



PowerBalance gen2

RC461B G2 LED34S/840 POE W30L172 BCV ACL

PowerBalance gen2, 24.5 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

Datasheet, 2023, December 4 data subject to change

PowerBalance gen2

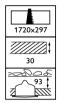
		- 	
General Information		Controls and Dimming	
Cap-Base	- [-]	Dimmable	Yes
Light source replaceable	No	Driver/power unit/transformer	Luminaire controller with power over
Number of gear units	1 unit		Ethernet
Gear	-	Control interface	Power over Ethernet
Driver included	Yes	Constant light output	No
Remarks	*-Per Lighting Europe guidance paper		
	"Evaluating performance of LED based	Mechanical and Housing	
	luminaires - January 2018": statistically there	Housing Material	Steel
	is no relevant difference in lumen	Reflector material	Polycarbonate
	maintenance between B50 and for example	Optic material	_
	B10. Therefore, the median useful life (B50)	Optical cover material	Polycarbonate
	value also represents the B10 value.	Fixation material	-
Product family code	RC461B [PowerBalance recessed]	Housing Color	White
Lighting Technology	LED	Optical cover finish	Matte
Value ladder	Specification	Overall length	1,247 mm
Embedded control	ActiLume	Overall width	310 mm
CE mark	Yes	Overall height	79 mm
Warranty period	5 years	Dimensions (Height x Width x Depth)	79 x 310 x 1247 mm
Flammability mark	For mounting on normally flammable		
	surfaces	Approval and Application	
ENEC mark	ENEC plus mark	Ingress protection code	IP20 [Finger-protected]
Glow-wire test	Temperature 850 °C, duration 5 s	Mech. impact protection code	IK02 [0.2 J standard]
EU RoHS compliant	Yes	Protection class IEC	Safety class III
Light Technical		Initial Performance (IEC Compliant)	
Luminous Flux	3,400 lm	Luminous flux tolerance	+/-10%
Correlated Color Temperature (Nom)	4000 K	Initial chromaticity	(0.38, 0.38) SDCM <3
Luminous Efficacy (rated) (Nom)	139 lm/W	Power consumption tolerance	+/-10%
Color rendering index (CRI)	≥80		
Number of light sources	1	Over Time Performance (IEC Compl	iant)
Light source color	840 neutral white	Control gear failure rate at median useful	5 %
Optic type	<u>-</u>	life 50000 h	
Luminaire light beam spread	86°	Lumen maintenance at median useful	L90
Unified glare rating CEN	16	life* 50000 h	
Operating and Electrical		Application Conditions	
Input Voltage	51 to 54 V	Performance ambient temperature Tq	25 ℃
Line Frequency	- Hz	Maximum dim level	1%
End CLO power consumption	- W	Suitable for random switching	Yes
Inrush current	5 A		
Inrush time	1 ms	Product Data	
Power Consumption	24.5 W	Order product name	RC461B G2 LED34S/840 POE W30L172 BCV
Connection	RJ45 connector, male		ACL
Cable	<u>-</u>	Full product name	RC461B G2 LED34S/840 POE W30L172 BCV
Number of products on MCB of 16 A type	20		ACL
В		Full product code	871869687580300
		Order code	910502045503
Temperature		Material Nr. (12NC)	910502045503
Ambient temperature range	+10 to +40 °C	Numerator - Quantity Per Pack	1
		EAN/UPC - Product/Case	8718696875803
		Numerator - Packs per outer box	1

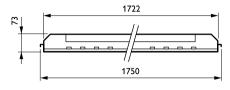
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EAN/UPC - Case

8718696875803

Dimensional drawing







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