



PowerBalance gen2

RC461B 40S/840 PSD W30L120 VPC UE

PowerBalance gen2, UltraEfficient, 23 W, 300x1200 mm, VPC, 4000 lm, 4000 K, CRI>80, DALI, UGR16

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 >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, 2024, November 5 data subject to change

PowerBalance gen2

General Information	
Light source replaceable	No
Number of gear units	1 unit
Driver included	Yes
Service tag	Yes
Lighting Technology	LED
Value ladder	Specification
Serviceability class	Class B, luminaire is equipped with some
-	serviceable parts (when applicable):
	driver, control units, surge protection
	device, front cover and mechanical parts
Warranty period	5 years
Sustainability rating	Lighting for circularity Lighting for
	wellbeing
Light Technical	
Luminous Flux	4,000 lm
Saturated Red (R9)	<50
Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	174 lm/W
Color rendering index (CRI)	≥80
Beam angle of light source	120 degree(s)
Light source color	840 neutral white
Optic type	Wide beam office compliant
Luminaire light beam spread	86°
Unified glare rating CEN	16
Operating and Electrical	
Line Frequency	50 to 60 Hz
Inrush current	23.1 A
Inrush time	0.221 ms
Power Consumption	23 W
Power Factor (Fraction)	0.9
Connection	Push-in connector and pull relief
Cable	-
Number of products on MCB of 16 A type B	22
Suitable for random switching	No
Protection class IEC	Safety class I
Total harmonic distortion	20 %
Controls and Dimming	
Dimmable	Yes
Driver/power unit/transformer	Power supply unit with DALI interface
Control interface	DALI
Constant light output	No
DALI Standard	DALI-2™
Maximum dim level	1%
Embedded control	-
Mechanical and Housing	
Housing Material	Steel

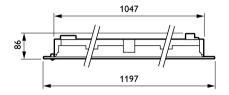
Optic material	Polycarbonate	
Optical cover material	Polycarbonate	
Fixation material	-	
Housing Color	White RAL 9003	
Optical cover finish	Opal	
Reflector Finish	White reflector	
Overall length	1,197 mm	
Overall width	297 mm	
Overall height	72 mm	
Dimensions (Height x Width x Depth)	72 x 297 x 1197 mm	
Compatible ceiling or ceiling installation	Visible profile ceiling version	
accessory type		
Optical finish	Opal	
Ingress protection code	IP20/40 [Finger-protected, Emitting	
	surface]	
Mech. impact protection code	IK03 [0.35 J reinforced]	
Explosion hazard class	-	
Mounting	Recessed	
Net Weight (Piece)	4.700 kg	
Net Weight (Fiece)	4.700 Ng	
Emergency Operation		
	No	
Central Emergency	NO	
Emergency lighting		
Approval and Application		
Approval and Application	Townserture CEO °C duration 20 c	
Glow-wire test	Temperature 650 °C, duration 30 s	
Flammability mark	For mounting on normally flammable surfaces	
CE mark	Yes	
ENEC mark	ENEC mark	
Photobiological risk	Photobiological risk group 1 @200mm to	
FUR-US considerat	EN62778	
EU RoHS compliant	Yes	
Performance ambient temperature Tq	25 ℃	
Flickering value (PstLM) - Flickering value as	1	
per EN 61000-3-3		
Stroboscopic effect visibility measure (SVM)	0.4	
Ambient temperature range	+10 to +35 °C	
Initial Performance (IEC Compliant)		
Luminous flux tolerance	+/-10%	
Initial chromaticity	(0.38, 0.38) SDCM ≤3	
Power consumption tolerance	+/-10%	
Standard Deviation of Colour Matching	SDCM≤3	
(McAdam ellipse)		
Over Time Performance (IEC Compliant)		
Control gear failure rate at median useful life	2.5 %	
50000 h		
Control gear failure rate at median useful life	5 %	
100000 h		

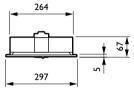
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Lumen maintenance at median useful life*	L90
50000 h	
Lumen maintenance at median useful life*	L80
100000 h	
Product Data	
Order product name	RC461B 40S/840 PSD W30L120 VPC UE
Full product name	RC461B 40S/840 PSD W30L120 VPC UE
Full product code	872016910935300

Order code	910505103631
Material Nr. (12NC)	910505103631
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8720169109353
Numerator - Packs per outer box	1
EAN/UPC - Case	8720169109353
Product family code	RC461B [PowerBalance recessed]

Dimensional drawing







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