



# PowerBalance gen2

## RC461B 34S/840 PSD W60L60 VPC UE

PowerBalance gen2, UltraEfficient, 20 W, 600x600 mm, VPC, 3400 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, 2025, January 10 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                                |
|  | <del>-</del>                             |
| 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                 |  |
| Line Frequency                           | 50 to 60 Hz                              |
| Inrush current                           | 23.1 A                                   |
| Inrush time                              | 0.221 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 | 22                                       |
| Suitable for random switching            | No                                       |
| Protection class IEC                     | Safety class I                           |
| Total harmonic distortion                | 20 %                                     |
| Control on d P'                          |  |
| 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                   |  |
|  | Stool                                    |
| Housing Material                         | Steel                                    |
| Reflector material                       | Polycarbonate                            |

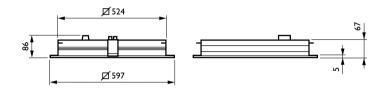
| Optic material  | Polycarbonate                          |  |
|---|--|--|
| Optical cover material                                | Polycarbonate                          |  |
| Fixation material                                     | -                                      |  |
| Housing Color   | White RAL 9003                         |  |
| Optical cover finish                                  | Opal                                   |  |
| Reflector Finish                                      | White reflector                        |  |
| Overall length  | 597 mm                                 |  |
| Overall width   | 597 mm                                 |  |
| Overall height  | 72 mm                                  |  |
| Dimensions (Height x Width x Depth)                   | 72 x 597 x 597 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                          | IKO3 [0.35 J reinforced]               |  |
| Explosion hazard class                                | -                                      |  |
| Mounting  | Recessed                               |  |
| Net Weight (Piece)                                    | 4.600 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%                                 |  |
| Initial chromaticity                                  | (0.38, 0.38) SDCM ≤3                   |  |
| Power consumption tolerance                           | +/-10%                                 |  |
| Standard Deviation of Colour Matching                 | SDCM≤3                                 |  |
| (McAdam ellipse)                                      |  |  |
| <u> </u>  |  |  |
| 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  |  |  |
|   |  |  |

## PowerBalance gen2

| 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 PSD W60L60 VPC UE |
| Full product name                        | RC461B 34S/840 PSD W60L60 VPC UE |
| Full product code                        | 872016910928500                  |

| Order code                      | 910505103624                   |
|---------------------------------|--------------------------------|
| Material Nr. (12NC)             | 910505103624                   |
| Numerator - Quantity Per Pack   | 1                              |
| EAN/UPC - Product/Case          | 8720169109285                  |
| Numerator - Packs per outer box | 1                              |
| EAN/UPC - Case                  | 8720169109285                  |
| Product family code             | RC461B [PowerBalance recessed] |
|                                 |                                |

### Dimensional drawing





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