



PowerBalance gen2

RC415B LED20S/940 PSD W15L120 VPC PIP

PowerBalance recessed - LED Module, system flux 2000 lm - 940 neutral white - Power supply unit with DALI interface - Push-in connector and pull relief - -

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 bandraaster-type ceilings. PowerBalance is also available in a surface-mounted version.

Warnings and Safety

- The product is IPX0 and as such is not protected against water ingress, so we strongly recommend that the environment in which the luminaire is to be installed is suitably checked
- If the above advice is not taken and the luminaires are subject to water ingress, Philips/Signify cannot guarantee safe use and the product warranty will become void

Product data

| General Information | | | |
|----------------------------|---|--------------------------|-------------------|
| Number of light sources | 1 [1 pc] | Light source colour | 940 neutral white |
| Lamp family code | LED20S [LED Module, system flux 2000 lm] | Light source replaceable | No |
| Beam angle of light source | 120 ° | Number of gear units | 1 unit |
| | | Gear | - |

PowerBalance gen2

| | |
|---|--|
| Driver/power unit/transformer | PSD [Power supply unit with DALI interface] |
| Driver included | Yes |
| Optic type | No [-] |
| Optical cover/lens type | PC [Polycarbonate bowl/cover] |
| Luminaire light beam spread | 86° |
| Control interface | DALI |
| Connection | PIP [Push-in connector and pull relief] |
| Cable | - |
| Protection class IEC | Safety class I (I) |
| Glow-wire test | 850/5 [Temperature 850 °C, duration 5 s] |
| Flammability mark | F [For mounting on normally flammable surfaces] |
| CE mark | CE mark |
| ENEC mark | ENEC mark |
| UL mark | - |
| Warranty period | 5 years |
| Glare-shielding accessories | No [-] |
| Constant light output | No |
| Number of products on MCB (16 A type B) | 24 |
| EU RoHS compliant | Yes |
| Product family code | RC415B [PowerBalance recessed] |
| Unified glare rating CEN | 16 |

Light Technical

| | |
|---------------|-----|
| Saturated Red | >50 |
|---------------|-----|

Operating and Electrical

| | |
|---------------------|-----------------------------|
| Input Voltage | 220 to 240 V |
| Input frequency | 50 to 60 Hz |
| Inrush current | 21 A |
| Inrush time | 0.28 ms |
| Power factor (min.) | 0.9 |
| UL Type | Type B – bypass the ballast |

Controls and Dimming

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|----------|-----|
| Dimmable | Yes |
|----------|-----|

Mechanical and Housing

| | |
|-----------------------------|---------------|
| Housing material | Steel |
| Reflector material | Polycarbonate |
| Optic material | - |
| Optical cover/lens material | Polycarbonate |
| Gear tray material | Steel |
| Fixation material | - |
| Optical cover/lens finish | Matte |
| Overall length | 1197 mm |

| | |
|-------------------------------------|--|
| Overall width | 148 mm |
| Overall height | 77 mm |
| Colour | White RAL 9003 |
| Dimensions (height x width x depth) | 77 x 148 x 1197 mm (3 x 5.8 x 47.1 in) |

Approval and Application

| | |
|------------------------------|------------------------|
| Ingress protection code | IP20 (front IP40) |
| Mech. impact protection code | IK02 [0.2 J standard] |

Initial Performance (IEC Compliant)

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|--|----------------------|
| Initial luminous flux (system flux) | 2000 lm |
| Initial luminous flux at colour temperature of 4,000 K | 2000 lm |
| Luminous flux tolerance | +/-10% |
| Initial LED luminaire efficacy | 129 lm/W |
| Init. Corr. Colour Temperature | 4000 K |
| Init. Colour rendering index | ≥90 |
| Initial chromaticity | (0.38, 0.38) SDCM <3 |
| Initial input power | 15.5 W |
| Power consumption tolerance | +/-10% |

Over Time Performance (IEC Compliant)

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|--|-----|
| Control gear failure rate at median useful life 50,000 h | 5 % |
| Lumen maintenance at median useful life* 50,000 h | L90 |

Application Conditions

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|------------------------------------|---------------|
| Ambient temperature range | +10 to +40 °C |
| Performance ambient temperature Tq | 25 °C |
| Maximum dimming level | 1% |
| Suitable for random switching | No |

Product Data

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|-----------------------------------|---------------------------------------|
| Full product code | 871869996435100 |
| Order product name | RC415B LED20S/940 PSD W15L120 VPC PIP |
| EAN/UPC – product | 8718699964351 |
| Order code | 96435100 |
| SAP numerator – quantity per pack | 1 |
| Numerator – packs per outer box | 1 |
| SAP material | 910505100229 |
| SAP net weight (piece) | 4.800 kg |



