PHILIPS Lighting



PowerBalance surfacemounted – sustainable performance

PowerBalance, surface mounted

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.

Benefits

- Extremely efficient office-norm-compliant LED luminaire
- Good-quality lighting solution for direct replacement of T5 luminaires in most indoor applications
- · Significantly reduces operational costs, resulting in an attractive payback time

Features

- · Easy and intuitive mounting system
- Advanced LED technology
- Available in different shapes and sizes
- Office norm-compliant

Application

- Offices
- Other indoor applications

Specifications

Туре	SM461V	Operating temperature	+10 to +40 °C
Light source	Philips LED module PP	range	
Power	Square version (W57L57), 4000 K	Driver	Built-in
	LED40S: 28.5 W	Mains voltage	220-240 V / 50 Hz
	LED34S: 24 W	Dimming	DALI Dimmable (PSD)
	LED28S: 20.5 W		DALI Dimmable Touch and Dim (PSD-T)
	Rectangular version (W17L169), 4000 K	Controls system input	DALI
	LED40S: 30 W	Options	Emergency lighting (integrated): 1 hour (EL1) or 3 hours (EL3)
	LED34S: 26 W		Controls: Actilume (ACL)
	LED28S: 21 W	Material	Housing: coated steel and plastic
Beam angle	90°		Rim: powder coated steel
Luminous flux	2800, 3400 or 4000 lm (depending on configuration)		Optics: plastic
Correlated Color	3000 or 4000 K	Color	White
Temperature		Optic	Wide beam
Color Rendering Index	> 80	Connection	Push-in connector with pull relief (PIP)
Lumen maintenance at	L90	Maintenance	Optical module sealed for life; no internal cleaning required
median useful life* 50000)	Installation	Square version: individual; locking the luminaire into pre-mounted
h			ceiling plate (delivered with the luminaire)
Control gear failure rate a	at 5%		Rectangular version: individual or in line; clicking the luminaire into
median useful life 50000	h		pre-screwed ceiling brackets
Performance Ambient	+25 °C		Through-wiring possible
Temperature Tq		Accessories	Dedicated suspension sets for square and rectangular versions

Versions



PowerBalance Surface-mounted SM461V luminaire, rectangular version



PowerBalance Surface-mounted SM461V luminaire, square version

PowerBalance Surface-mounted SM461V luminaire with ActiLume, rectangular version



PowerBalance Surface-mounted SM461V luminaire with ActiLume, square version

Product details





Closing mechanism



PowerBalance luminaire, suspended mounting

Electrical connector



Triangular suspension set for rectangular PowerBalance luminaire

PowerBalance luminaire, ceiling-

mounted



In-line mounting using connection pieces



Connection pieces for in-line mounting



Closing mechanism

Product details



Electrical connector



PowerBalance is easy to install thanks to the large opening in the top of the luminaire



Luminaire in mounting position on ceiling; suspension sets available for square and rectangular luminaires



PowerBalance, square shape, suspended



Suspension set for square shape has four wires that are connected to the four corners of the luminaire

Accessories



Suspension set for square version

Ordercode 27584800



Suspension set for rectangular version

Ordercode 27585500

Application Conditions	
Ambient temperature range	+10 to +40 °C
Maximum dim level	1%
Approval and Application	
Mech. impact protection code	IK02
Ingress protection code	IP40
Controls and Dimming	
Dimmable	Yes
General Information	
Beam angle of light source	- °
Cap-Base	-
CE mark	CE mark
Driver included	Yes
Emergency lighting	No
ENEC mark	ENEC plus mark
Flammability mark	F
Glow-wire test	850/5
Light source replaceable	No
Number of gear units	1 unit
Number of light sources	1
Optic type	No
Product Family Code	SM461V
UL mark	-
Initial Performance (IEC Compliant)	
Initial chromaticy	(0.38, 0.38) SDCM
	<3
Init. Corr. Color Temperature	4000 K
Init. Color Rendering Index	≥80
Luminous flux tolerance	+/-10%
Mechanical and Housing	
Color	White

Operating and Electrical

Order Code	Full Product Name	Input Voltage	Order Code	Full Product Name	Input Voltage
27602900	SM461V LED34S/840 PSD W17L169	220-240 V	10315700	SM461V LED28S/840 PSD W57L57 ACL	220-240 V
27603600	SM461V LED40S/840 PSD W17L169	220-240 V	10317100	SM461V LED34S/840 PSD W57L57 ACL	220-240 V
10321800	SM461V LED28S/840 PSD W17L169	220-240 V	10319500	SM461V LED40S/840 PSD W57L57 ACL	220-240 V
27604300	SM461V LED40S/840 PSD W57L57	220-240 V	10322500	SM461V LED28S/840 PSD W17L169 ACL	220-240 V
27605000	SM461V LED34S/840 PSD W57L57	220-240 V	10324900	SM461V LED34S/840 PSD W17L169 ACL	220-240 V
10314000	SM461V LED28S/840 PSD W57L57	220-240 V	10326300	SM461V LED40S/840 PSD W17L169 ACL	220-240 V
06489100	SM461V LED34S/840 POE W57L57	51 to 54 V			

General Information

Application Conditions

- TF		
Order Code	Full Product Name	Suitable for random switching
27602900	SM461V LED34S/840 PSD W17L169	No
27603600	SM461V LED40S/840 PSD W17L169	No
10321800	SM461V LED28S/840 PSD W17L169	No
27604300	SM461V LED40S/840 PSD W57L57	No
27605000	SM461V LED34S/840 PSD W57L57	No
10314000	SM461V LED28S/840 PSD W57L57	No
06489100	SM461V LED34S/840 POE W57L57	No
10315700	SM461V LED28S/840 PSD W57L57 ACL	Yes (relates to presence/ movement detection and daylight
		harvesting)
10317100	SM461V LED34S/840 PSD W57L57 ACL	Yes (relates to presence/ movement detection and daylight
		harvesting)
10319500	SM461V LED40S/840 PSD W57L57 ACL	Yes (relates to presence/ movement detection and daylight
		harvesting)
10322500	SM461V LED28S/840 PSD W17L169 ACL	Yes (relates to presence/ movement detection and daylight
		harvesting)
10324900	SM461V LED34S/840 PSD W17L169 ACL	Yes (relates to presence/ movement detection and daylight
		harvesting)
10326300	SM461V LED40S/840 PSD W17L169 ACL	Yes (relates to presence/ movement detection and daylight
		harvesting)

			Lamp family	Embedded
Order Code	Full Product Name	Protection class IEC	code	control
27602900	SM461V LED34S/840 PSD W17L169	Safety class I (I)	LED34S	No
	W17L169			
27603600	SM461V LED40S/840 PSD W17L169	Safety class I (I)	LED40S	No
10321800	SM461V LED28S/840 PSD W17L169	Safety class I (I)	LED28S	No
27604300	SM461V LED40S/840 PSD W57L57	Safety class I (I)	LED40S	No
27605000	SM461V LED34S/840 PSD W57L57	Safety class I (I)	LED34S	No
10314000	SM461V LED28S/840 PSD W57L57	Safety class I (I)	LED28S	No
06489100	SM461V LED34S/840 POE W57L57	Safety class III (III)	LED34S	No

		Lamp family	Embedded
Full Product Name	Protection class IEC	code	control
SM461V LED28S/840 PSD	Safety class I (I)	LED28S	ACL
W57L57 ACL			
SM461V LED34S/840 PSD	Safety class I (I)	LED34S	ACL
W57L57 ACL			
SM461V LED40S/840 PSD	Safety class I (I)	LED40S	ACL
W57L57 ACL			
SM461V LED28S/840 PSD	Safety class I (I)	LED28S	ACL
W17L169 ACL			
SM461V LED34S/840 PSD	Safety class I (I)	LED34S	ACL
W17L169 ACL			
SM461V LED40S/840 PSD	Safety class I (I)	LED40S	ACL
W17L169 ACL			
	SM461V LED28S/840 PSD W57L57 ACL SM461V LED34S/840 PSD W57L57 ACL SM461V LED40S/840 PSD W57L57 ACL SM461V LED28S/840 PSD W17L169 ACL SM461V LED34S/840 PSD W17L169 ACL SM461V LED40S/840 PSD	SM461V LED28S/840 PSD Safety class I (I) W57L57 ACL SM461V LED34S/840 PSD Safety class I (I) W57L57 ACL SM461V LED40S/840 PSD Safety class I (I) W57L57 ACL SM461V LED28S/840 PSD Safety class I (I) W17L169 ACL SM461V LED34S/840 PSD Safety class I (I) W17L169 ACL SM461V LED40S/840 PSD Safety class I (I)	SM461V LED28S/840 PSD Safety class I (I) LED28S W57L57 ACL SM461V LED34S/840 PSD Safety class I (I) LED34S W57L57 ACL SM461V LED40S/840 PSD Safety class I (I) LED40S W57L57 ACL SM461V LED28S/840 PSD Safety class I (I) LED28S W17L169 ACL SM461V LED34S/840 PSD Safety class I (I) LED34S W17L169 ACL SM461V LED40S/840 PSD Safety class I (I) LED34S

Initial Performance (IEC Compliant)

		Initial LED	Initial luminous	Initial input
Order Code	Full Product Name	luminaire efficacy	flux	power
27602900	SM461V LED34S/840 PSD	131 lm/W	3400 lm	26 W
	W17L169			
27603600	SM461V LED40S/840 PSD	133 lm/W	4000 lm	30 W
	W17L169			
10321800	SM461V LED28S/840 PSD	133 lm/W	2800 lm	21 W
	W17L169			
27604300	SM461V LED40S/840 PSD	140 lm/W	4000 lm	28.5 W
	W57L57			
27605000	SM461V LED34S/840 PSD	142 lm/W	3400 lm	24 W
	W57L57			
10314000	SM461V LED28S/840 PSD	137 lm/W	2800 lm	20.5 W
	W57L57			
06489100	SM461V LED34S/840 POE	145 lm/W	3400 lm	23.5 W
	W57L57			

		Initial LED	Initial luminous	Initial input
Order Code	Full Product Name	luminaire efficacy	flux	power
10315700	SM461V LED28S/840 PSD	130 lm/W	2800 lm	21.5 W
	W57L57 ACL			
10317100	SM461V LED34S/840 PSD	136 lm/W	3400 lm	25 W
	W57L57 ACL			
10319500	SM461V LED40S/840 PSD	136 lm/W	4000 lm	29.5 W
	W57L57 ACL			
10322500	SM461V LED28S/840 PSD	127 lm/W	2800 lm	22 W
	W17L169 ACL			
10324900	SM461V LED34S/840 PSD	126 lm/W	3400 lm	27 W
	W17L169 ACL			
10326300	SM461V LED40S/840 PSD	129 lm/W	4000 lm	31 W
	W17L169 ACL			

Mechanical and Housing

Order Code	Full Product Name	Geometry
27602900	SM461V LED34S/840 PSD W17L169	W17L169
27603600	SM461V LED40S/840 PSD W17L169	W17L169
10321800	SM461V LED28S/840 PSD W17L169	W17L169
27604300	SM461V LED40S/840 PSD W57L57	W57L57
27605000	SM461V LED34S/840 PSD W57L57	W57L57
10314000	SM461V LED28S/840 PSD W57L57	W57L57
06489100	SM461V LED34S/840 POE W57L57	W57L57

Order Code	Full Product Name	Geometry
10315700	SM461V LED28S/840 PSD W57L57 ACL	W57L57
10317100	SM461V LED34S/840 PSD W57L57 ACL	W57L57
10319500	SM461V LED40S/840 PSD W57L57 ACL	W57L57
10322500	SM461V LED28S/840 PSD W17L169 ACL	W17L169
10324900	SM461V LED34S/840 PSD W17L169 ACL	W17L169
10326300	SM461V LED40S/840 PSD W17L169 ACL	W17L169



www.lighting.philips.com 2018, October 16 - data subject to change