

# CoreLine Waterproof

## WT120C LED40S/840 PSU L1200



WT120C - LED Module, system flux 4000 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	LED40S [LED Module, system flux 4000 lm]
Light source color	840 [840 neutral white]
Light source replaceable	false [No]
Driver/power unit/transformer	PSU [Power supply unit]
Driver included	true [Yes]
Optical cover/lens type	PC [Polycarbonate]
Dimmable	No [No]
Connection	PIP [Push-in connector and pull relief]
Protection class IEC	CLI [Safety class I]
Ingress protection code	IP65 [Dust penetration-protected, jet-proof]
Mech. impact protection code	IK08 [5 J vandal-protected]
Length	L1200 [1200 mm]
Color	GR [Gray]
Glow-wire test	850/30 [Temperature 850 °C, duration 30 s]
Flammability mark	F [For mounting on normally flammable surfaces]
CE mark	CE [CE mark]

#### • Electrical

Input voltage	220-240 V [220 to 240 V]
Input frequency	50-60 Hz [50 to 60 Hz]

#### • Mechanical

Housing material	PC [Polycarbonate]
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Optic material	PC [Polycarbonate]
Optical cover/lens material	PC [Polycarbonate]

#### • Initial perform. (IEC compliant)

Initial input power	41 W [41 W]
Initial luminous flux	4000 Lm
Initial LED luminaire efficacy	98 Lm/W
Init. Corr. Color Temperature	4000 [4000 K]
Init. Color Rendering Index	>80 [>80]
Initial chromaticity	(0.38, 0.38) SDCM <3.5

#### • Over time perform. (IEC compliant)

Median useful life L90B50	25000 hr
Median useful life L80B50	50000 hr
Driver failure rate at 5000 h	1 %

#### • Application conditions

Average ambient temperature	T25 [+25 °C]
Ambient temperature range	-20 to +35°C [-20 to +35 °C]
Maximum dim level	- [Not applicable]
Suitable for random switching	Yes [Yes (relates to presence/movement detection and daylight harvesting)]

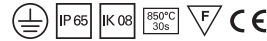


# PHILIPS

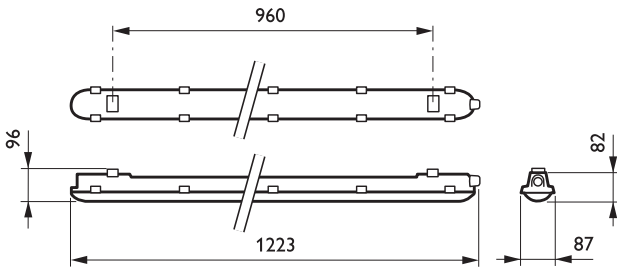
## Product Data

Order code 910500453338  
 Full product code 910500453338  
 Full product name WT120C LED40S/840 PSU L1200  
 Order product name WT120C LED40S/840 PSU L1200  
 Pieces per pack 0  
 Packs per outerbox 1  
 Bar code on 8718291840480  
 outerbox - EAN3

Logistic code(s) - 910500453338  
 12NC  
 Net weight per piece 1.530 kg



## Dimensional drawing



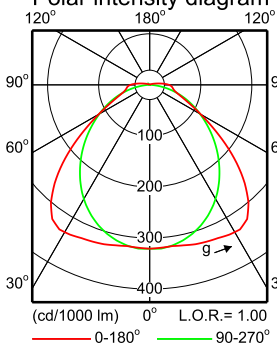
WT120C LED40S/840 PSU L1200

## Photometric data

### WT120C 1xLED40S/840 L1200

1 x 4000 lm

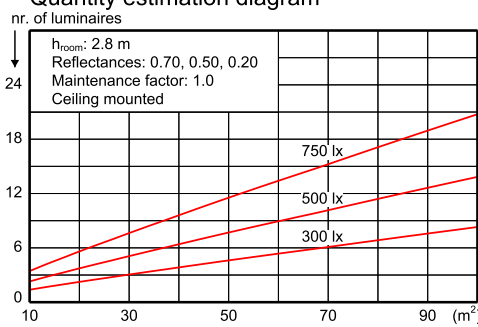
#### Polar intensity diagram



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 (4Hx8H, 0.25H) 24  
 UTE71-121: 0.97D + 0.03T

LWV1837800

#### Quantity estimation diagram

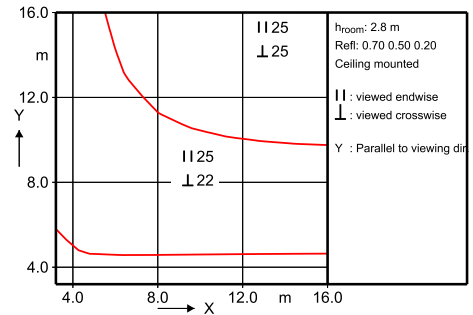


#### Utilisation factor table

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

Ceiling mounted

#### UGR diagram



#### Luminance Table

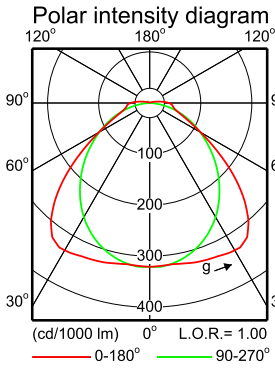
Plane Cone	0.0	45.0	90.0
45.0	11513	13116	10739
50.0	9784	12288	10185
55.0	7873	10564	9613
60.0	6193	8374	9070
65.0	4980	6256	8554
70.0	4212	4655	8003
75.0	3885	3710	7259
80.0	4025	3239	6056
85.0	4533	3205	4114
90.0	4982	3601	4740

(cd/m<sup>2</sup>)

2014-08-01

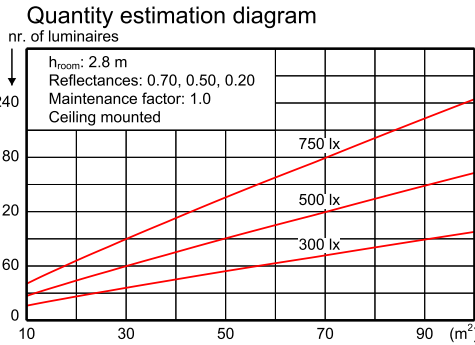
WT120C 1xLED40S/840 EL1 L1200 EM

1 x 340 lm



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  
 UGR<sub>cen</sub> (4Hx8H, 0.25H) 18  
 EN12464-1 65 deg, 3000 cd/m<sup>2</sup>  
 UTE71-121: 0.97D + 0.03T

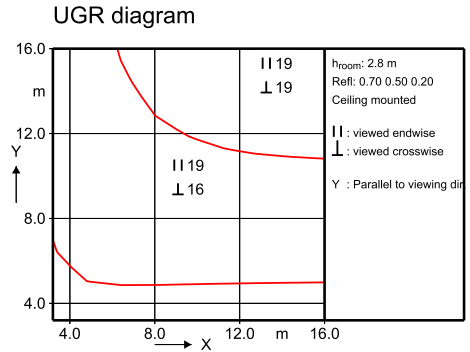
LVW1837800



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	0.00
0.60	0.48	0.46	0.47	0.46	0.45	0.38	0.37	0.32	0.36	0.32	0.30	0.30
0.80	0.59	0.55	0.58	0.56	0.55	0.47	0.46	0.41	0.45	0.41	0.38	0.38
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Ceiling mounted



Luminance Table

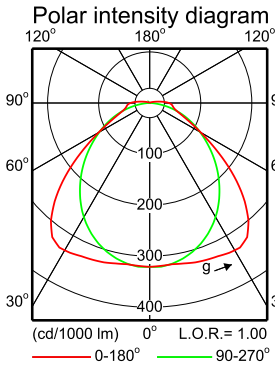
Plane Cone	0.0	45.0	90.0
45.0	1973	2222	1804
50.0	1677	2078	1704
55.0	1350	1783	1601
60.0	1062	1410	1502
65.0	854	1050	1406
70.0	722	779	1301
75.0	666	618	1160
80.0	690	536	938
85.0	777	525	590
90.0	854	581	403

(cd/m<sup>2</sup>)

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WT120C 1xLED40S/840 EL3 L1200 EM

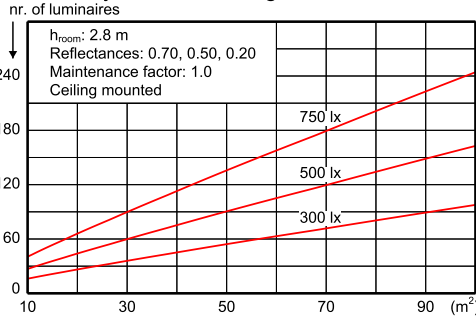
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LVW1837800

Quantity estimation diagram

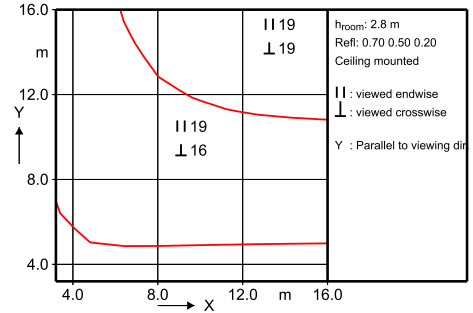


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Ceiling mounted

UGR diagram



Luminance Table

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(cd/m<sup>2</sup>)

2014-08-01

WT120C 1xLED40S/840 EL3 L1200 EM



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2014, November 21  
 data subject to change