



# PowerBalance gen2

## RC461B G2 LED34S/840 POE W30L120 VPC ACL

PowerBalance gen2, 24.5 W, 3400 lm, 4000 K, 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 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		Remarks
Lamp family code	LED34S [LED module, system flux 3400 lm]	*-Per Lighting Europe guidance paper "Evaluating performance of LED based luminaires - January 2018": statistically there is no relevant difference in lumen maintenance between B50 and for example B10. Therefore, the median useful life (B50) value also represents the B10 value.
Cap-Base	- [-]	
Light source replaceable	No	
Number of gear units	1 unit	
Gear	-	
Driver included	Yes	

## PowerBalance gen2

Service tag	Yes
Product family code	RC461B [PowerBalance recessed]
Lighting Technology	LED
Value ladder	Specification
Embedded control	ActiLume
CE mark	Yes
Warranty period	5 years
Flammability mark	For mounting on normally flammable surfaces
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 Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	139 lm/W
Color rendering index (CRI)	≥80
Number of light sources	1
Light source color	840 neutral white
Optic type	-
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	- Hz
Inrush current	5 A
Inrush time	1 ms
Power Consumption	24.5 W
Connection	RJ45 connector, male
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
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 RAL 9003
Optical cover finish	Matte
Overall length	1,197 mm
Overall width	297 mm
Overall height	79 mm
Dimensions (Height x Width x Depth)	79 x 297 x 1197 mm

### Approval and Application

Ingress protection code	IP20 [Finger-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%

### 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

### Application Conditions

Performance ambient temperature Tq	25 °C
Maximum dim level	1%
Suitable for random switching	Yes

### Product Data

Order product name	RC461B G2 LED34S/840 POE W30L120 VPC ACL
Full product name	RC461B G2 LED34S/840 POE W30L120 VPC ACL
Full product code	871869687578000
Order code	87578000
Material Nr. (12NC)	910502045303
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8718696875780
Numerator - Packs per outer box	1
EAN/UPC - Case	8718696875780

## PowerBalance gen2

### Dimensional drawing

