PHILIPS Lighting



PowerBalance gen2

RC461B LED34S/940 POE W60L60 VPC IA3

PowerBalance gen2, 24 W, 3400 lm, 4000 K, Power over Ethernet, Interact Ready

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 gen2 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. The gen2 architecture enables a range of highly versatile modular and semi-modular luminaires. These luminaires can be easily mounted in ceilings with exposed T-bar and concealed T-bar, as well as plaster ceilings and bandraster-type ceilings. PowerBalance is also available in a surface-mounted version.

Warnings and Safety

- The product is IP20 and, as such, is not protected against water ingress. Therefore we strongly recommend that the environment in which the luminaire is to be installed should be suitably checked
- If the advice above is not taken and the luminaires are subject to water ingress, Philips / Signify cannot guarantee safe failure and the product warranty will become void

Product data

General Information	
Lamp family code	LED34S [LED module, system flux 3400
	lm]
Light source replaceable	No
Number of gear units	1 unit
Gear	-
Driver included	Yes

Service tag	Yes
Product family code	RC461B [PowerBalance recessed]
Connectivity	Interact Ready
Lighting Technology	LED
Value ladder	Specification
Embedded control	ActiLume
CE mark	Yes

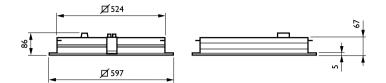
PowerBalance gen2

Warranty period	5 years
Flammability mark	For mounting on normally flammable
	surfaces
ENEC mark	ENEC mark
Glow-wire test	Temperature 650 °C, duration 30 s
EU RoHS compliant	Yes
Light Technical	
Luminous Flux	3,400 lm
Saturated Red (R9)	>50
Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	142 lm/W
Color rendering index (CRI)	≥90
Number of light sources	1
Beam angle of light source	120 degree(s)
Light source color	940 neutral white
Optic type	Wide beam office compliant
Optical cover type	Polycarbonate bowl/cover
Luminaire light beam spread	86°
Unified glare rating CEN	16
Operating and Electrical	
Input Voltage	51 to 54 V
Line Frequency	50 to 60 Hz
Inrush current	21 A
Inrush time	0.28 ms
Power Consumption	24 W
Power Factor (Fraction)	0.9
Connection	RJ45 connector, male
Cable	-
Number of products on MCB of 16 A type B	24
UL Type	Type B - bypass the ballast
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	Steel
Reflector material	Polycarbonate
Optic material	Polycarbonate
Optical cover material	Polycarbonate
Fixation material	-
	- White RAL 9003
Housing Color	White RAL 9003

Optical cover finish	Matte
· Overall length	597 mm
Overall width	597 mm
Overall height	86 mm
Dimensions (Height x Width x Depth)	86 x 597 x 597 mm
Approval and Application	
Ingress protection code	IP20/40 [Finger-protected, Emitting
	surface]
Mech. impact protection code	IK02 [0.2 J standard]
Sustainability rating	Lighting for circularity Lighting for
	wellbeing
Protection class IEC	Safety class III
Photobiological risk	Photobiological risk group 1@200mm to
	EN62778
Initial Performance (IEC Compliant)	
Luminous flux tolerance	+/-10%
Initial chromaticity	(0.38, 0.38) SDCM <3
Power consumption tolerance	+/-10%
Over Time Performance (IEC Complia	
Control gear failure rate at median useful	5 %
life 50000 h	
Lumen maintenance at median useful life*	L90
50000 h	
Lumen maintenance at median useful life*	L80
100000 h	
Analisation Conditions	
Application Conditions	25.45
Performance ambient temperature Tq	25 °C
Maximum dim level	1%
Suitable for random switching	Yes (relates to presence/ movement
	detection and daylight harvesting)
Product Data	
Order product name	RC461B LED34S/940 POE W60L60 VPC
	IA3
Full product name	RC461B LED34S/940 POE W60L60 VPC
	IA3
Full product code	871869996450400
Order code	96450400
Material Nr. (12NC)	910505100244
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8718699964504
Numerator - Packs per outer box	1
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EAN/UPC - Case	8718699964504

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Dimensional drawing





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