# **PHILIPS** Lighting



# PowerBalance gen2

# RC461B G2 LED34S/840 POE W30L120 VPC

PowerBalance gen2, 23.5 W, 3400 lm, 4000 K, Power over Ethernet

When it comes to lighting office spaces with LED luminaires, businesses are willing to invest in sustainability, provided they get a payback on their investment. At the same time, the system should comply with office lighting norms to ensure a comfortable working environment. Philips PowerBalance Gen2 is our most energyefficient, office-compliant LED luminaire. Designed for circularity and enhanced wellbeing, this office luminaire also promises future-proof connectivity. State-ofthe-art efficacy (at CRI <gt/>90), upgradability features, a long lifetime, repairability, and design for recyclability make PowerBalance Gen2 a true 'green choice'. One that also delivers significantly lower operational costs to ensure an attractive payback that meets the needs of businesses and the specification market. The Gen2 architecture in the latest PowerBalance range has enabled us to create a range of highly-versatile modular and semi-modular luminaires. These LED luminaires can be easily mounted in ceilings with an exposed T-bar or concealed T-bar, as well as plaster ceilings and bandraster-type ceilings. PowerBalance is a solution with superior lighting specifications combined with a best-in-class connectivity designed for Circularity & enhanced Wellbeing using Interact Pro - all with a sustainable approach to high-performance office lighting.

#### 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**

## PowerBalance gen2

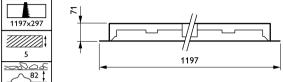
General Information	
Lamp family code	LED34S [LED module, system flux 3400 lm]
Cap-Base	- [-]
Light source replaceable	No
Number of gear units	1 unit
Gear	-
Driver included	Yes
Remarks	*-Per Lighting Europe guidance paper
	"Evaluating performance of LED based
	luminaires - January 2018": statistically 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.
Service tag	Yes
Product family code	RC461B [PowerBalance recessed]
Lighting Technology	LED
Value ladder	Specification
Embedded control	-
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
Liebt Taskairal	
Light Technical	2.400 lm
	3,400 lm
Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom) Color rendering index (CRI)	145 lm/W ≥80
,	1
Number of light sources	840 neutral white
Light source color	· · · · · · · · · · · · · · · · · · ·
Optic type	- Belycarbanata boy//cover
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	23.5 W
Connection	RJ45 connector, male
Cable	-
Number of products on MCB of 16 A type	20
B	20

Temperature	
Ambient temperature range	+10 to +40 °C
Controls and Dimming	
Dimmable	Yes
Driver/power unit/transformer	Luminaire controller with power over
Siver, power and, transformer	Ethernet
Control interface	Power over Ethernet
Constant light output	No
Mechanical and Housing	
Housing Material	Steel
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 Compl	iant)
Control gear failure rate at median useful	5 %
life 50000 h	
Lumen maintenance at median useful	
life* 50000 h	L90
	L90
	L90
Application Conditions	L90
Application Conditions Performance ambient temperature Tq	L90 25 °C
Performance ambient temperature Tq	25 °C
Performance ambient temperature Tq Maximum dim level	25 °C 1%
Performance ambient temperature Tq Maximum dim level	25 °C 1%
Performance ambient temperature Tq Maximum dim level Suitable for random switching	25 °C 1% No
Performance ambient temperature Tq Maximum dim level Suitable for random switching Product Data	25 °C 1% No RC461B G2 LED34S/840 POE W30L120 VP
Performance ambient temperature Tq Maximum dim level Suitable for random switching Product Data Order product name	25 °C 1% No RC461B G2 LED34S/840 POE W30L120 VP4
Performance ambient temperature Tq Maximum dim level Suitable for random switching Product Data Order product name Full product name	25 °C 1% No RC461B G2 LED345/840 POE W30L120 VPG RC461B G2 LED345/840 POE W30L120 VPG
Performance ambient temperature Tq Maximum dim level Suitable for random switching Product Data Order product name Full product name Full product code	25 °C 1% No RC461B G2 LED345/840 POE W30L120 VP4 RC461B G2 LED345/840 POE W30L120 VP4 871869687581000
Performance ambient temperature Tq Maximum dim level Suitable for random switching Product Data Order product name Full product name Full product code Order code	25 °C 1% No RC461B G2 LED345/840 POE W30L120 VP4 RC461B G2 LED345/840 POE W30L120 VP4 871869687581000 910502045603

### PowerBalance gen2

Numerator - Packs per outer box	1
EAN/UPC - Case	8718696875810

#### Dimensional drawing





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