



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

## Specifications

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

<b>Dimming</b>	Dimmable
<b>Controls system input</b>	DALI
<b>Options</b>	Emergency lighting: 1.5 hour Coupling piece (to connect up to 3 luminaires) ActiLume Wireless system
<b>Material</b>	Housing: polycarbonate and sheet metal Cover / optic: PMMA or polycarbonate
<b>Color</b>	White (WH) or silver grey (SI)
<b>Optic</b>	OLC micro-lens optic made of clear acrylic (ACC-MLO)
<b>Connection</b>	Push-in connector (PI)
<b>Maintenance</b>	Optical module sealed for life; no internal cleaning required
<b>Installation</b>	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

## Versions



**SmartBalance Suspended Mounted - LED Module, system flux 3500 lm**

# SmartBalance, suspended

## Product details

SmartBalance suspended – easy electrical connection



SmartBalance – Reutlinger connection for easy suspension



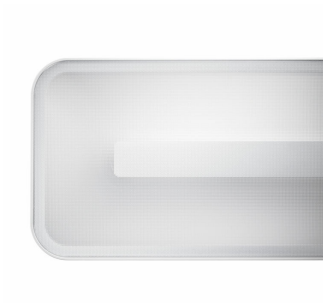
Slim ceiling cap



Powerful indirect lighting



SmartBalance light exit window



SmartBalance suspended luminaire



Clutch device for easy adjustment of the luminaire height

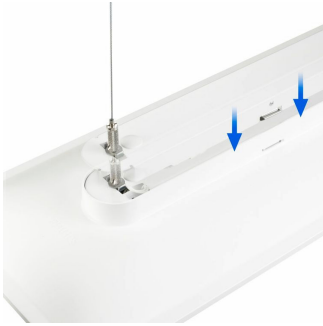


Service cord enabling one-man installation; hands free to connect the LED engine



# SmartBalance, suspended

## Product details



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



LED engine connector: easy connection



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

## Accessories



Coupling piece (kit)

Ordercode 27246500



Coupling piece (kit)

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	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

## 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
96488700	SP480P LED35S/930 PSD ACC-MLO SM2 WH	0.01 %
96489400	SP480P LED35S/930 PSD ACC-MLO SM1 WH	0.01 %
96490000	SP482P LED40S/940 PSD ACC-MLO SM2 WH	0.01 %
96630000	SP482P LED40S/930 PSD ACC-MLO SM2	-
96654600	SP480P LED40S/940 PSD ACC-MLO SWZ SM2	-
96655300	SP482P LED50S/940 PSD ACC-MLO SWZ SM2	-
96694200	SP482P LED50S/940 PSD ACC-MLO SM2	-
96695900	SP482P LED50S/930 PSD ACC-MLO SM2 WH	-

## General Information (1/2)

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

Order Code	Full Product Name	Cap base	Optical cover/lens type	Gear	Glare-shielding accessories
96654600	SP480P LED40S/940 PSD ACC-MLO SWZ SM2	-	-	-	-
96655300	SP482P LED50S/940 PSD ACC-MLO SWZ SM2	-	-	-	-
96694200	SP482P LED50S/940 PSD ACC-MLO SM2	-	-	-	-
96695900	SP482P LED50S/930 PSD ACC-MLO SM2 WH	-	-	-	-

## General Information (2/2)

## SmartBalance, suspended

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 WH	LED40S	1	SP480P	-
96489400	SP480P LED35S/930 PSD ACC-MLO SM1 WH	LED40S	1	SP480P	-
96490000	SP482P LED40S/940 PSD ACC-MLO SM2 WH	LED40S	1	SP482P	-
96630000	SP482P LED40S/930 PSD ACC-MLO SM2	-	-	SP482P	-

Order Code	Full Product Name	Lamp family code	Number of light sources	Product family code	UL mark
96654600	SP480P LED40S/940 PSD ACC-MLO SWZ SM2	-	-	SP480P	-
96655300	SP482P LED50S/940 PSD ACC-MLO SWZ SM2	-	-	SP480P	-
96694200	SP482P LED50S/940 PSD ACC-MLO SM2	-	-	SP482P	-
96695900	SP482P LED50S/930 PSD ACC-MLO SM2 WH	-	-	SP482P	-

### Initial Performance (IEC Compliant)

Order Code	Full Product Name	Init. Corr. Colour Temperature	Initial LED luminaire efficacy	Initial luminous flux	Initial input power
96488700	SP480P LED35S/930 PSD ACC-MLO SM2 WH	3000 K	118 lm/W	3500 lm	29.5 W
96489400	SP480P LED35S/930 PSD ACC-MLO SM1 WH	3000 K	118 lm/W	3500 lm	29.5 W
96490000	SP482P LED40S/940 PSD ACC-MLO SM2 WH	4000 K	121 lm/W	4000 lm	33 W
96630000	SP482P LED40S/930 PSD ACC-MLO SM2	3000 K	116 lm/W	4000 lm	34.5 W
96654600	SP480P LED40S/940 PSD	4000 K	118 lm/W	4000 lm	33 W

Order Code	Full Product Name	Init. Corr. Colour Temperature	Initial LED luminaire efficacy	Initial luminous flux	Initial input power
	ACC-MLO SWZ SM2				
96655300	SP482P LED50S/940 PSD ACC-MLO SWZ SM2	4000 K	127 lm/W	5000 lm	39.5 W
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 WH	3000 K	119 lm/W	5000 lm	42 W

