



# PowerBalance, surface mounted

## SM461V LED34S/840 POE W57L57

PowerBalance Surface-mounted, LED module, system flux 3400 lm, 840 neutral white, Luminaire controller with power over Ethernet

When it comes to lighting an office space with LED luminaires, people are usually willing to invest in sustainability provided the investment pays back. At the same time, the system should comply with office lighting norms to ensure a comfortable working environment. PowerBalance is Philips' most energy-efficient office-norm-compliant LED luminaire. It more than halves energy costs compared to a T5 solution, and the light source has a longer lifetime. This results in significantly lower operational costs, ensuring a payback that meets the needs of the specification market. PowerBalance surface-mounted luminaires are easy to install on ceilings thanks to their intuitive mounting system. PowerBalance is also available in a recessed version.

### Product data

General Information		
Lamp family code	LED34S [LED module, system flux 3400 lm]	
Cap base	- [-]	
Light source replaceable	No	
Number of gear units	Unit	
Driver included	Yes	
Remarks	* - According to the Lighting Europe guidance paper 'Evaluating performance of LED based luminaires – January 2018': statistically there is no relevant difference in lumen maintenance between the B50 and, for example, the B10. Therefore, the median useful life (B50) value also represents the B10 value.	
Product family code	SM461V [PowerBalance Surface-mounted]	
Lighting Technology	LED	
Embedded control	-	
CE mark	Yes	
Warranty period	5 years	
Flammability mark	For mounting on normally flammable surfaces	

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ENEC mark	ENEC plus mark
Glow-wire test	Temperature 850 °C, duration 5 s
EU RoHS compliant	Yes

Light Technical

Luminous Flux	3,400 lm
Correlated Colour Temperature	4000 K
Luminous efficacy (rated) (nom.)	145 lm/W
Colour rendering index (CRI)	≥80
Beam angle of light source	- degree(s)
Light source colour	840 neutral white
Optic type	-
Luminaire light beam spread	120°
Unified Glare Rating (CEN)	16

Operating and Electrical

Input Voltage	51 to 54 V
Line Frequency	- Hz
Inrush current	48 A
Inrush time	1 ms
Power Consumption	23.5 W
Connection	Push-in connector and pull relief
Cable	-
Number of products on MCB of 16 A type B	20

Temperature

Ambient temperature range	+10 to +40 °C
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Controls and Dimming

Dimmable	Yes
Driver/power unit/transformer	Luminaire controller with power over Ethernet
Control interface	Power over Ethernet Plus
Constant light output	No

Mechanical and Housing

Housing material	Steel
Reflector material	Polycarbonate

Optic material	-
Optical cover/lens material	Polycarbonate
Fixation material	-
Housing Colour	White
Optical cover/lens finish	Matte
Overall length	570 mm
Overall width	570 mm
Overall height	85 mm
Dimensions (height x width x depth)	85 x 570 x 570 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%

Application Conditions

Performance ambient temperature Tq	25 °C
Maximum dim level	1%
Suitable for random switching	No

Product Data

Order product name	SM461V LED34S/840 POE W57L57
Full product name	SM461V LED34S/840 POE W57L57
Full EOC	871869906489100
Order code	06489100
Material no. (12 NC)	910504109003
SAP numerator – quantity per pack	1
EAN/UPC – Product/Case	8718699064891
Numerator – packs per outer box	1
EAN/UPC - Case	8718699064891

Dimensional drawing



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