



# PowerBalance gen2

## RC461B 34S/840 SEIA W30L120 VPC U4 SC UE

PowerBalance gen2, Recessed, UltraEfficient, 20 W, 300x1200 mm, VPC, 3400 lm, 4000 K, Wireless, Interact Ready, UGR16, IA4

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 energy-efficient, office-compliant LED luminaire. Designed for circularity and enhanced wellbeing, this office luminaire also promises future-proof connectivity. State-of-the-art efficacy (at CRI >90), upgradability features, a long lifetime, reparability, 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 bandraaster-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	
Light source replaceable	No
Number of gear units	1 unit
Driver included	Yes
Service tag	Yes
Lighting Technology	LED
Value ladder	Specification
Warranty period	5 years

Light Technical	
Luminous Flux	3,400 lm
Saturated Red (R9)	<50
Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	172 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	
Input Voltage	220 to 240 V
Line Frequency	50 to 60 Hz
Inrush current	20 A
Inrush time	0.216 ms
Power Consumption	20 W
Power Factor (Fraction)	0.9
Connection	Push-in connector and pull relief
Cable	-
Number of products on MCB of 16 A type B	24
Suitable for random switching	Yes (relates to presence/ movement detection and daylight harvesting)
Protection class IEC	Safety class I
Feed-through wiring	-
Total harmonic distortion	10 %

Controls and Dimming	
Dimmable	Yes
Driver/power unit/transformer	Sensor ready driver Interact System ready for central emergency lighting
Control interface	Wireless
Constant light output	No
Maximum dim level	1%
Connectivity	Interact Ready
Embedded control	Interact SC200 sensor

Mechanical and Housing	
Housing Material	Steel
Reflector material	Polycarbonate
Optic material	Polycarbonate
Optical cover material	Polycarbonate

Fixation material	-
Housing Color	White
Optical cover finish	Opal
Reflector Finish	White reflector
Overall length	1,197 mm
Overall width	297 mm
Overall height	82 mm
Dimensions (Height x Width x Depth)	82 x 297 x 1197 mm
Compatible ceiling or ceiling installation accessory type	Visible profile ceiling 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
Safety device	SC [Safety cable]
Net Weight (Piece)	5.300 kg

Emergency Operation	
Central Emergency	Yes
Emergency lighting	DC operated central 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 °C
Flickering value (PstLM) - Flickering value as per EN 61000-3-3	1
Stroboscopic effect visibility measure (SVM)	0.4
Ambient temperature range	+10 to +35 °C

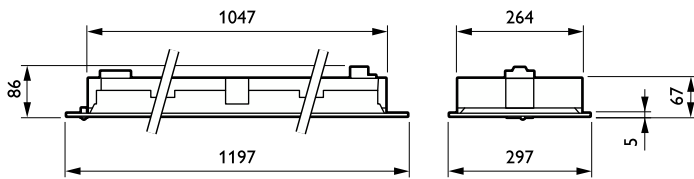
Initial Performance (IEC Compliant)	
Luminous flux tolerance	+/-10%
Initial chromaticity	(0.38, 0.38) SDCM ≤3
Power consumption tolerance	+/-10%
Standard Deviation of Colour Matching (McAdam ellipse)	SDCM≤3

Over Time Performance (IEC Compliant)	
Control gear failure rate at median useful life 50000 h	2.5 %
Control gear failure rate at median useful life 100000 h	5 %
Lumen maintenance (EN-IEC 62722-2-1) at median useful life* 50000 h	L90

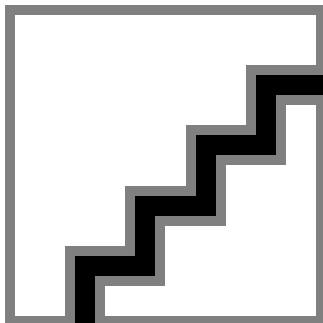
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<b>Lumen maintenance (EN-IEC 62722-2-1) at median useful life* 100000 h</b>	L85	1000 (lm) /lumen output (lm) Declared Unit * 35000 (hrs) * Energy mix (kg CO2 eq / kwh)
<b>Sustainability Data</b>		
<b>Sustainability rating</b>	Lighting for wellbeing	
<b>Repair class</b>	Repair Class C, the driver of this luminaire can be replaced by a service technician. Special care is required during disassembly and reassembly, and specific tools may be required. Parts and documentation are available for a period of time.	
<b>Embedded carbon (A1-A3)</b>	57.5 kg CO <sub>2</sub> e	
<b>Product non-virgin material ratio</b>	15.1 %	
<b>Recyclable content ratio of the finished product</b>	30.1 %	
<b>GWP total B6 (kg CO2eq) Declared Unit</b>	Please calculate using your local energy mix value: Power Declared Unit (kW) * Service life (hrs) Declared Unit * Energy mix (kg CO <sub>2</sub> eq / kwh)	
<b>GWP total B6 (kg CO2eq) Functional Unit</b>	Please calculate using your local energy mix value: Power Declared Unit (kW) *	
<b>Product Data</b>		
<b>Order product name</b>	RC461B 34S/840 SEIA W30L120 VPC U4 SC UE	
<b>Full product name</b>	RC461B 34S/840 SEIA W30L120 VPC U4 SC UE	
<b>Full product code</b>	872016910933900	
<b>Order code</b>	910505103629	
<b>Material Nr. (12NC)</b>	910505103629	
<b>Numerator - Quantity Per Pack</b>	1	
<b>EAN/UPC - Product/Case</b>	8720169109339	
<b>Numerator - Packs per outer box</b>	1	
<b>EAN/UPC - Case</b>	8720169109339	
<b>Product family code</b>	RC461B [PowerBalance recessed]	

## Dimensional drawing



## Photometric data



Polar Normal (separate) - RC460BP - 910505103629

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