



SmartBalance, surface mounted

SM480C LED30S/840 POE ACC-MLO ACL

SmartBalance Surface Mounted, LED module, system flux 3000 lm, 840 neutral white, Luminaire controller with power over Ethernet, Acrylate micro-lens optic clear, ActiLume

Although in many cases the functional lighting performance is key, customers are also keen to apply luminaires that are attractive and/or unobtrusive. Especially in applications where luminaires need to be surface-mounted or suspended, it can be difficult to satisfy both these requirements. SmartBalance is clearly the next step in surface-mounted and suspended luminaires for the specification market. It not only offers increased energy efficiency, but is also visually appealing without being intrusive. And its design helps to minimize clutter on the ceiling and meets all relevant office norms. SmartBalance is also available in recessed and free floor-standing versions.

Warnings and Safety

- The product is IPX0 & as such is not protected against water ingress & as such we strongly recommend that The environment in which The luminaire is to be installed is suitably checked
- If The above advice is not taken and The luminaires are subject to water ingress, Philips / Signify cannot guarantee safe failure & product warranty will become void

Product data

General Information			
Lamp family code	LED30S [LED module, system flux 3000 lm]	Gear	-
Cap-Base	- [-]	Driver included	Yes
Light source replaceable	No	Remarks	*-Per Lighting Europe guidance paper "Evaluating performance of LED based luminaires - January 2018": statistically there
Number of gear units	1 unit		

SmartBalance, surface mounted

	is no relevant difference in lumen maintenance between B50 and for example B10. Therefore, the median useful life (B50) value also represents the B10 value.
Service tag	Yes
Product family code	SM480C [SmartBalance Surface Mounted]
Lighting Technology	LED
Value ladder	Specification
Embedded control	ActiLume
CE mark	Yes
Warranty period	5 years
Flammability mark	For mounting on normally flammable surfaces
ENEC mark	ENEC plus mark
Glow-wire test	Temperature 650 °C, duration 5 s
EU RoHS compliant	Yes

Light Technical

Luminous Flux	3,000 lm
Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	111 lm/W
Color rendering index (CRI)	>80
Number of light sources	1
Beam angle of light source	40 degree(s)
Light source color	840 neutral white
Optic type	-
Optical cover type	Acrylate micro-lens optic clear
Luminaire light beam spread	100°
Unified glare rating CEN	19

Operating and Electrical

Input Voltage	51 to 54 V
Line Frequency	- Hz
Inrush current	5 A
Inrush time	1 ms
Power Consumption	27 W
Connection	RJ45 connector
Cable	-
Number of products on MCB of 16 A type B	20

Temperature

Ambient temperature range	+10 to +40 °C
---------------------------	---------------

Controls and Dimming

Dimmable	Yes
Driver/power unit/transformer	Luminaire controller with power over Ethernet
Control interface	Power over Ethernet

Constant light output	No
-----------------------	----

Mechanical and Housing

Housing Material	Polycarbonate
Reflector material	-
Optic material	-
Optical cover material	Acrylate
Fixation material	-
Housing Color	White
Optical cover finish	Textured
Overall length	1,340 mm
Overall width	240 mm
Overall height	52 mm
Dimensions (Height x Width x Depth)	52 x 240 x 1340 mm

Approval and Application

Ingress protection code	IP40 [Wire-protected]
Mech. impact protection code	IK02 [0.2 J standard]
Protection class IEC	Safety class III

Initial Performance (IEC Compliant)

Luminous flux tolerance	+/-10%
Initial chromaticity	(0.38, 0.38) SDCM <3
Power consumption tolerance	+/-10%

Over Time Performance (IEC Compliant)

Control gear failure rate at median useful life 50000 h	5 %
Lumen maintenance at median useful life* 50000 h	L85

Application Conditions

Performance ambient temperature Tq	25 °C
Maximum dim level	1%
Suitable for random switching	Yes

Product Data

Order product name	SM480C LED30S/840 POE ACC-MLO ACL
Full product name	SM480C LED30S/840 POE ACC-MLO ACL
Full product code	871869906404400
Order code	910504108603
Material Nr. (12NC)	910504108603
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8718699064044
Numerator - Packs per outer box	1
EAN/UPC - Case	8718699064044

SmartBalance, surface mounted

Dimensional drawing

