



# PowerBalance gen2

## RC463B 28S/940 PSD W62L62 VPC

PowerBalance gen2, 20 W, 620x620 mm, VPC, 2800 lm, 4000 K, CRI≥90, 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, 2025, January 20 data subject to change

## PowerBalance gen2

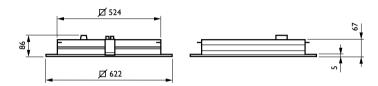
General Information		Reflector material	Polycarbonate
Light source replaceable	No	Optic material	Polycarbonate
Number of gear units	1 unit	Optical cover material	Polycarbonate
Driver included	Yes	Fixation material	-
Service tag	Yes	Housing Color	White RAL 9003
Lighting Technology	LED	Optical cover finish	Opal
Value ladder	Specification	Reflector Finish	White reflector
Serviceability class	Class B, luminaire is equipped with some	Overall length	622 mm
	serviceable parts (when applicable):	Overall width	622 mm
	driver, control units, surge protection	Overall height	72 mm
	device, front cover and mechanical parts	Dimensions (Height x Width x Depth)	72 x 622 x 622 mm
Warranty period	5 years	Compatible ceiling or ceiling installation	Visible profile ceiling version
Sustainability rating	Lighting for circularity Lighting for	accessory type	
	wellbeing	Optical finish	Opal
		Ingress protection code	IP20/40 [Finger-protected, Emitting
Light Technical			surface]
Luminous Flux	2,800 lm	Mech. impact protection code	IKO3 [0.35 J reinforced]
Saturated Red (R9)	>50	Explosion hazard class	-
Correlated Color Temperature (Nom)	4000 K	Mounting	Recessed
Luminous Efficacy (rated) (Nom)	141 lm/W	Net Weight (Piece)	4.900 kg
Color rendering index (CRI)	≥90		
Beam angle of light source	120 degree(s)	Emergency Operation	
Light source color	940 neutral white	Central Emergency	No
Optic type	Wide beam office compliant	Emergency lighting	-
Luminaire light beam spread	86°		
Unified glare rating CEN	16	Approval and Application	
		Glow-wire test	Temperature 650 °C, duration 30 s
Operating and Electrical		Flammability mark	For mounting on normally flammable
Line Frequency	50 to 60 Hz		surfaces
Inrush current	23.1 A	CE mark	Yes
Inrush time	0.221 ms	ENEC mark	ENEC mark
Power Consumption	20 W	Photobiological risk	Photobiological risk group 1 @200mm to
Power Factor (Fraction)	0.9		EN62778
Connection	Push-in connector and pull relief	EU RoHS compliant	Yes
Cable		Performance ambient temperature Tq	25 ℃
Number of products on MCB of 16 A type B	22	Flickering value (PstLM) - Flickering value as	1
UL Type	Type B - bypass the ballast	per EN 61000-3-3	
Suitable for random switching	No	Stroboscopic effect visibility measure (SVM)	0.4
Protection class IEC	Safety class I	Ambient temperature range	+10 to +35 °C
Total harmonic distortion	20 %		
		Initial Performance (IEC Compliant)	
Controls and Dimming		Luminous flux tolerance	+/-10%
Dimmable	Yes	Initial chromaticity	(0.38, 0.38) SDCM ≤3
Driver/power unit/transformer	Power supply unit with DALI interface	Power consumption tolerance	+/-10%
Control interface	DALI	Standard Deviation of Colour Matching	SDCM≤3
Constant light output	No	(McAdam ellipse)	
DALI Standard	DALI-2™		
Maximum dim level	1%	Over Time Performance (IEC Complian	·
Embedded control	-	Control gear failure rate at median useful	2.5 %
		life 50000 h	
Mechanical and Housing		Control gear failure rate at median useful	5 %
Housing Material	Steel	life 100000 h	

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Lumen maintenance at median useful life $^{\ast}$	L90
50000 h	
Lumen maintenance at median useful life*	L80
100000 h	
Product Data	
Order product name	RC463B 28S/940 PSD W62L62 VPC
Full product name	RC463B 28S/940 PSD W62L62 VPC
Full product code	871869996604100

Order code	910505100416	
Material Nr. (12NC)	910505100416	
Numerator - Quantity Per Pack	1	
EAN/UPC - Product/Case	8718699966041	
Numerator - Packs per outer box	1	
EAN/UPC - Case	8718699966041	
Product family code	RC463B [PowerBalance recessed]	

### Dimensional drawing





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