



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/m²
- SmartBalance offers a number of options to meet the needs of the specification business, such as (wireless) DALI-controllable, emergency lighting, coupling parts

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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	Driver	Built-in
Light source	Philips Fortimo LED Line 1R	Mains voltage	220-240 V / 50-60 Hz
Power (+/-10%)	40 W (4000 K / ACC-MLO)	Dimming	Dimmable
Luminous flux	3000 or 3500 lm	Controls system input	DALI
Correlated Color	3000 or 4000 K	Options	Emergency lighting: 1.5 hour ActiLume Wireless system
Temperature		Material	Housing: polycarbonate and sheet metal Cover / optic: PMMA or polycarbonate
Color Rendering Index	>80	Color	White (WH) or silver grey (SI)
Median useful life	70,000 hours	Optic	OLC micro-lens optic made of clear acrylic (ACC-MLO)
L70B50		Connection	Push-in connector (PI)
Median useful life	50,000 hours	Maintenance	Optical module sealed for life; no internal cleaning required
L80B50		Installation	Individual; locking the luminaire into pre-mounted ceiling plate (delivered with the luminaire) Through-wiring possible Optional: use of surface mounted gear tray adapter
Median useful life	25,000 hours		
L90B50			
Driver failure rate	1% per 5000 hours		
Average ambient temperature	+25 °C		
Operating temperature range	+10 to +40 °C		

Versions



SmartBalance Surface Mounted -
LED Module, system flux 3500 lm

SmartBalance, surface mounted

Product details

SmartBalance – available with emergency lighting



SmartBalance surface-mounted – easy electrical connection



Service cord enabling one-man installation; hands free to connect the LED engine



Gear tray spring for easy clicking of the housing to the gear tray



LED engine connector: easy connection



Surface-mounted installation; freedom in inserting the mains wire



Gear tray spring: easy to click the gear tray onto the housing



Front view



SmartBalance, surface mounted

Product details

Side view



Surface-mounted gear tray adapter – in case more space is needed to hide the power feed



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
96485600	SM480C LED35S/930 PSD ACC-MLO WH	0.01 %
96620100	SM480C LED40S/930 PSD ACC-MLO	-
96621800	SM480C LED40S/940 PSD ACC-MLO	-
96652200	SM480C LED40S/930 PSD ACC-MLO SWZ	-
96653900	SM480C LED40S/940 PSD ACC-MLO SWZ	-
96687400	SM480C LED35S/940 PSD ACC-MLO WH	-

General Information (1/2)

SmartBalance, surface mounted

Order Code	Full Product Name	Cap base	Optical		Emergency lighting	Gear
			cover/lens type	Emergency lighting		
96485600	SM480C LED35S/930 PSD ACC-MLO WH	-	ACC-MLO	No	-	
96620100	SM480C LED40S/930 PSD ACC-MLO	-	-	-	-	
96621800	SM480C LED40S/940 PSD ACC-MLO	-	-	-	-	

Order Code	Full Product Name	Cap base	Optical		Emergency lighting	Gear
			cover/lens type	Emergency lighting		
96652200	SM480C LED40S/930 PSD ACC-MLO SWZ	-	-	-	-	
96653900	SM480C LED40S/940 PSD ACC-MLO SWZ	-	-	-	-	
96687400	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
96485600	SM480C LED35S/930 PSD ACC-MLO WH	No	LED35S	1	-
96620100	SM480C LED40S/930 PSD ACC-MLO	-	-	-	-
96621800	SM480C LED40S/940 PSD ACC-MLO	-	-	-	-

Order Code	Full Product Name	Glare-shielding accessories	Lamp family code	Number of	
				light sources	UL mark
96652200	SM480C LED40S/930 PSD ACC-MLO SWZ	-	-	-	-
96653900	SM480C LED40S/940 PSD ACC-MLO SWZ	-	-	-	-
96687400	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
96620100	SM480C LED40S/930 PSD ACC-MLO	3000 K	116 lm/W	4000 lm	34.5 W
96621800	SM480C LED40S/940 PSD ACC-MLO	4000 K	121 lm/W	4000 lm	33 W
96652200	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
96687400	SM480C LED35S/940 PSD ACC-MLO WH	4000 K	123 lm/W	3500 lm	28.5 W

