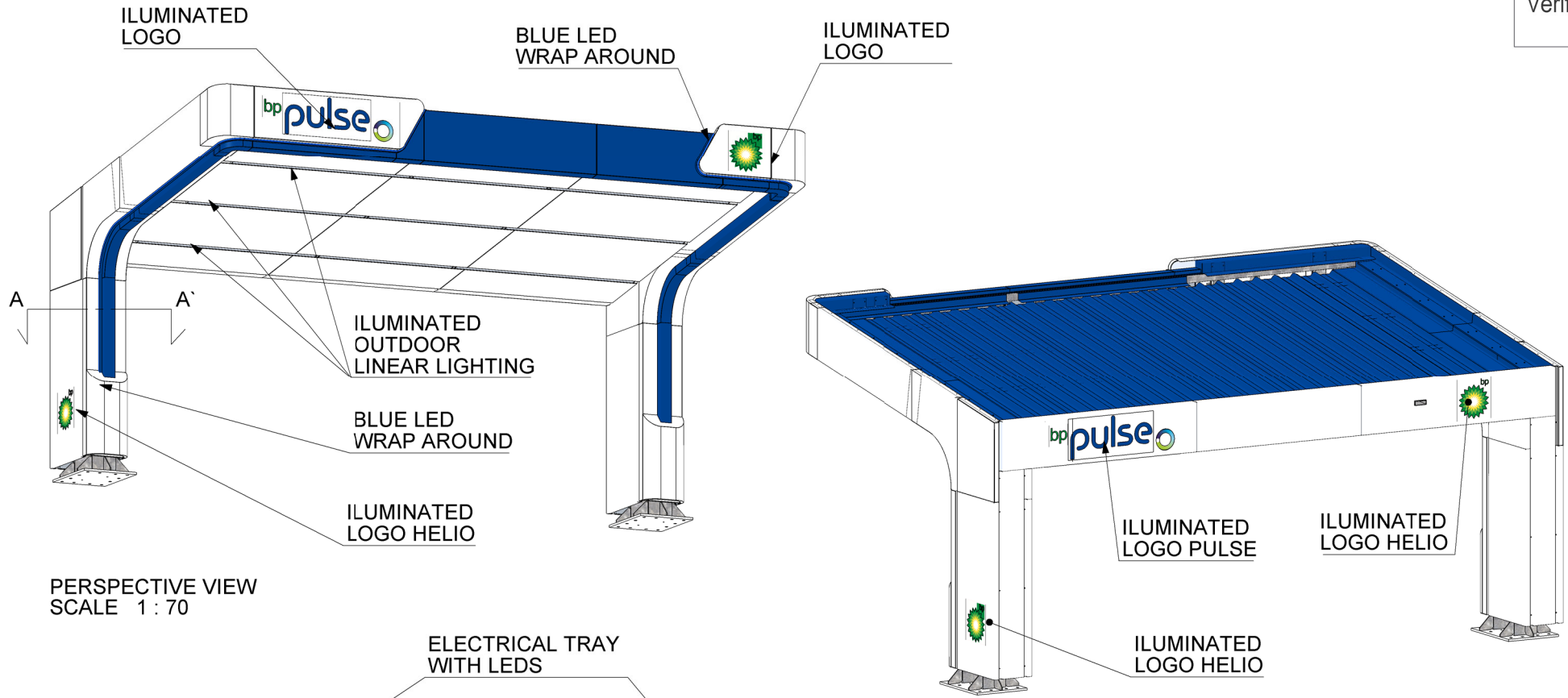
The type of luminaire specified by location is described within the key.

Relevant luminaire product datasheets are included within the Lighting Documentation

Existing and proposed boundary treatment to adjacent public roads and property along with the benefit of good lighting design with new LED technology enclosed within structures or below fence/wall line will provide a high degree of control to restrict any boundary spillage of light and eliminate nuisance to neighbouring residents and adjacent wildlife habitats.

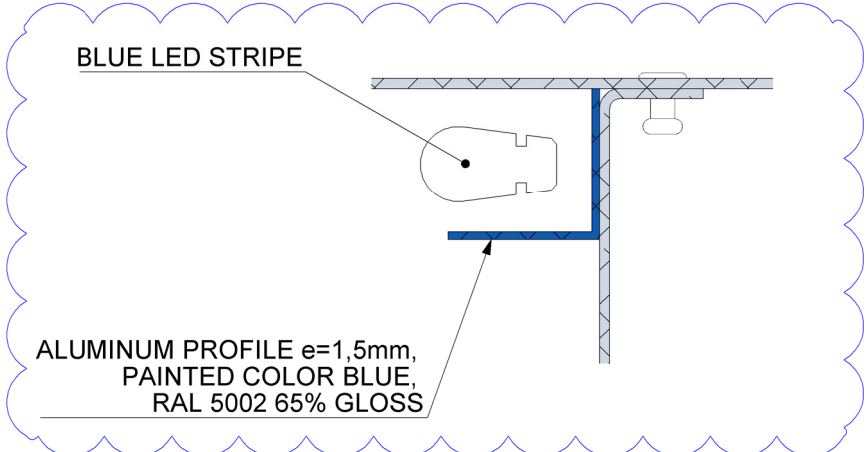
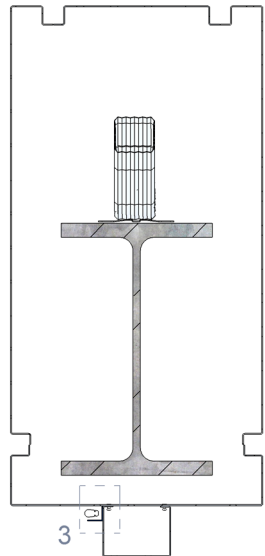
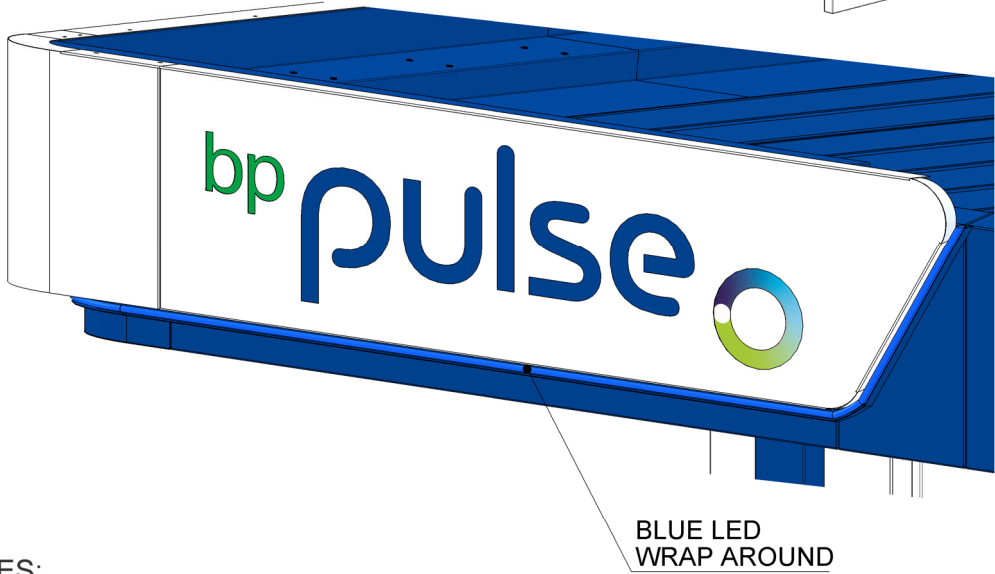
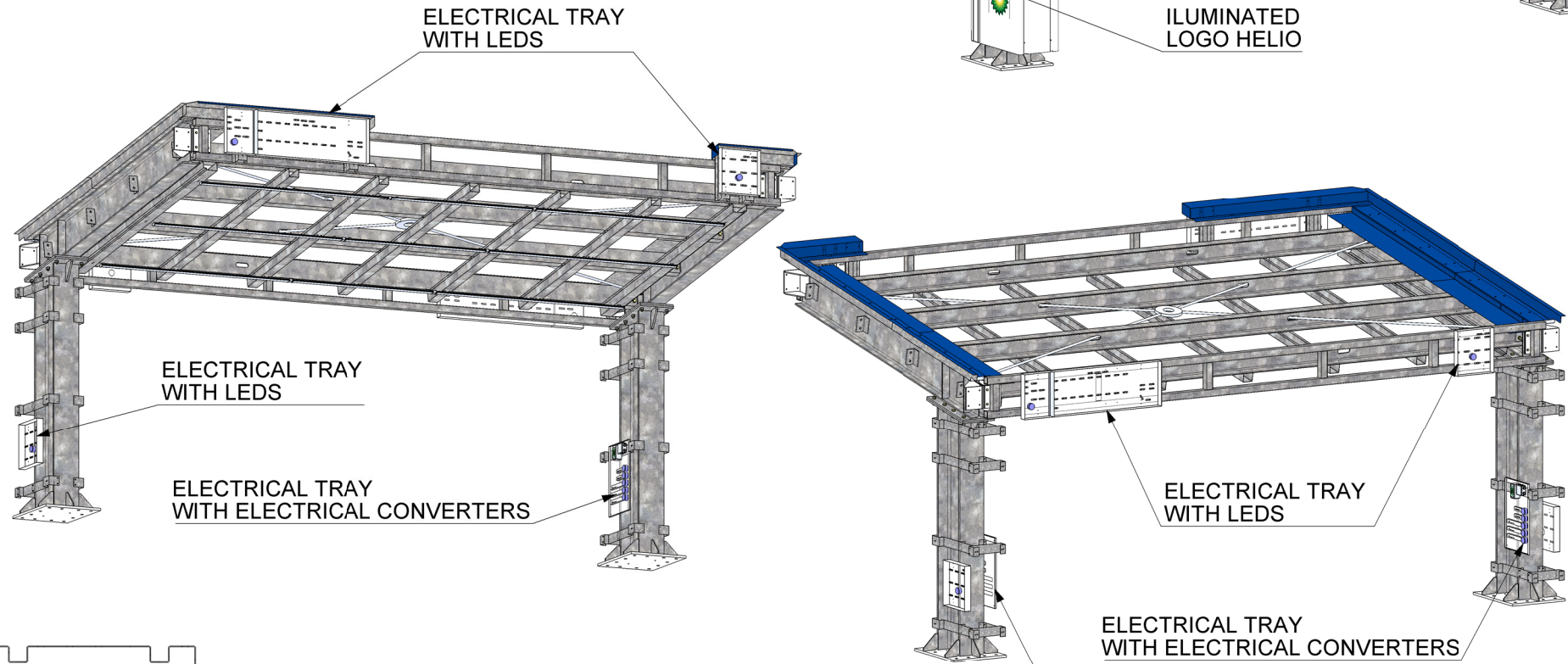
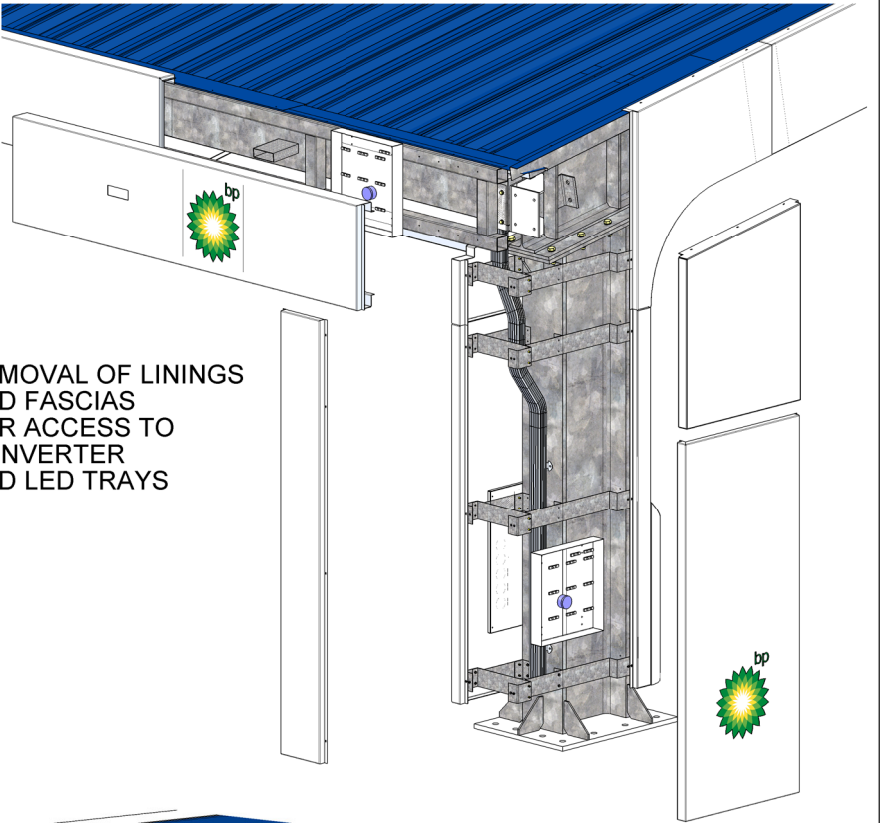
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THIS DRAWING BELONGS TO MEGAPLAS S.A. IT CAN'T BE REPRODUCED, MODIFIED OR TRANSFERRED TO A THIRD.



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REVIEW				
REV.	MODIFICATION	EMISSION	DRAWN	APPROVED
02	REVISION 02	24/08/2022	F.J.R.	A.P.M.
03	REVISION 03	28/10/2022	F.J.R.	A.P.M.
04	REVISION 04	10/10/2022	F.J.R.	A.P.M.



WORKING IN PROCESS

- NOTES:
- 1- IN CASE OF DOUBT, PLEASE CONTACT WITH TECHNICAL DEPARTMENT.
 - 2- SOME STRUCTURE DETAILS ARE PENDING THE FINAL STRUCTURE CALCULATION.

RAL 5002 PANTONE 073C	PANTONE 2350C	PROCESS CYAN	RAL 6024 PANTONE 355C	RAL 5005 PANTONE BLACK	RAL 9003 PANTONE WHITE	bp pulse
BRAND COLORS						

Scale 1:100	Weight - Kg	
General Tol. ISO 2768mK	Dimensions in mm.	
	Name	Date
Drawn	F.J.R.	28/06/2022
Checked	A.P.M.	24/08/2022

Issue BP - BRITISH PETROLEUM GLOBAL EV CANOPY STANDARD			
Denomination ELECTRICAL COMPONENTS		Code	Sheet1 of 1
		BPMQ40-DESING-07	

HighLINER 3

Outdoor and indoor linear lighting



Ordering information

Luminaire

Example: 701912-L250C3i18

701912-		C3i18	
Product	Length	Color temp. (CCT) [†]	Options
701912	L1 0.3 m (1 ft)	35 3500 K	QC Quick connect (factory installed male/female connector at each end) 701187-DC or 701188-DC^Δ must be ordered for connection to driver
	L2 0.6 m (2 ft)	50 5000 K	
	L4 1.2 m (4 ft)		
	L6 1.8 m (6 ft)		
	L8 2.4 m (8 ft)		

Product description

Designed to replace fluorescent lighting, HighLINER 3 is a versatile product for soffits, awnings, and wall washes, that offers natural, white, outdoor and indoor linear illumination for both new construction and retrofit projects, while saving energy, and reducing maintenance costs, for a brilliant bottom line.

- Easy installation in new construction and retrofit projects
- Improves walkway / aisle visibility and building aesthetics
- Fits easily in new or existing interior / exterior spaces
- Constant Voltage Technology (CV)
- Easily daisy-chain up to six (6) 1.2-m (4-ft) luminaires with 100 W driver
- IP68-rated
- 100,000 hours calculated life
- NSF/ANSI 2 qualified for use around food processing and on processing equipment

* Tolerance range for optical and electrical data +/- 15%.
† IP68 ratings provide protection for extreme outdoor and wet applications, or harsh weather exposure. Do not mount in submerged applications.
‡ Based on LED component manufacturer data.
§ Luminaires ship with mounting clips and wire nut housings.
¶ Contact SloanLED Sales for additional CCT options.
Δ See Accessories on page 3.

Product specifications

Electrical

Input voltage 24 VDC

Model	System power	Output (nominal)		Efficacy*	
		3500 K	5000 K	3500 K	5000 K
0.3 m (1')	4.6 W	559 Lumens	607 Lumens	122 lm/W	132 lm/W
0.6 m (2')	9.3 W	1,119 Lumens	1,168 Lumens		
1.2 m (4')	18.5 W	2,237 Lumens	2,430 Lumens		
1.8 m (6')	27.8 W	3,356 Lumens	3,646 Lumens		
2.4 m (8')	37.0 W	4,475 Lumens	4,861 Lumens		

Lighting

Light distribution Linear

Color temperatures (CCT)[†] 3500 K, 5000 K

Color rendering (CRI) >80

Performance

Operating temperature -25° C to +50° C (-13° F to +122 F)

Ingress protection Luminaire IP68[‡]
Std. wire nut IP66
with housing[§]

UL locating rating Dry, damp, and wet locations

Life rating Per IES TM-21 @ 70° F (25° C):
Reported L₉₀ >36,000 hours
L₇₀ >60,000 hours
Calculated L₇₀ >100,000 hours[‡]

Dimming Optional motion sensing

Construction

Housing Acrylic, impact modified with UV stabilization

Body color White

Packaging Twelve (12) units per carton

Mounting

Mounting 8 in (203 mm) leads on each end,
mounting clips, and wire nut housings.
Optional components available.

Documentation

Warranty 10-year limited

Agency listings UL, NSF/ANSI 2, ETL, CE, RoHS

Files available LM-79, LM-80, IES



BP Pulse Floodlight – Urbidermis Vialactea/1248mm width/3.65m mounting height





CE RoHS



Materials

The pole is made from hot-dip galvanised structural and primed steel with paint finish and a base of 150 x 100 mm [6 x 4 in] and forked pole of 100 x 50 mm [4 x 2 in]. Individual shade or double shade for alignments, with two luminaires, and a rectangular section of the same material and finish. The luminaire body is made of extruded aluminium and refractor cover is made of polycarbonate.

Installation

The pole is fixed using a concrete cube, with groove for wiring, made on-site and four pole mechanical studs, 20 cm [8 in] below the pavement surface. Streetlight with two luminaires exclusive for alignments, affixing to the side of the luminaire.

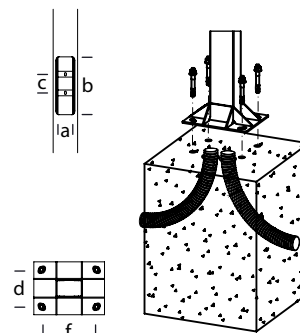
The streetlight is delivered disassembled in three parts: luminaire, shade and pole.

Instructions, screws, template and pole mechanical studs are included.

*Recommendations: for calculation in ground type II (according to UNE-40) and wind speed of 29 m/s, with soil formed by loose or wet dirt or sand of medium compactness ($E_0 = 4800 \text{ KN/m}^2$), with HM-20 concrete. Non-binding information.

We advise to carry out checks for each situation.

For further information go to urbidermis.com



Standards

EN 40-5, EN ISO 1461, UNE EN 60598, UNE EN 60031, UNE EN 55015, UNE EN 61000, UNE EN 60529, UNE EN 62471, IEC/TR 6247-2, UNE EN 62262. Lighting system with CE standard made by a laboratory certified by ENAC.

IP66 (protection from dust ingress and high-pressure water jets), Suitable for wet locations. IK08 (protection against external mechanical impacts).

Electrical rating

Class I (CE)

Finishes



Light grey



Aluminum silver (US only)

*The colours shown are merely indicative and may differ from reality. (Other colours on request)

**Request finishes for marine environments.

Weights kg [lb] (unpacked)

Single: 103 [227.08]

Double: 118 [260.15]

Vía Láctea Streetlight

Enric Batlle, Joan Roig. 1990

urbidermis

Technical information

High-efficiency optical 1 or 2 LED lineal modules.

Nominal lamp power (W)

1 LED module: 30

2 LED modules: 2x30

System power (W)

1 LED module: 32

2 LED modules: 2x32

Operating current (mA)

350.

Colour temperature (K)

3000 CRI min80.

Power supply

Constant current driver.

Operating voltage

220-240V 50-60Hz (CE)

Recommended wire

0,6/1 kV 3x2,5mm²

Operating rated temperature (°C)

30.

Regulation

1-10V / DALI / Header flux regulation / Programmable automatic regulation / Wireless connection through node to street lighting management platforms. The LED luminaire may be regulated using a number of differing interfaces. These controls allow specific, individual control of light, reducing energy consumption in a sustainable manner. Constant light output (clo) Assures a constant lumen output from the luminaire throughout its lifetime.

Lifetime

TM21 L70 (10k) > 60.000 h. Thanks to an optimised thermal design, the luminous flux is maintained up to 70% after 60.000 h.

Lighting distributions

Symmetric



TI

Upper Light Output Ratio (ULOR%)

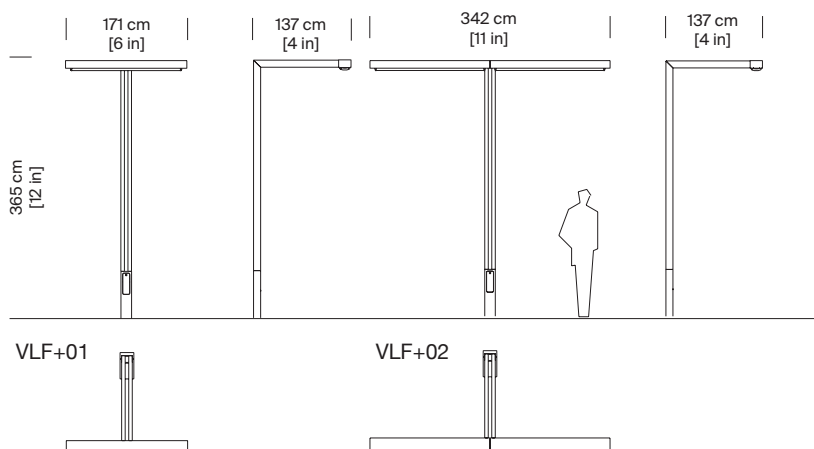
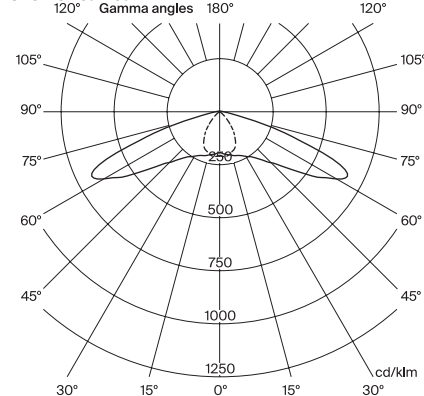
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Symmetric
Type I distribution

Max. intensity 341.76 cd/klm
(C=30°, G=60°)

LOR 100%

ULOR 0.46%±3%



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Warehouse
Carrer del Fou. Polígono Industrial Sud
E-08440 Cardedeu (Barcelona, Spain)
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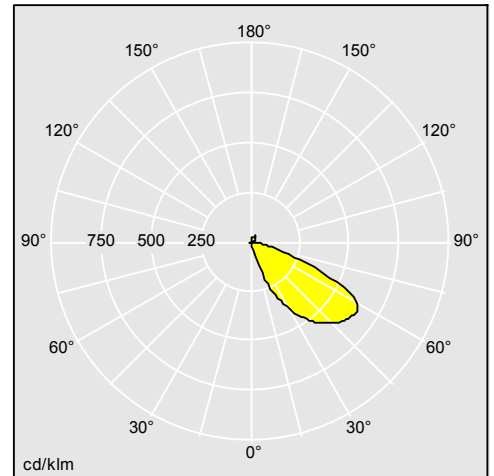
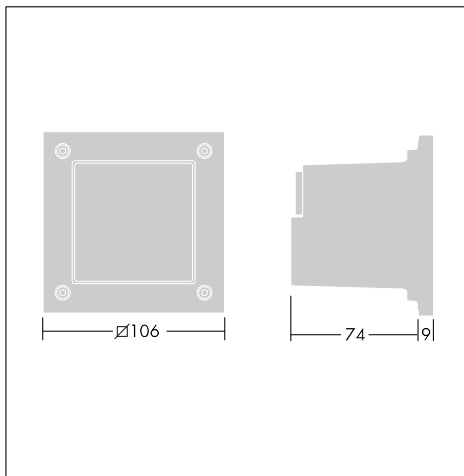
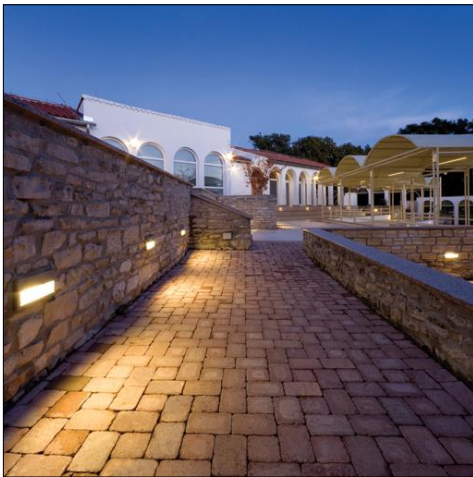
Linn

A complete modular wall recessed range offering extensive choice for all types of pathway lighting applications

- Modular design offers a wide range of lighting possibilities
- All integral in a compact body for easy integration with pre-ordered recessed housing
- Square or rectangular shape with a choice of four frame designs to complement all environments



Photographs, line drawings and photometric data are representative only. For specific product detail please select an individual product.



96262138

Material/Finish

Body: die-cast painted aluminium EN AB 47100 sanded grey Akzo Nobel 900
 Glass: tempered glass, 6mm for square versions and 8mm for rectangular versions
 Recessed housing: polypropylene 40% Talc added and polystyrene cores
 Gasket: Dutral
 Fits thread: EPDM
 Screws: stainless steel

Installation/Mounting

Install the recessed housing inside the wall. Connect the light source to the mains supply. Fix the body to the recessed housing. Attach the Linn luminaire to the chosen frame with four Torx screws with central pin. Through wiring is possible for the rectangular versions.

Specification

To specify state:

Modular wall recessed range for pathway lighting offering extensive choice including five light distributions, two light sources (LED and CFL), two white LED colour temperatures (3200K and 4200K) and four frame designs (frosted glass, visor, baffle, grid and clear glass) in a square or rectangular shape.

As Thorn Linn.

Linn

Ordering Guide All Linn luminaires require recessed box to prepare the wall installation, to be ordered separately. Except for the rectangular performance LED version, which is delivered complete, you need to order one body complete with light source module plus one frame version.
If you need standard Allen screws instead of the Torx with central pin, order the code 96262922 or 96262927 depending on the Linn shape.
For the rectangular CFL version, the lamp needs to be ordered separately.
The CFL body cannot support the baffle frame version.

Description	ILCOS Code	Socket	Wt (kg)	SAP Code
Linn Square body				
LINN SQ LED 2L35 832			0,3	96262124
LINN SQ LED 2L35 842			0,3	96262125
Linn Rectangular body				
LINN RCT LED 6L50 832			0,67	96262126
LINN RCT LED 6L50 842			0,67	96262127
Linn Performance versions				
LINN RCT LED 6L50 732 CL GL	LED		1,05	96262137
LINN RCT LED 6L50 742 CL GL	LED		1,05	96262138
Linn Square frames				
LINN SQ FR GL FRAME			0,16	96262129
LINN SQ VISOR FRAME			0,2	96262130
LINN SQ BAF FRAME			0,21	96262131
LINN SQ GRID FRAME			0,2	96262132
Linn Rectangular frames				
LINN RCT FR GL FRAME			0,36	96262133
LINN RCT VISOR FRAME			0,44	96262134
LINN RCT BAF FRAME			0,44	96262135
LINN RCT GRID FRAME			0,47	96262136
Linn Recessing boxes				
LINN RCT RBOX			0,25	96262140
LINN SQ RBOX			0,11	96262139
LINN ALLEN SCREWS X 4			0,2	96262922
LINN RCT ALLEN SCREWS X 4			0,2	96262927
Linn Bollard				
LINN RCT BOLLARD GROUND BASE			2,5	96264339
LINN RCT BOLLARD EXTENSION			4,35	96264336



CoreLine Downlight

DN140B LED20S/840 PSU WR PI6

840 neutral white - Power supply unit - White reflector without louver - Push-in connector 6-pole - Finger-protected

The CoreLine Downlight range of recessed luminaires is designed to replace CFL-ni/CFL-i based downlight luminaires. Their attractive TCO helps customers to make the switch to LED. These luminaires create a natural lighting effect for use in general lighting applications. They also deliver instant energy savings and have a much longer lifetime, creating a real value-for-money and environmentally friendly solution. They are easy to install thanks to their standard cut-out size and push-in connectors.

Product data

General Information		CE mark	CE mark
Beam angle of light source	120 °	ENEC mark	-
Light source colour	840 neutral white	Warranty period	5 years
Light source replaceable	No	Remarks	* - According to the Lighting Europe guidance paper 'Evaluating performance of LED based luminaires – January 2018': statistically there is no relevant difference in lumen maintenance between the B50 and, for example, the B10. Therefore, the median useful life (B50) value also represents the B10 value.
Number of gear units	1 unit	Constant light output	No
Driver/power unit/transformer	PSU [Power supply unit]	Number of products on MCB (16 A type B)	48
Driver included	Yes	EU RoHS compliant	Yes
Optic type	WR [White reflector without louver]	Unified glare rating CEN	25
Luminaire light beam spread	90°		
Control interface	-		
Connection	Push-in connector 6-pole		
Cable	-		
Protection class IEC	Safety class I		
Glow-wire test	Temperature 850 °C, duration 5 s		
Flammability mark	F [For mounting on normally flammable surfaces]		

CoreLine Downlight

Operating and Electrical

Input Voltage	220-240 V
Input frequency	50 to 60 Hz
Initial CLO power consumption	- W
Average CLO power consumption	- W
End CLO power consumption	- W
Inrush current	2.2 A
Inrush time	0.045 ms
Power factor (min.)	0.95

Controls and Dimming

Dimmable	No
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Mechanical and Housing

Housing material	Polycarbonate
Reflector material	Polycarbonate
Optic material	Polycarbonate
Optical cover/lens material	Polycarbonate
Fixation material	Steel
Optical cover/lens finish	Frosted
Overall length	0 mm
Overall width	0 mm
Overall height	108 mm
Overall diameter	216 mm
Colour	White RAL 9003
Dimensions (height x width x depth)	108 x 0 x 0 mm (4.3 x 0 x 0 in)

Approval and Application

Ingress protection code	IP20 [Finger-protected]
Mech. impact protection code	IK02 [0.2 J standard]

Initial Performance (IEC Compliant)

Initial luminous flux (system flux)	2200 lm
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Luminous flux tolerance	+/-10%
Initial LED luminaire efficacy	116 lm/W
Init. Corr. Colour Temperature	4000 K
Init. Colour rendering index	≥80
Initial chromaticity	(0.380,0.377) SDCM≤5
Initial input power	19 W
Power consumption tolerance	+/-10%

Over Time Performance (IEC Compliant)

Control gear failure rate at median useful life	5 %
life 50,000 h	
Lumen maintenance at median useful life*	L70
50,000 h	

Application Conditions

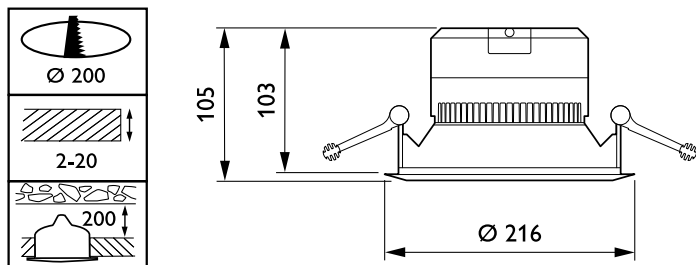
Ambient temperature range	-20 to +40 °C
Performance ambient temperature Tq	25 °C
Maximum dimming level	Not applicable
Suitable for random switching	Yes

Product Data

Full product code	871016332585900
Order product name	DN140B LED20S/840 PSU WR PI6
EAN/UPC – product	8710163325859
Order code	32585900
SAP numerator – quantity per pack	1
Numerator – packs per outer box	6
SAP material	911401631505
SAP net weight (piece)	0.490 kg

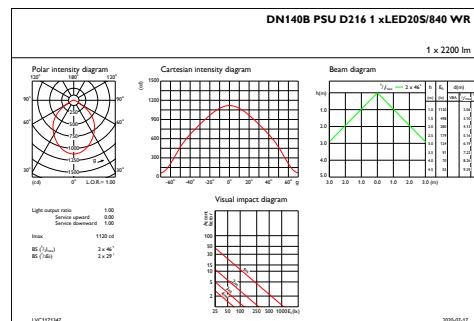
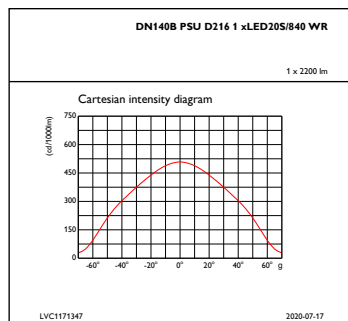


Dimensional drawing



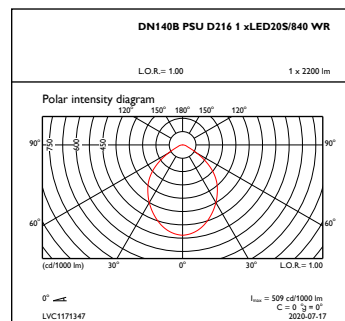
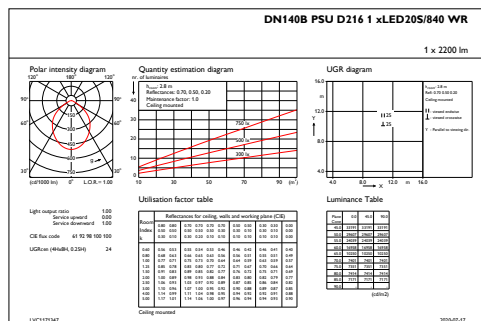
CoreLine Downlight DN140B

Photometric data



IFCC1_DN140BPSUD2161xLED20S840WR

IFAS1_DN140BPSUD2161xLED20S840WR



IFGU1_DN140BPSUD2161xLED20S840WR

OFPC1_DN140BPSUD2161xLED20S840WR





FWC LED

BWC120 LED18-/830 PSU II WH

SECURITY LED 120 - LED module 1800 lm - Power supply unit

Only texts for Benelux market available

Product data

General Information	
Number of light sources	1 pc
Lamp family code	LED18 [LED module 1800 lm]
Beam angle of light source	120 °
Light source color	830 warm white
Cap-Base	- [-]
Light source replaceable	No
Number of gear units	1 unit
Driver/power unit/transformer	Power supply unit
Driver included	Yes
Optic type	-
Optical cover/lens type	Opal bowl/cover
Luminaire light beam spread	180°
Connection	Screw connection block 3-pole
Cable	-
Protection class IEC	Safety class II
Glow-wire test	Temperature 650 °C, duration 5 s
Flammability mark	For mounting on normally flammable surfaces
CE mark	CE mark
ENEC mark	ENEC mark
Warranty period	5 years
Optic type outdoor	-

Photocell	-
Remarks	* At extreme ambient temperatures the luminaire might automatically dim down to protect components
Constant light output	No
Number of products on MCB of 16 A type B	50
EU RoHS compliant	Yes
Light source engine type	LED
Serviceability class	Class C, luminaire without serviceable parts, not serviceable
Product family code	BWC120 [SECURITY LED 120]

Light Technical

Upward light output ratio	0.08
Standard tilt angle posttop	0°
Standard tilt angle side entry	0°

Operating and Electrical

Input Voltage	220 to 240 V
Input Frequency	50 to 60 Hz
Inrush current	5 A
Inrush time	0.05 ms

FWC LED

Power Factor (Min)	0.95
Controls and Dimming	
Dimmable	No
Mechanical and Housing	
Housing Material	Acrylonitrile styrene acrylate
Reflector material	-
Optic material	-
Optical cover/lens material	Polycarbonate
Fixation material	Polyamide
Mounting device	Wall-mounting bracket
Optical cover/lens shape	Curved
Optical cover/lens finish	Opal
Overall length	282 mm
Overall width	178 mm
Overall height	134 mm
Effective projected area	0.06 m ²
Color	White
Dimensions (Height x Width x Depth)	134 x 178 x 282 mm (5.3 x 7 x 11.1 in)
Approval and Application	
Ingress protection code	IP54 [Dust accumulation-protected, splash-proof]
Mech. impact protection code	IK08 [5 J vandal-protected]
Surge Protection (Common/Differential)	Philips standard surge protection level

Initial Performance (IEC Compliant)	
Initial luminous flux (system flux)	1336 lm
Luminous flux tolerance	+/-10%
Initial LED luminaire efficacy	95 lm/W
Init. Corr. Color Temperature	3000 K
Init. Color Rendering Index	80
Initial chromaticity	(0.43, 0.40) SDCM <3
Initial input power	14 W
Power consumption tolerance	+/-10%

Application Conditions

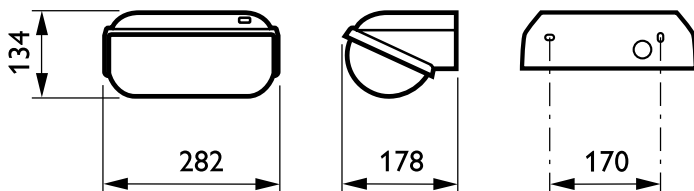
Ambient temperature range	-40 to +50 °C
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Product Data

Full product code	871829185193699
Order product name	BWC120 LED18-/830 PSU II WH
EAN/UPC - Product	8718291851936
Order code	910500454102
Numerator - Quantity Per Pack	1
Numerator - Packs per outer box	4
Material Nr. (12NC)	910500454102
Net Weight (Piece)	0.850 kg



Dimensional drawing



FWC110/120 LED BWC110/120

