CoreLine Waterproof

WT120C LED60S/840 PSU L1500

WT120C - LED Module, system flux 6000 lm - 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

Product Family Code	WT120C [WT120C]
Number of light sources	1 [1 pc]
Lamp family code	LED60S [LED Module, system flux 6000 lm]
Light source color	840 neutral white
Light source replaceable	No
Driver/power unit/ transformer	PSU [Power supply unit]
Driver included	Yes
Optical cover/lens type	PC [Polycarbonate bowl/cover]
Emergency lighting	-
Connection	PIP [Push-in connector and pull relief]
Protection class IEC	Safety class I (I)
Glow-wire test	850/30 [Temperature 850 °C, duration 30 s]
Flammability mark	For mounting on normally flammable surfaces
CE mark	CE mark
ENEC mark	ENEC mark
UL mark	-
Length	1500 mm
Initial input power	57 W

• Light Technical

Luminous flux tolerance	+/-10%

• Operating and Electrical

Input Voltage	220 to 240 V
Input Frequency	50-60 Hz

• Temperature

Average ambient temperature	+25 °C

• Controls and Dimming

Dimmable	No

• Mechanical and Housing

Housing Material	Polycarbonate
Optic material	Polycarbonate
Optical cover/lens material	Polycarbonate

• 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	6000 lm
Initial LED luminaire efficacy	105 lm/W
Init. Corr. Color Temperature	4000 K
Init. Color Rendering Index	$<gt/>$80
Initial chromaticy	(0.38, 0.38) SDCM $<lt/>$3.5

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- **Over Time Performance (IEC Compliant)**

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

- **Application Conditions**

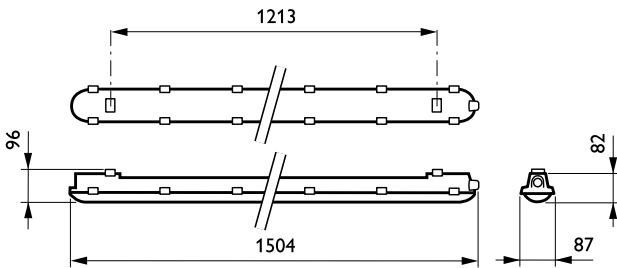|	
Ambient temperature range	-20 to +35 °C

Suitable for random switching — Yes (relates to presence/ movement detection and daylight harvesting)

- **Product Data**

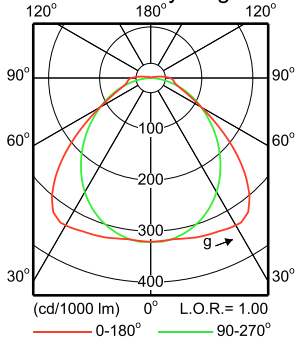|	
Full product code	871829184049700
Order product name	WT120C LED60S/840 PSU L1500
Order code	910500453339
Material Nr. (12NC)	910500453339

Dimensional drawing

Photometric data

WT120C L1500 1xLED60S/840

1 x 6000 lm

Polar intensity diagram

120° 180° 120°
90° 90°
60° 60°
100
200
300
g →
30° 400 30°
0°
(cd/1000 lm) 0° L.O.R.= 1.00
— 0-180° — 90-270°

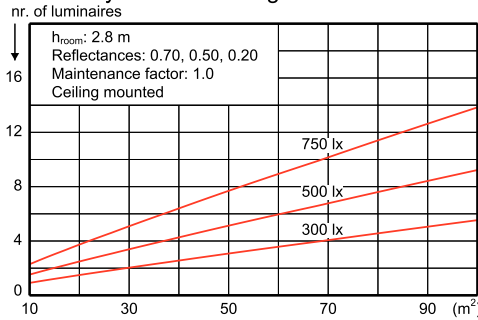Light output ratio 1.00
Service upward 0.03
Service downward 0.97

CIE flux code 48 81 95 97 100

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

UGRcen (4Hx8H, 0.25H) 25
UTE71-121: 0.97D + 0.03T

Quantity estimation diagram

nr. of luminaires
↓
h_{room}: 2.8 m
Reflectances: 0.70, 0.50, 0.20
Maintenance factor: 1.0
Ceiling mounted
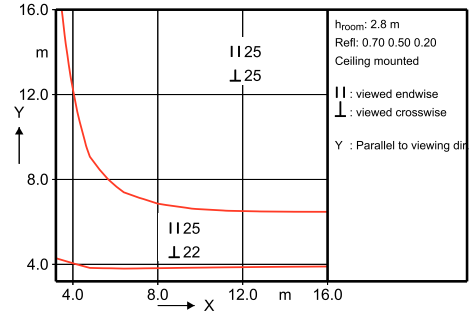
16

12
750 lx
8
500 lx
4
300 lx
0
10 30 50 70 90 (m²)

Utilisation factor table

Room Index k	Reflectances for ceiling, walls and working plane (CIE)									
	0.80 0.80	0.70	0.70	0.70	0.70	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	0.68	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 0.88	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

UGR diagram

16.0
m
Ⅱ25
⊥25
12.0
Y
↑
8.0
Ⅱ25
⊥22
4.0
4.0 8.0 12.0 m 16.0
→ X

h_{room}: 2.8 m
Refl: 0.70 0.50 0.20
Ceiling mounted

Ⅱ : viewed endwise
⊥ : viewed crosswise

Y : Parallel to viewing dir

Luminance Table

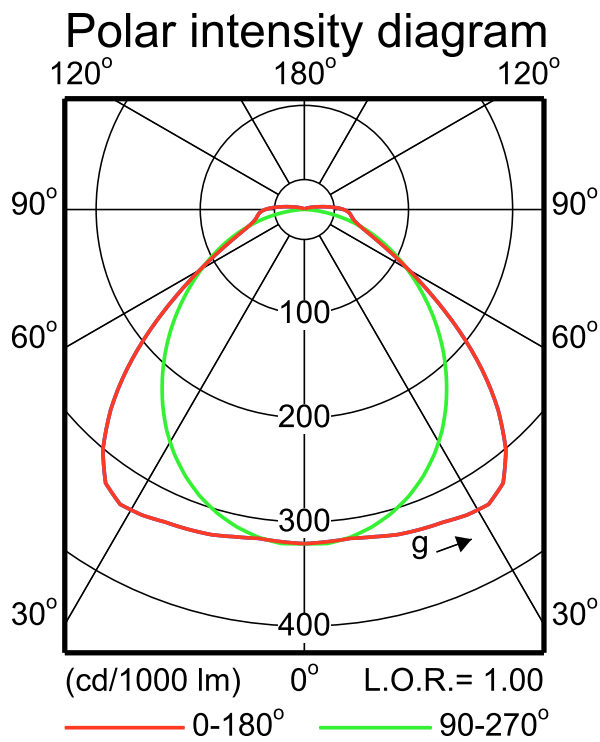| Plane Cone	0.0	45.0	90.0
45.0	14024	16012	13131
50.0	11918	15007	12463
55.0	9590	12906	11774
60.0	7543	10235	11121
65.0	6066	7650	10503
70.0	5130	5697	9848
75.0	4733	4544	8963
80.0	4903	3972	7525
85.0	5522	3937	5197
90.0	6069	4438	7110

(cd/m2)

LVW1837800

2015-09-08

IFGU1_WT120C L1500 1xLED60S840.EPS

Photometric data

WT120C L1500 1xLED60S/840

1 x 6000 lm

Polar intensity diagram

LVW1837800

2015-09-08

IFPC1_WT120C L1500 1xLED60S840.EPS

www.philips.com/lighting

2016, February 3
data subject to change