# SmartBalance, surface mounted

## SM480C LED35S/830 PSD ACC-MLO

SmartBalance Surface Mounted, LED Module, system flux 3500 lm, 830 warm white, Power supply unit with DALI interface, Acrylate micro-lens optic clear

Although in many cases the functional lighting performance is key, customers are also keen to apply luminaires that are attractive and/or unobtrusive. Especially in applications where luminaires need to be surface-mounted or suspended, it can be difficult to satisfy both these requirements. SmartBalance is clearly the next step in surface-mounted and suspended luminaires for the specification market. It not only offers increased energy efficiency, but is also visually appealing without being intrusive. And its design helps to minimize clutter on the ceiling and meets all relevant office norms. SmartBalance is also available in recessed and free floor-standing versions.

**Warnings and Safety**
- The product is IPX0 & as such is not protected against water ingress & as such 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 failure & product warranty will become void

## Product data

| General Information | |
| --- | --- |
| Lamp family code | LED35S [LED Module, system flux 3500 lm] |
| Cap-Base | – [-] |
| Light source replaceable | No |
| Number of gear units | 1 unit |

| | |
| --- | --- |
| Gear | - |
| Driver included | Yes |
| Remarks | *-Per Lighting Europe guidance paper "Evaluating performance of LED based luminaires - January 2018": statistically there |

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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.

| | |
|---|---|
| Service tag | Yes |
| Product family code | SM480C [SmartBalance Surface Mounted] |
| Lighting Technology | LED |
| Value ladder | Specification |
| Embedded control | – |
| CE mark | Yes |
| Warranty period | 5 years |
| Flammability mark | For mounting on normally flammable surfaces |
| ENEC mark | ENEC plus mark |
| Glow-wire test | Temperature 650 °C, duration 5 s |
| EU RoHS compliant | Yes |

## Light Technical

| | |
|---|---|
| Luminous Flux | 3,500 lm |
| Correlated Color Temperature (Nom) | 3000 K |
| Luminous Efficacy (rated) (Nom) | 109 lm/W |
| Color rendering index (CRI) | ≥80 |
| Number of light sources | 1 |
| Beam angle of light source | – degree(s) |
| Light source color | 830 warm white |
| Optic type | – |
| Optical cover type | Acrylate micro-lens optic clear |
| Luminaire light beam spread | 100° |
| Unified glare rating CEN | 19 |

## Operating and Electrical

| | |
|---|---|
| Input Voltage | 220 to 240 V |
| Line Frequency | 50 to 60 Hz |
| Inrush current | 48 A |
| Inrush time | 0.180 ms |
| Power Consumption | 32 W |
| Power Factor (Fraction) | 0.9 |
| Connection | Push-in connector 3-pole |
| Cable | – |
| Number of products on MCB of 16 A type B | 20 |

## 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 | Polycarbonate |
| Reflector material | – |
| Optic material | – |
| Optical cover material | Acrylate |
| Fixation material | – |
| Housing Color | White |
| Optical cover finish | Textured |
| Overall length | 1,340 mm |
| Overall width | 240 mm |
| Overall height | 52 mm |
| Dimensions (Height x Width x Depth) | 52 x 240 x 1340 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)

| | |
|---|---|
| Luminous flux tolerance | +/-10% |
| Initial chromaticity | (0.43, 0.40) 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 | L85 |

## Application Conditions

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

## Product Data

| | |
|---|---|
| Order product name | SM480C LED35S/830 PSD ACC-MLO |
| Full product name | SM480C LED35S/830 PSD ACC-MLO |
| Full product code | 871829127352300 |
| Order code | 910504084603 |
| Material Nr. (12NC) | 910504084603 |
| Numerator – Quantity Per Pack | 1 |
| EAN/UPC – Product/Case | 8718291273523 |
| Numerator – Packs per outer box | 1 |
| EAN/UPC – Case | 8718291273523 |

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**Dimensional drawing**

www.lighting.philips.com

2023, September 4 – data subject to change