



PowerBalance, surface mounted

SM461V LED28S/840 PSD W17L169

PowerBalance Surface-mounted, LED module, system flux 2800 lm, 840 neutral white, Power supply unit with DALI interface

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 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. PowerBalance surface-mounted luminaires are easy to install on ceilings thanks to their intuitive mounting system. PowerBalance is also available in a recessed version.

Product data

| General Information | | |
|--------------------------|--|--|
| Lamp family code | LED28S [LED module, system flux 2800 lm] | |
| Cap-Base | - [-] | |
| Light source replaceable | No | |
| Number of gear units | 1 unit | |
| Driver included | Yes | |
| Remarks | *-Per Lighting Europe guidance paper "Evaluating performance of LED based luminaires - January 2018": statistically there is no relevant difference in lumen maintenance between B50 and for example B10. Therefore, the median useful life (B50) value also represents the B10 value. | |
| Product family code | SM461V [PowerBalance Surface-mounted] | |
| Lighting Technology | LED | |
| Glow-wire test | Temperature 850 °C, duration 5 s | |
| Flammability mark | For mounting on normally flammable surfaces | |
| CE mark | Yes | |
| ENEC mark | ENEC plus mark | |

PowerBalance, surface mounted

| | |
|-------------------|---------|
| Warranty period | 5 years |
| EU RoHS compliant | Yes |
| Embedded control | - |

Light Technical

| | |
|------------------------------------|-------------------|
| Luminous Flux | 2,800 lm |
| Correlated Color Temperature (Nom) | 4000 K |
| Luminous Efficacy (rated) (Nom) | 133 lm/W |
| Color rendering index (CRI) | ≥80 |
| Number of light sources | 1 |
| Beam angle of light source | - degree(s) |
| Light source color | 840 neutral white |
| Optic type | - |
| Luminaire light beam spread | 120° |
| Unified glare rating CEN | 16 |

Operating and Electrical

| | |
|--|-----------------------------------|
| Input Voltage | 220-240 V |
| Line Frequency | 50 to 60 Hz |
| Inrush current | 48 A |
| Inrush time | 1 ms |
| Power Consumption | 21 W |
| Power Factor (Fraction) | 0.9 |
| Connection | Push-in connector and pull relief |
| Cable | - |
| Number of products on MCB of 16 A type B | 20 |

Temperature

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

Controls and Dimming

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|-------------------------------|---------------------------------------|
| 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 | - |
| Optical cover material | Polycarbonate |
| Fixation material | - |
| Housing Color | White |
| Optical cover finish | Matte |
| Overall length | 1,685 mm |
| Overall width | 171 mm |
| Overall height | 85 mm |
| Dimensions (Height x Width x Depth) | 85 x 171 x 1685 mm |

Approval and Application

| | |
|------------------------------|-----------------------|
| Ingress protection code | IP40 [Wire-protected] |
| Mech. impact protection code | IK02 [0.2 J standard] |
| Protection class IEC | Safety class I |

Initial Performance (IEC Compliant)

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

Application Conditions

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

Product Data

| | |
|---------------------------------|-------------------------------|
| Order product name | SM461V LED28S/840 PSD W17L169 |
| Full product name | SM461V LED28S/840 PSD W17L169 |
| Full product code | 871794310321800 |
| Order code | 910504092203 |
| Material Nr. (12NC) | 910504092203 |
| Numerator - Quantity Per Pack | 1 |
| EAN/UPC - Product/Case | 8717943103218 |
| Numerator - Packs per outer box | 1 |
| EAN/UPC - Case | 8717943103218 |

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Dimensional drawing

