CoreLine Waterproof

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WT120C LED18S/840 PSU L600

WT120C - LED Module, system flux 1800 lm - 840 neutral white - Power supply unit

Whether for a new building or renovation of an existing space, customers want lighting solutions that provide quality of light and substantial energy and maintenance savings. The new CoreLine Waterproof range of LED products can be used to replace traditional waterproof luminaires with fluorescent lamps. The process of selecting, installing and maintaining is so easy – it's a simple switch.

Product data

General Information

Number of light sources	1 pc
Lamp family code	LED18S [LED Module, system flux 1800 lm]
Beam angle of light source	120 °
Light source color	840 neutral white
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	Polycarbonate bowl/cover
Luminaire light beam spread	110°
Emergency lighting	-

Connection	Push-in connector and pull relief
Cable	-
Protection class IEC	Safety class I
Color	Gray
Glow-wire test	Temperature 850 °C, duration 30 s
Flammability mark	For mounting on normally flammable surfaces
CE mark	CE mark
ENEC mark	ENEC mark
UL mark	-
Warranty period	5 years
Constant light output	No
Number of products on MCB of 16 A type B	24
RoHS mark	RoHS mark

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Product family code	WT120C

Operating and Electrical

Input Voltage	220 to 240 V
Input Frequency	50 to 60 Hz
Inrush current	8 A
Inrush time	0.06 ms
Power Factor (Min)	0.9

Controls and Dimming

Dimmable	No

Mechanical and Housing

Housing Material	Polycarbonate
Reflector material	Steel
Optic material	Polycarbonate
Optical cover/lens material	Polycarbonate
Fixation material	Stainless steel
Optical cover/lens finish	Frosted
Overall length	661 mm
Overall width	87 mm
Overall height	96 mm

Approval and Application

Ingress protection code	IP65 [Dust penetration-protected, jet-proof]
Mech. impact protection code	IK08 [5 J vandal-protected]

Initial Performance (IEC Compliant)

Initial luminous flux	1800 lm
Luminous flux tolerance	+/-10%
Initial LED luminaire efficacy	106 lm/W

Init. Corr. Color Temperature	4000 K
Init. Color Rendering Index	80
Initial chromaticy	(0.38, 0.38) SDCM <3.5
Initial input power	17 W
Power consumption tolerance	+/-10%

Over Time Performance (IEC Compliant)

Driver failure rate at 5000 h	1 %
Median useful life L70B50	50000 h
Median useful life L80B50	30000 h
Median useful life L90B50	15000 h

Application Conditions

Ambient temperature range	0 to +25 °C
Average ambient temperature	25 °C
Suitable for random switching	Yes (relates to presence/ movement detection and daylight harvesting)

Product Data

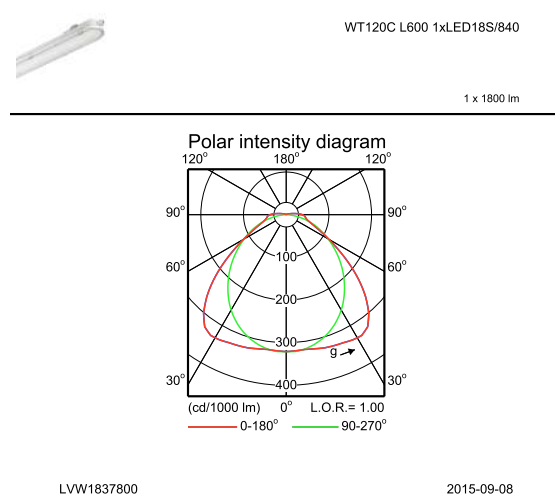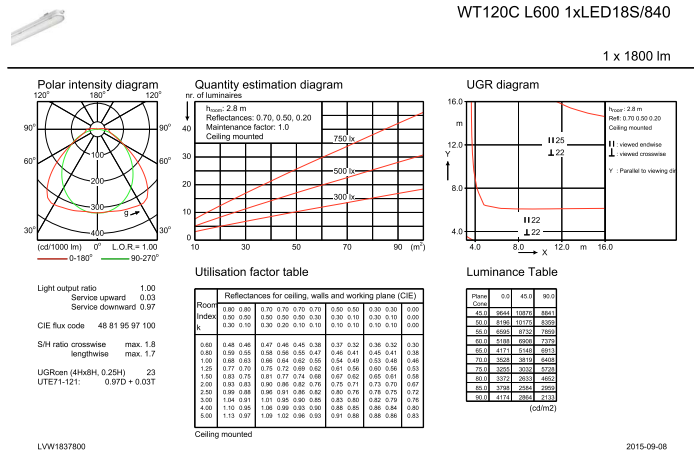|	
Full product code	871829184045900
Order product name	WT120C LED18S/840 PSU L600
EAN/UPC - Product	8718291840459
Order code	910500453335
Numerator - Quantity Per Pack	1
Numerator - Packs per outer box	1
Material Nr. (12NC)	910500453335
Net Weight (Piece)	0.930 kg

CE ⟪ F 850°C IP65 IK08 ⏚
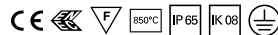
Dimensional drawing
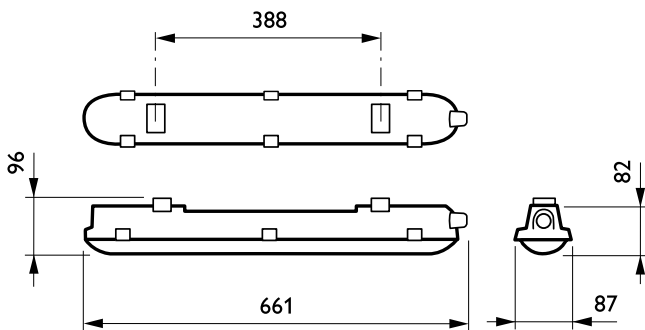
CoreLine Waterproof WT120C

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Photometric data

WT120C L600 1xLED18S/840

1 x 1800 lm

Polar intensity diagram

Quantity estimation diagram

nr. of luminaires

h$_{room}$: 2.8 m
Reflectances: 0.70, 0.50, 0.20
Maintenance factor: 1.0
Ceiling mounted

750 lx
500 lx
300 lx

UGR diagram

h$_{room}$: 2.8 m
Refl: 0.70 0.50 0.20
Ceiling mounted

II : viewed endwise
⊥ : viewed crosswise

Y : Parallel to viewing dir

II 25
⊥ 22

II 22
⊥ 22

Light output ratio 1.00
Service upward 0.03
Service downward 0.97

CIE flux code 48 81 95 97 100

S/H ratio crosswise max. 1.8
lengthwise max. 1.7

UGRcen (4Hx8H, 0.25H) 23
UTE71-121: 0.97D + 0.03T

Utilisation factor table

Reflectances for ceiling, walls and working plane (CIE)

Room Index k	0.80 0.80	0.70 0.70 0.70 0.70	0.50 0.50	0.30 0.30 0.00
	0.50 0.50	0.50 0.50 0.50 0.30	0.30 0.10	0.30 0.10 0.00
	0.30 0.10	0.30 0.20 0.10 0.10	0.10 0.10	0.10 0.10 0.00
0.60	0.48 0.46	0.47 0.46 0.45 0.38	0.37 0.32	0.36 0.32 0.30
0.80	0.59 0.55	0.58 0.56 0.55 0.47	0.46 0.41	0.45 0.41 0.38
1.00	0.68 0.63	0.66 0.64 0.62 0.55	0.54 0.49	0.53 0.48 0.46
1.25	0.77 0.70	0.75 0.72 0.69 0.62	0.61 0.56	0.60 0.56 0.53
1.50	0.83 0.75	0.81 0.77 0.74 0.66	0.67 0.62	0.65 0.61 0.58
2.00	0.93 0.83	0.90 0.86 0.82 0.76	0.75 0.71	0.73 0.70 0.67
2.50	0.99 0.86	0.96 0.91 0.86 0.82	0.80 0.76	0.78 0.75 0.72
3.00	1.04 0.91	1.01 0.95 0.90 0.85	0.83 0.80	0.82 0.79 0.76
4.00	1.10 0.95	1.06 0.99 0.93 0.90	0.88 0.85	0.86 0.84 0.80
5.00	1.13 0.97	1.09 1.02 0.96 0.93	0.91 0.88	0.88 0.86 0.83

Ceiling mounted

Luminance Table

Plane Cone	0.0	45.0	90.0
45.0	9644	10876	8841
50.0	8196	10175	8369
55.0	6695	8732	7859
60.0	5188	6906	7379
65.0	4171	5148	6913
70.0	3528	3819	6408
75.0	3255	3032	5728
80.0	3372	2633	4662
85.0	3798	2584	2959
90.0	4174	2864	2133

(cd/m2)

LVW1837800

2015-09-08

IFGU1_WT120C L600 1xLED18S840.EPS

Polar intensity diagram

(cd/1000 lm) 0° L.O.R.= 1.00
0-180° 90-270°

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IFPC1_WT120C L600 1xLED18S840.EPS