



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 bandrastrer-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	-
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 Compliant)

Control gear failure rate at median useful life 50000 h	5 %
Lumen maintenance at median useful life* 50000 h	L90
Lumen maintenance at median useful life* 100000 h	L80

Application Conditions

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
EAN/UPC - Case	8718699964504

PowerBalance gen2

Dimensional drawing

