



# PowerBalance gen2

## RC461B 34S/840 SRD W30L120 VPC IA4 UE

PowerBalance gen2, UltraEfficient, 20 W, 300x1200 mm, VPC, 3400 lm, 4000 K, CRI>80, 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, 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 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
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	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

<b>Line Frequency</b>	50 to 60 Hz
<b>Inrush current</b>	20 A
<b>Inrush time</b>	0.216 ms
<b>Power Consumption</b>	20 W
<b>Power Factor (Fraction)</b>	0.9
<b>Connection</b>	Push-in connector and pull relief
<b>Cable</b>	-
<b>Number of products on MCB of 16 A type B</b>	24
<b>Suitable for random switching</b>	Yes (relates to presence/ movement detection and daylight harvesting)
<b>Protection class IEC</b>	Safety class I
<b>Total harmonic distortion</b>	10 %

## Controls and Dimming

<b>Dimmable</b>	Yes
<b>Driver/power unit/transformer</b>	Sensor ready driver Interact System ready
<b>Control interface</b>	Wireless
<b>Constant light output</b>	No
<b>Maximum dim level</b>	1%
<b>Connectivity</b>	Interact Ready
<b>Embedded control</b>	Interact SNS210 sensor

## Mechanical and Housing

Housing Material	Steel
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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	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
Net Weight (Piece)	5.300 kg

## Emergency Operation

Central Emergency	No
Emergency lighting	-

## Approval and Application

<b>Glow-wire test</b>	Temperature 650 °C, duration 30 s
<b>Flammability mark</b>	For mounting on normally flammable surfaces
<b>CE mark</b>	Yes
<b>ENEC mark</b>	ENEC mark
<b>Photobiological risk</b>	Photobiological risk group 1 @200mm to EN62778
<b>EU RoHS compliant</b>	Yes
<b>Performance ambient temperature Tq</b>	25 °C
<b>Flickering value (PstLM) - Flickering value as per EN 61000-3-3</b>	1
<b>Stroboscopic effect visibility measure (SVM)</b>	0.4
<b>Ambient temperature range</b>	+10 to +35 °C

### Initial Performance (IEC Compliant)

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

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Lumen maintenance at median useful life*	L90
50000 h	
Lumen maintenance at median useful life*	L85
100000 h	
Product Data	
Order product name	RC461B 34S/840 SRD W30L120 VPC IA4 UE
Full product name	RC461B 34S/840 SRD W30L120 VPC IA4 UE

Full product code	872016910929200
Order code	910505103625
Material Nr. (12NC)	910505103625
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8720169109292
Numerator - Packs per outer box	1
EAN/UPC - Case	8720169109292
Product family code	RC461B [PowerBalance recessed]

Dimensional drawing

