



# SmartBalance – combining performance with smart design

## SmartBalance, surface mounted

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.

### Benefits

- Operational cost savings – more energy-efficient than fluorescent
- Attractive, unobtrusive design – limits clutter on ceiling
- Office-norm-compliant

### Features

- Energy efficacy > 90 lm/W, allowing energy cost savings of around 30%
- Compact, lightweight and unobtrusive
- SmartBalance meets UGR 19 and two levels of L65, namely 1500/3000 cd/m<sup>2</sup>
- SmartBalance offers a number of options to meet the needs of the specification business, such as (wireless) DALI-controllable, emergency lighting, coupling parts

# SmartBalance, surface mounted

## Application

- Indoor general lighting applications requiring surface or suspended mounting

## 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

## Specifications

Type	SM480C
Light source	Philips Fortimo LED Line 1R
Power (+/-10%)	25 W (3,000 lm, 4,000 K/ACC-MLO) 30 W (3,500 lm, 4,000 K/ACC-MLO)
Luminous flux	3,000 or 3,500 lm
Correlated Colour	3,000 or 4,000 K
Temperature	
Colour Rendering Index	>80
Lumen maintenance at median useful life* 50,000 h	L80
Control gear failure rate at median useful life 50,000 h	5%
Performance Ambient Temperature Tq	+25 °C
Operating temperature range	+10 to +40 °C

Driver	Built-in
Mains voltage	220-240 V / 50-60 Hz
Dimming	Dimmable
Control system input	DALI
Options	Emergency lighting: 1.5 hours ActiLume Wireless system
Material	Housing: polycarbonate and sheet metal Cover/optic: PMMA or polycarbonate
Colour	White (WH) or silver grey (SI)
Optic	OLC micro-lens optic made of clear acrylic (ACC-MLO)
Connection	Push-in connector (PI)
Maintenance	Optical module sealed for life; no internal cleaning required
Installation	Individual; locking the luminaire into the pre-mounted ceiling plate (delivered with the luminaire) Through-wiring possible Optional: use of surface-mounted gear tray adaptor

## Versions



SmartBalance Surface Mounted -  
LED Module, system flux 3500 lm

# SmartBalance, surface mounted

## Product details

IPDP\_SM480Ci\_0001-Detail  
photo



IPDP\_SM480Ci\_0003-Detail  
photo



IPDP\_SM480Ci\_0005-Detail  
photo



IPDP\_SM480Ci\_0007-Detail  
photo



IPDP\_SM480Ci\_0011-Detail photo



IPDP\_SM480Ci\_0013-Detail  
photo



IPDP\_SM480Ci\_0015-Detail  
photo



# SmartBalance, surface mounted

## Product details

IPDP\_SM480Ci\_0017-Detail  
photo



### Application Conditions

Ambient temperature range	+10 to +40 °C
Maximum dimming level	1%
Suitable for random switching	No

### Approval and Application

Mech. impact protection code	IK02
Ingress protection code	IP20

### Controls and Dimming

Dimmable	Yes
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### Operating and Electrical

Input Voltage	220-240 V
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### General Information

Beam angle of light source	- °
CE mark	CE mark
Protection class IEC	Safety class I (I)
Driver included	Yes
ENEC mark	ENEC mark
Flammability mark	F
Glow-wire test	650/5
Light source replaceable	No
Number of gear units	1 unit
Optic type	No
Product family code	SM480C

### Initial Performance (IEC Compliant)

Initial chromaticity	(0.38, 0.38) SDCM <3
Init. Colour rendering index	>90
Luminous flux tolerance	+/-10%

### Mechanical and Housing

Colour	White
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Order Code	Full Product Name	Driver failure rate at 5,000 hours
910505100279	SM480C LED35S/930 PSD ACC-MLO WH	0.01 %
910505100432	SM480C LED40S/930 PSD ACC-MLO	-
910505100433	SM480C LED40S/940 PSD ACC-MLO	-
910505100464	SM480C LED40S/930 PSD ACC-MLO SWZ	-
910505100465	SM480C LED40S/940 PSD ACC-MLO SWZ	-
910505100499	SM480C LED35S/940 PSD ACC-MLO WH	-

## General Information (1/2)

## SmartBalance, surface mounted

Order Code	Full Product Name	Cap base	Optical		Gear
			cover/lens type	Emergency lighting	
910505100279	SM480C LED35S/930 PSD ACC-MLO WH	-	ACC-MLO	No	-
910505100432	SM480C LED40S/930 PSD ACC-MLO	-	-	-	-
910505100433	SM480C LED40S/940 PSD ACC-MLO	-	-	-	-

Order Code	Full Product Name	Cap base	Optical		Gear
			cover/lens type	Emergency lighting	
910505100464	SM480C LED40S/930 PSD ACC-MLO SWZ	-	-	-	-
910505100465	SM480C LED40S/940 PSD ACC-MLO SWZ	-	-	-	-
910505100499	SM480C LED35S/940 PSD ACC-MLO WH	-	-	-	-

### General Information (2/2)

Order Code	Full Product Name	Glare-shielding accessories	Lamp family code	Number of	
				light sources	UL mark
910505100279	SM480C LED35S/930 PSD ACC-MLO WH	No	LED35S	1	No
910505100432	SM480C LED40S/930 PSD ACC-MLO	-	-	-	-
910505100433	SM480C LED40S/940 PSD ACC-MLO	-	-	-	-

Order Code	Full Product Name	Glare-shielding accessories	Lamp family code	Number of	
				light sources	UL mark
910505100464	SM480C LED40S/930 PSD ACC-MLO SWZ	-	-	-	-
910505100465	SM480C LED40S/940 PSD ACC-MLO SWZ	-	-	-	-
910505100499	SM480C LED35S/940 PSD ACC-MLO WH	-	-	-	-

### Initial Performance (IEC Compliant)

Order Code	Full Product Name	Init. Corr. Colour Temperature	Initial LED luminaire efficacy	Initial luminous flux	Initial input power
910505100432	SM480C LED40S/930 PSD ACC-MLO	3000 K	116 lm/W	4000 lm	34.5 W
910505100433	SM480C LED40S/940 PSD ACC-MLO	4000 K	121 lm/W	4000 lm	33 W
910505100464	SM480C LED40S/930	3000 K	116 lm/W	4000 lm	34.5 W

Order Code	Full Product Name	Init. Corr. Colour Temperature	Initial LED luminaire efficacy	Initial luminous flux	Initial input power
910505100465	SM480C LED40S/940 PSD ACC-MLO SWZ	4000 K	121 lm/W	4000 lm	33 W
910505100499	SM480C LED35S/940 PSD ACC-MLO WH	4000 K	123 lm/W	3500 lm	28.5 W

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