



PowerBalance, surface mounted

SM461V LED40S/840 PSD-T W57L57 ACL

PowerBalance Surface-mounted, LED module, system flux 4000 lm, 840 neutral white, Power supply unit with DALI touch-switch and dimming interface, ActiLume

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	LED40S [LED module, system flux 4000 lm]	maintenance between B50 and for example B10. Therefore, the median useful life (B50) value also represents the B10 value.	
Cap-Base	- [-]	Product family code	SM461V [PowerBalance Surface-mounted]
Light source replaceable	No	Lighting Technology	LED
Number of gear units	1 unit	Glow-wire test	Temperature 850 °C, duration 5 s
Driver included	Yes	Flammability mark	For mounting on normally flammable surfaces
Remarks	*-Per Lighting Europe guidance paper "Evaluating performance of LED based luminaires - January 2018": statistically there is no relevant difference in lumen	CE mark	Yes
		ENEC mark	ENEC plus mark
		Warranty period	5 years

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EU RoHS compliant	Yes
Embedded control	ActiLume

Light Technical

Luminous Flux	4,000 lm
Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	136 lm/W
Color rendering index (CRI)	≥80
Number of light sources	1
Beam angle of light source	- degree(s)
Light source color	840 neutral white
Optic type	-
Luminaire light beam spread	120°
Unified glare rating CEN	16

Operating and Electrical

Input Voltage	220-240 V
Line Frequency	50 to 60 Hz
Inrush current	48 A
Inrush time	1 ms
Power Consumption	29.5 W
Power Factor (Fraction)	0.9
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	Power supply unit with DALI touch-switch and dimming interface
Control interface	DALI
Constant light output	No

Mechanical and Housing

Housing Material	Steel
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Reflector material	Polycarbonate
Optic material	-
Optical cover material	Polycarbonate
Fixation material	-
Housing Color	White
Optical cover 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 I

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	Yes

Product Data

Order product name	SM461V LED40S/840 PSD-T W57L57 ACL
Full product name	SM461V LED40S/840 PSD-T W57L57 ACL
Full product code	871794310379900
Order code	910504093003
Material Nr. (12NC)	910504093003
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8717943103799
Numerator - Packs per outer box	1
EAN/UPC - Case	8717943103799

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Dimensional drawing

