



SmartBalance – combining performance with smart design

SmartBalance, suspended

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/m²²
- SmartBalance offers a number of options to meet the needs of the specification business, such as (wireless) DALI-controllable, emergency lighting, coupling parts

SmartBalance, suspended

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 followed and the luminaires are subject to water ingress, Philips/Signify cannot guarantee safe use and the product warranty will become void

Specifications

Type	SP480P (direct lighting version) SP482P (direct / indirect lighting version)
Light source	Philips Fortimo LED Line 1R
Power (+/-10%)	SP480P: 40 W (4000 K / ACC-MLO) SP482P: 43 W (4000 K / ACC-MLO)
Luminous flux	3000, 3500 or 4000 lm
Correlated Color	3000 or 4000 K
Temperature	
Color Rendering Index	>80
Median useful life	70,000 hours
L70B50	
Median useful life	50,000 hours
L80B50	
Median useful life	25,000 hours
L90B50	
Driver failure rate	1% per 5000 hours
Average ambient temperature	+25 °C
Operating temperature range	+10 to +35 °C
Driver	Built-in
Mains voltage	220-240 V / 50-60 Hz

Dimming	Dimmable
Controls system input	DALI
Options	Emergency lighting: 1.5 hour Coupling piece (to connect up to 3 luminaires) ActiLume Wireless system
Material	Housing: polycarbonate and sheet metal Cover / optic: PMMA or polycarbonate
Color	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	Suspended mounting with a set of single steel-wire suspensions including a power cord, 170 cm Suspension set SM1: set with twin metal tubes Suspension set SM2: set with ceiling cap and metal tube Suspension set SMT1: connection with clips to an exposed T-bar ceiling with two steel-wire suspensions Fast fine adjustment with clutch device (Reutlinger) Through-wiring possible Optional: coupling piece for mechanical and power/data connection of up to three suspended luminaires

Product details



SmartBalance suspended – easy electrical connection



SmartBalance – Reutlinger connection for easy suspension

SmartBalance, suspended

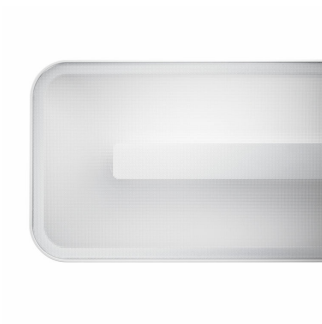
Product details



Slim ceiling cap



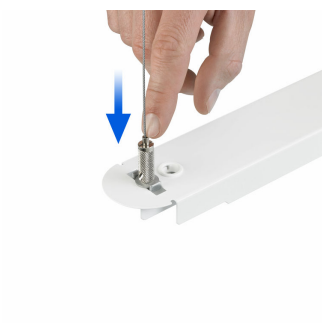
Powerful indirect lighting



SmartBalance light exit window



SmartBalance suspended luminaire



Clutch device for easy adjustment of the luminaire height



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

SmartBalance, suspended

Product details



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

Accessories



Ordercode 27246500



Ordercode 27247200

SmartBalance, suspended

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	Yes
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
Service tag	Yes

Initial performance (IEC compliant)

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

Light technical

Flickering	1
Stroboscopic effect	0.4

Mechanical and housing

Colour	White
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General information (1/2)

Order Code	Full Product Name	Cap base	Optical cover/		Glare-shielding	
			lens type	Gear	accessories	
96488700	SP480P LED35S/930 PSD ACC-MLO SM2	-	ACC-MLO	-	No	
96489400	SP480P LED35S/930 PSD ACC-MLO SM1	-	ACC-MLO	-	No	
96490000	SP482P LED40S/940 PSD ACC-MLO SM2	-	ACC-MLO	-	No	
96630000	SP482P LED40S/930 PSD ACC-MLO SM2	-	-	-	-	
96694200	SP482P LED50S/940 PSD ACC-MLO SM2	-	-	-	-	
96695900	SP482P LED50S/930 PSD ACC-MLO SM2	-	-	-	-	

General information (2/2)

Order Code	Full Product Name	Lamp family code	Number of light sources	Product family code	UL mark
96488700	SP480P LED35S/930 PSD ACC-MLO SM2	LED40S	1	SP480P	-
96489400	SP480P LED35S/930 PSD ACC-MLO SM1	LED40S	1	SP480P	-
96490000	SP482P LED40S/940 PSD ACC-MLO SM2	LED40S	1	SP482P	-

Order Code	Full Product Name	Lamp family code	Number of light sources	Product family code	UL mark
96630000	SP482P LED40S/930 PSD ACC-MLO SM2	-	-	SP482P	-
96694200	SP482P LED50S/940 PSD ACC-MLO SM2	-	-	SP482P	-
96695900	SP482P LED50S/930 PSD ACC-MLO SM2	-	-	SP482P	-

Initial performance (IEC compliant)

Full Product		Init. Corr.	Initial LED	Initial	Initial
Order Code	Name	Colour Temperature	luminaire efficacy	luminous flux	input power
96488700	SP480P LED35S/930 PSD ACC-MLO SM2	3000 K	118 lm/W	3500 lm	29.5 W
96489400	SP480P LED35S/930 PSD ACC-MLO SM1	3000 K	118 lm/W	3500 lm	29.5 W
96490000	SP482P LED40S/940 PSD ACC-MLO SM2	4000 K	121 lm/W	4000 lm	33 W
96630000	SP482P LED40S/930	3000 K	116 lm/W	4000 lm	34.5 W

Full Product		Init. Corr.	Initial LED	Initial	Initial
Order Code	Name	Colour Temperature	luminaire efficacy	luminous flux	input power
	PSD ACC-MLO SM2				
96694200	SP482P LED50S/940 PSD ACC-MLO SM2	4000 K	127 lm/W	5000 lm	39.5 W
96695900	SP482P LED50S/930 PSD ACC-MLO SM2	3000 K	119 lm/W	5000 lm	42 W

Over time performance (IEC compliant)

Order Code	Full Product Name	Driver failure rate at 5,000 hours
96488700	SP480P LED35S/930 PSD ACC-MLO SM2	0.01 %
96489400	SP480P LED35S/930 PSD ACC-MLO SM1	0.01 %
96490000	SP482P LED40S/940 PSD ACC-MLO SM2	0.01 %

Order Code	Full Product Name	Driver failure rate at 5,000 hours
96630000	SP482P LED40S/930 PSD ACC-MLO SM2	-
96694200	SP482P LED50S/940 PSD ACC-MLO SM2	-
96695900	SP482P LED50S/930 PSD ACC-MLO SM2	-

