# PowerBalance gen2

## RC461B LED34S/940 PSD W60L60 VPC PIP

PowerBalance gen2, 24 W, 600x600 mm, VPC, 3400 lm, 4000 K, CRI≥90, DALI, UGR16

When it comes to lighting an office space with LED luminaires, people are usually willing to invest in sustainability provided the investment pays back. At the same time, the system should comply with office lighting norms to ensure a comfortable working environment. PowerBalance gen2 is Philips' most energy-efficient office-norm-compliant LED luminaire. It more than halves energy costs compared to a T5 solution, and the light source has a longer lifetime. This results in significantly lower operational costs, ensuring a payback that meets the needs of the specification market.The gen2 architecture enables a range of highly versatile modular and semi-modular luminaires. These luminaires can be easily mounted in ceilings with exposed T-bar and concealed T-bar, as well as plaster ceilings and bandraster-type ceilings. PowerBalance is also available in a surface-mounted version.

**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

| General Information | | | |
|---|---|---|---|
| Lamp family code | LED34S [LED module, system flux 3400 lm] | Service tag | Yes |
| | | Product family code | RC461B [PowerBalance recessed] |
| Light source replaceable | No | Lighting Technology | LED |
| Number of gear units | 1 unit | Value ladder | Specification |
| Gear | – | CE mark | Yes |
| Driver included | Yes | Warranty period | 5 years |

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| | |
|---|---|
| **Flammability mark** | For mounting on normally flammable surfaces |
| **ENEC mark** | ENEC mark |
| **Glow-wire test** | Temperature 650 °C, duration 30 s |
| **EU RoHS compliant** | Yes |

## Light Technical

| | |
|---|---|
| **Luminous Flux** | 3,400 lm |
| **Saturated Red (R9)** | >50 |
| **Correlated Color Temperature (Nom)** | 4000 K |
| **Luminous Efficacy (rated) (Nom)** | 139 lm/W |
| **Color rendering index (CRI)** | ≥90 |
| **Flickering value (PstLM) – Flickering value as per EN 61000-3-3** | 1 |
| **Stroboscopic effect visibility measure (SVM)** | 0.4 |
| **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 |
| **Optical cover type** | Polycarbonate bowl/cover |
| **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** | 19.4 A |
| **Inrush time** | 0.230 ms |
| **Power Consumption** | 24 W |
| **Power Factor (Fraction)** | 0.9 |
| **Connection** | Push-in connector and pull relief |
| **Cable** | – |
| **Number of products on MCB of 16 A type B** | 30 |
| **UL Type** | Type B – bypass the ballast |

## Temperature

| | |
|---|---|
| **Ambient temperature range** | +10 to +40 °C |

## Controls and Dimming

| | |
|---|---|
| **Dimmable** | Yes |
| **Driver/power unit/transformer** | Power supply unit with DALI interface |
| **Control interface** | DALI |
| **Constant light output** | No |

## Mechanical and Housing

| | |
|---|---|
| **Housing Material** | Steel |
| **Reflector material** | Polycarbonate |
| **Optic material** | Polycarbonate |
| **Optical cover material** | – |
| **Fixation material** | – |
| **Housing Color** | White |

| | |
|---|---|
| **Optical cover finish** | – |
| **Overall length** | 597 mm |
| **Overall width** | 597 mm |
| **Overall height** | 86 mm |
| **Dimensions (Height x Width x Depth)** | 86 x 597 x 597 mm |
| **Compatible ceiling or ceiling installation accessory type** | Visible profile ceiling version |

## Approval and Application

| | |
|---|---|
| **Ingress protection code** | IP20/40 [Finger-protected, Emitting surface] |
| **Mech. impact protection code** | IK02 [0.2 J standard] |
| **Sustainability rating** | Lighting for circularity Lighting for wellbeing |
| **Protection class IEC** | Safety class I |
| **Photobiological risk** | Photobiological risk group 1 @200mm to EN62778 |

## Initial Performance (IEC Compliant)

| | |
|---|---|
| **Luminous flux tolerance** | +/-10% |
| **Initial chromaticity** | (0.38, 0.38) SDCM <3 |
| **Power consumption tolerance** | +/-10% |

## Over Time Performance (IEC Compliant)

| | |
|---|---|
| **Control gear failure rate at median useful life 50000 h** | 5 % |
| **Lumen maintenance at median useful life* 50000 h** | L90 |
| **Lumen maintenance at median useful life* 100000 h** | L80 |

## Application Conditions

| | |
|---|---|
| **Performance ambient temperature Tq** | 25 °C |
| **Maximum dim level** | 1% |
| **Suitable for random switching** | No |

## Product Data

| | |
|---|---|
| **Order product name** | RC461B LED34S/940 PSD W60L60 VPC PIP |
| **Full product name** | RC461B LED34S/940 PSD W60L60 VPC PIP |
| **Full product code** | 871869996451100 |
| **Order code** | 96451100 |
| **Material Nr. (12NC)** | 910505100245 |
| **Numerator – Quantity Per Pack** | 1 |
| **EAN/UPC – Product/Case** | 8718699964511 |
| **Numerator – Packs per outer box** | 1 |
| **EAN/UPC – Case** | 8718699964511 |

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## Dimensional drawing

⌀ 524

⌀ 597

86

67

5