CoreLine Waterproof

WT120C LED34S/840 PSD L1500

WT120C - LED Module, system flux 3400 lm - 840 neutral white - Power supply unit with DALI interface

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 [1 pc]
Lamp family code	LED34S [LED Module, system flux 3400 lm]
Beam angle of light source	120 °
Light source colour	840 neutral white
Light source replaceable	No
Number of gear units	1 unit
Driver/power unit/transformer	PSD [Power supply unit with DALI interface]
Driver included	Yes
Optic type	No [-]
Optical cover/lens type	PC [Polycarbonate bowl/cover]
Luminaire light beam spread	110°
Emergency lighting	No [-]
Control interface	DALI
Connection	PIP [Push-in connector and pull relief]
Cable	-
Protection class IEC	Safety class I (I)

Colour	Grey
Glow-wire test	850/30 [Temperature 850 °C, duration 30 s]
Flammability mark	F [For mounting on normally flammable surfaces]
CE mark	CE mark
ENEC mark	-
UL mark	No
Warranty period	5 years
Constant light output	No
Number of products on MCB	24
RoHS mark	RoHS mark
Product Family Code	WT120C

Operating and Electrical	
Input voltage	220 to 240 V
Input frequency	50-60 Hz
Inrush current	21 A
Inrush time	0.28 ms

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Power factor (min.)	0.9

Controls and Dimming

Dimmable	Yes

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	1530 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	3400 lm
Luminous flux tolerance	+/-10%
Initial LED luminaire efficacy	117 lm/W
Init. Corr. colour temperature	4000 K
Init. colour rendering index	80
Initial chromaticity	(0.38, 0.38) SDCM <3.5
Initial input power	29 W
Power consumption tolerance	+/-10%

Over Time Performance (IEC Compliant)

Driver failure rate at 5,000 hours	1 %
Median useful life L70B50	50000 h
Median useful life L80B50	30000 h
Median useful life L90B50	15000 h

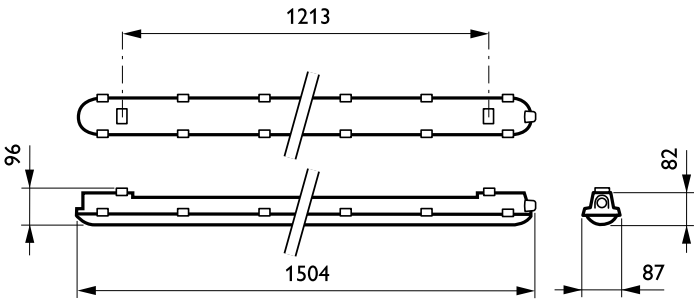
Application Conditions

Ambient temperature range	0 to +25 °C
Average ambient temperature	25 °C
Maximum dimming level	1%
Suitable for random switching	Yes (relates to presence/ movement detection and daylight harvesting)

Product Data

Full product code	871869688308200
Order product name	WT120C LED34S/840 PSD L1500
EAN/UPC – product	8718696883082
Order code	88308200
Numerator – quantity per pack	1
Numerator – packs per outer box	1
Material no. (12NC)	910500458245
Net weight (piece)	1.820 kg

Dimensional drawing



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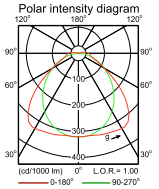
Photometric data

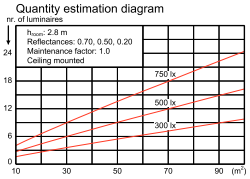
WT120C L1500 1xLED34S/840

1 x 3400 lm

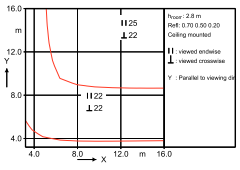
Polar intensity diagram



Quantity estimation diagram



UGR diagram



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

Utilisation factor table

Room Index k	Reflectances for ceiling, walls and working plane (CIE)								
	0.80	0.80	0.70	0.70	0.70	0.50	0.50	0.30	0.00
	0.50	0.50	0.50	0.50	0.50	0.30	0.30	0.10	0.00
	0.30	0.10	0.30	0.20	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	0.30
0.80	0.59	0.55	0.58	0.56	0.55	0.47	0.46	0.41	0.38
1.00	0.68	0.63	0.66	0.64	0.62	0.55	0.54	0.48	0.46
1.25	0.77	0.70	0.75	0.72	0.69	0.62	0.61	0.56	0.53
1.50	0.83	0.75	0.81	0.77	0.74	0.68	0.67	0.62	0.58
2.00	0.93	0.83	0.90	0.86	0.82	0.76	0.75	0.71	0.67
2.50	0.99	0.88	0.96	0.91	0.86	0.82	0.80	0.76	0.72
3.00	1.04	0.91	1.01	0.95	0.90	0.85	0.83	0.80	0.76
4.00	1.10	0.95	1.06	0.99	0.93	0.90	0.88	0.85	0.80
5.00	1.13	0.97	1.09	1.02	0.96	0.93	0.91	0.88	0.83

Ceiling mounted

Luminance Table

Plane Cone	0.0	45.0	90.0
45.0	7947	9074	7441
50.0	6753	8554	7063
55.0	5435	7313	6672
60.0	4275	5800	6302
65.0	3437	4335	5952
70.0	2907	3228	5581
75.0	2682	2575	5078
80.0	2778	2251	4264
85.0	3126	2231	2945
90.0	3439	2510	4028

(cd/m2)

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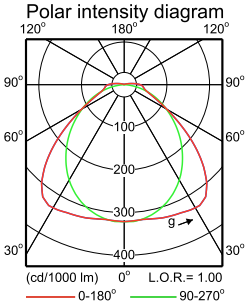
2015-09-08

IFGU1_WT120C L1500 1xLED34S840.EPS

WT120C L1500 1xLED34S/840

1 x 3400 lm

Polar intensity diagram



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IFPC1_WT120C L1500 1xLED34S840.EPS

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