# **PHILIPS** Lighting



# PowerBalance gen2

## RC463B 34S/940 PSD W62L62 VPC W3W2

PowerBalance gen2, 24 W, 620x620 mm, VPC, 3400 lm, 4000 K, CRI≥90, DALI, UGR16, Wieland

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**

### PowerBalance gen2

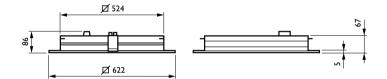
General Information		
	LED245 ILED modulo, system flux 2400	
Lamp family code	LED34S [LED module, system flux 3400	
	lm]	
Light source replaceable	No	
Number of gear units	1 unit	
Gear	-	
Driver included	Yes	
Service tag	Yes	
Lighting Technology	LED	
Value ladder	Specification	
Serviceability class	Class 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 Tochnicol		
Light Technical	2.400 lm	
Luminous Flux	3,400 lm	
Saturated Red (R9)	>50	
Correlated Color Temperature (Nom)	4000 K	
Luminous Efficacy (rated) (Nom)	142 lm/W	
Color rendering index (CRI)	≥90	
Number of light sources	1	
Beam angle of light source	120 degree(s)	
Light source color	940 neutral white	
Optic type	Wide beam office compliant	
Luminaire light beam spread	86°	
Unified glare rating CEN	16	
Operating and Electrical	50.00.00	
Line Frequency	50 to 60 Hz	
Inrush current	23.1 A	
Inrush time	0.221 ms	
Power Consumption	24 W	
Power Factor (Fraction)	0.9	
Connection	Plug-in connector 3-pole Wieland/Adels	
	compatible and 2-pole control signal for	
	light regulation	
Cable	-	
Number of products on MCB of 16 A type B	22	
UL Type	Type B - bypass the ballast	
Suitable for random switching	No	
Protection class IEC	Safety class I	
Total harmonic distortion	20 %	
Wiring		
Connector Type	Wieland	
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	170	
	-	
Mechanical and Housing		
Housing Material	Steel	
Reflector material	Polycarbonate	
Optic material	Polycarbonate	
Optical cover material	Polycarbonate	
Fixation material	-	
Housing Color	White RAL 9003	
Optical cover finish	Opal	
Reflector Finish	White reflector	
Overall length	622 mm	
Overall width	622 mm	
Overall height	86 mm	
Dimensions (Height x Width x Depth)	86 x 622 x 622 mm	
Compatible ceiling or ceiling installation	Visible profile ceiling version	
accessory type	visible prome centing version	
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	
Optical cover type	Polycarbonate bowl/cover	
Net Weight (Piece)	4.900 kg	
·····		
Emergency Operation		
Central Emergency	No	
Emergency lighting	-	
Approval and Application		
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	
	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%	

#### PowerBalance gen2

Initial chromaticity	(0.38, 0.38) SDCM ≤3	Product Data	
Power consumption tolerance	+/-10%	Order product name	RC463B 34S/940 PSD W62L62 VPC
Standard Deviation of Colour Matching	SDCM≤3		W3W2
(McAdam ellipse)		Full product name	RC463B 34S/940 PSD W62L62 VPC
			W3W2
Over Time Performance (IEC Complia	ant)	Full product code	871869996465800
Control gear failure rate at median useful l	ife 2.5 %	Order code	910505100259
50000 h		Material Nr. (12NC)	910505100259
Control gear failure rate at median useful l	ife 5 %	Numerator - Quantity Per Pack	1
100000 h		EAN/UPC - Product/Case	8718699964658
Lumen maintenance at median useful life*	L90	Numerator - Packs per outer box	1
50000 h		EAN/UPC - Case	8718699964658
Lumen maintenance at median useful life*	L80	Product family code	RC463B [PowerBalance recessed]
100000 h			

#### **Dimensional drawing**





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