



# 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 & 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

## 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: 25 W (4000 K / ACC-MLO) SP480P: 30 W (4000 K / ACC-MLO) SP482P: 33.5 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>Lumen maintenance at median useful life*</b>	L80
<b>50000 h</b>	
<b>Control gear failure rate 5% at median useful life</b>	50000 h
<b>Performance Ambient Temperature Tq</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 SP480P luminaire, direct lighting

# SmartBalance, suspended

## Product details

Coupling piece (kit)



Coupling piece (kit)



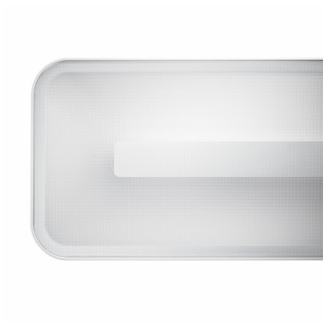
IPDP\_SP480Pi\_0001-Detail photo



IPDP\_SP480Pi\_0005-Detail photo



IPDP\_SP480Pi\_0001-Detail photo



# SmartBalance, suspended

## Product details



IPDP\_SP480Pi\_0013-Detail photo



IPDP\_SP480Pi\_0015-Detail photo



## Accessories



Coupling piece

Ordercode 910403218203



Coupling piece

Ordercode 910403218303

# SmartBalance, suspended

## Accessories

Coupling piece (kit)

Ordercode 910403218603



Coupling piece (kit)

Ordercode 910403218703



### Application Conditions

Ambient temperature range	+10 to +40 °C
Maximum dim level	1%

### Approval and Application

Mech. impact protection code	IK02
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### Controls and Dimming

Dimmable	Yes
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### General Information

Beam angle of light source	- °
CE mark	CE mark
Driver included	Yes
Flammability mark	For mounting on normally flammable surfaces
Glow-wire test	Temperature 650 °C, duration 5 s
Light source replaceable	No
Number of gear units	1 unit
Optic type	-
Service tag	Yes

### Initial Performance (IEC Compliant)

Initial chromaticity	(0.38, 0.38) SDCM <3
Luminous flux tolerance	+/-10%

### Mechanical and Housing

Color	White
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### Application Conditions

Order Code	Full Product Name	Suitable for random switching
910504095803	SP480P LED35S/840 POE ACC-MLO ACL SM1	Yes
910504095903	SP480P LED35S/840 POE ACC-MLO ACL SMT1	Yes
910504096003	SP482P LED40S/840 POE ACC-MLO ACL SM1	Yes
910504096103	SP482P LED40S/840 POE ACC-MLO ACL SMT1	Yes
910505100282	SP480P LED35S/930 PSD ACC-MLO SM2 WH	No
910505100283	SP480P LED35S/930 PSD ACC-MLO SM1 WH	No
910505100284	SP482P LED40S/940 PSD ACC-MLO SM2 WH	No
910505100442	SP482P LED40S/930 PSD ACC-MLO SM2	No
910505100466	SP480P LED40S/940 PSD ACC-MLO SWZ SM2	No
910505100467	SP482P LED50S/940 PSD ACC-MLO SWZ SM2	No

## Approval and Application

Order Code	Full Product Name	Ingress protection code
910504095803	SP480P LED35S/840 POE ACC-MLO ACL SM1	IP40
910504095903	SP480P LED35S/840 POE ACC-MLO ACL SMT1	IP40

Order Code	Full Product Name	Ingress protection code
910504096003	SP482P LED40S/840 POE ACC-MLO ACL SM1	IP40
910504096103	SP482P LED40S/840 POE ACC-MLO ACL SMT1	IP40

## SmartBalance, suspended

Order Code	Full Product Name	Ingress protection code
910505100282	SP480P LED35S/930 PSD ACC-MLO SM2 WH	IP20
910505100283	SP480P LED35S/930 PSD ACC-MLO SM1 WH	IP20
910505100284	SP482P LED40S/940 PSD ACC-MLO SM2 WH	IP20

Order Code	Full Product Name	Ingress protection code
910505100442	SP482P LED40S/930 PSD ACC-MLO SM2	IP20
910505100466	SP480P LED40S/940 PSD ACC-MLO SWZ SM2	IP20
910505100467	SP482P LED50S/940 PSD ACC-MLO SWZ SM2	IP20

### Operating and Electrical

Order Code	Full Product Name	Input Voltage
910504095803	SP480P LED35S/840 POE ACC-MLO ACL SM1	51 to 54 V
910504095903	SP480P LED35S/840 POE ACC-MLO ACL SMT1	51 to 54 V
910504096003	SP482P LED40S/840 POE ACC-MLO ACL SM1	51 to 54 V
910504096103	SP482P LED40S/840 POE ACC-MLO ACL SMT1	51 to 54 V
910505100282	SP480P LED35S/930 PSD ACC-MLO SM2 WH	220-240 V

Order Code	Full Product Name	Input Voltage
910505100283	SP480P LED35S/930 PSD ACC-MLO SM1 WH	220-240 V
910505100284	SP482P LED40S/940 PSD ACC-MLO SM2 WH	220-240 V
910505100442	SP482P LED40S/930 PSD ACC-MLO SM2	220-240 V
910505100466	SP480P LED40S/940 PSD ACC-MLO SWZ SM2	220-240 V
910505100467	SP482P LED50S/940 PSD ACC-MLO SWZ SM2	220-240 V

### General Information (1/2)

Order Code	Full Product Name	Cap-Base	Protection class IEC	Optical cover/lens type	Emergency lighting
910504095803	SP480P LED35S/840 POE ACC-MLO ACL SM1	-	Safety class III	Acrylate micro-lens optic clear	-
910504095903	SP480P LED35S/840 POE ACC-MLO ACL SMT1	-	Safety class III	Acrylate micro-lens optic clear	-
910504096003	SP482P LED40S/840 POE ACC-MLO ACL SM1	-	Safety class III	Acrylate micro-lens optic clear	-
910504096103	SP482P LED40S/840 POE ACC-MLO ACL SMT1	-	Safety class III	Acrylate micro-lens optic clear	-
910505100282	SP480P LED35S/930 PSD	-	Safety class I	Acrylate micro-lens optic clear	-

Order Code	Full Product Name	Cap-Base	Protection class IEC	Optical cover/lens type	Emergency lighting
910505100283	SP480P LED35S/930 PSD ACC-MLO SM1 WH	-	Safety class I	Acrylate micro-lens optic clear	-
910505100284	SP482P LED40S/940 PSD ACC-MLO SM2 WH	-	Safety class I	Acrylate micro-lens optic clear	-
910505100442	SP482P LED40S/930 PSD ACC-MLO SM2	-	Safety class I	-	-
910505100466	SP480P LED40S/940 PSD ACC-MLO SWZ SM2	-	Safety class I	-	-
910505100467	SP482P LED50S/940 PSD ACC-MLO SWZ SM2	-	Safety class I	-	-

### General Information (2/2)

Order Code	Full Product Name	ENEC mark	Gear	Glare shielding accessories	Lamp family code	Embedded control	Number of light sources	Product Family Code	UL mark
910504095803	SP480P LED35S/840 POE ACC-MLO ACL SM1	ENEC plus mark	-	-	LED35S	ActiLume	1 pc	SP480P	-
910504095903	SP480P LED35S/840 POE ACC-MLO ACL SMT1	ENEC plus mark	-	-	LED35S	ActiLume	1 pc	SP480P	-
910504096003	SP482P LED40S/840 POE ACC-MLO ACL SM1	ENEC plus mark	-	-	LED40S	ActiLume	1 pc	SP482P	-

## SmartBalance, suspended

Order Code	Full Product Name	ENEC mark	Glare shielding		Lamp family code	Embedded control	Number of light sources	Product	
			Gear	accessories				Family Code	UL mark
910504096103	SP482P LED40S/840 POE ACC-MLO ACL SMT1	ENEC plus mark	-	-	LED40S	ActiLume	1 pc	SP482P	-
910505100282	SP480P LED35S/930 PSD ACC-MLO SM2 WH	ENEC mark	-	-	LED40S	-	1 pc	SP480P	-
910505100283	SP480P LED35S/930 PSD ACC-MLO SM1 WH	ENEC mark	-	-	LED40S	-	1 pc	SP480P	-
910505100284	SP482P LED40S/940 PSD ACC-MLO SM2 WH	ENEC mark	-	-	LED40S	-	1 pc	SP482P	-
910505100442	SP482P LED40S/930 PSD ACC-MLO SM2	ENEC mark	-	-	-	-	-	SP482P	-
910505100466	SP480P LED40S/940 PSD ACC-MLO SWZ SM2	ENEC mark	-	-	-	-	-	SP480P	-
910505100467	SP482P LED50S/940 PSD ACC-MLO SWZ SM2	ENEC mark	-	-	-	-	-	SP480P	-

### Initial Performance (IEC Compliant) (1/2)

Order Code	Full Product Name	Init. Corr. Color Temperature	Init. Color Rendering Index	Initial LED luminaire efficacy	Initial luminous flux
910504095803	SP480P LED35S/840 POE ACC-MLO ACL SM1	4000 K	>80	109 lm/W	3500 lm
910504095903	SP480P LED35S/840 POE ACC-MLO ACL SMT1	4000 K	>80	109 lm/W	3500 lm
910504096003	SP482P LED40S/840 POE ACC-MLO ACL SM1	4000 K	>80	112 lm/W	4100 lm
910504096103	SP482P LED40S/840 POE ACC-MLO ACL SMT1	4000 K	>80	112 lm/W	4100 lm
910505100282	SP480P LED35S/930 PSD ACC-MLO SM2 WH	3000 K	>90	118 lm/W	3500 lm
910505100283	SP480P LED35S/930	3000 K	>90	118 lm/W	3500 lm

Order Code	Full Product Name	Init. Corr. Color Temperature	Init. Color Rendering Index	Initial LED luminaire efficacy	Initial luminous flux
910505100284	SP482P LED40S/940 PSD ACC-MLO SM2 WH	4000 K	>90	121 lm/W	4000 lm
910505100442	SP482P LED40S/930 PSD ACC-MLO SM2	3000 K	>90	116 lm/W	4000 lm
910505100466	SP480P LED40S/940 PSD ACC-MLO SWZ SM2	4000 K	>90	118 lm/W	4000 lm
910505100467	SP482P LED50S/940 PSD ACC-MLO SWZ SM2	4000 K	>90	127 lm/W	5000 lm

### Initial Performance (IEC Compliant) (2/2)

Order Code	Full Product Name	Initial input power
910504095803	SP480P LED35S/840 POE ACC-MLO ACL SM1	32 W
910504095903	SP480P LED35S/840 POE ACC-MLO ACL SMT1	32 W
910504096003	SP482P LED40S/840 POE ACC-MLO ACL SM1	36.5 W
910504096103	SP482P LED40S/840 POE ACC-MLO ACL SMT1	36.5 W
910505100282	SP480P LED35S/930 PSD ACC-MLO SM2 WH	29.5 W

Order Code	Full Product Name	Initial input power
910505100283	SP480P LED35S/930 PSD ACC-MLO SM1 WH	29.5 W
910505100284	SP482P LED40S/940 PSD ACC-MLO SM2 WH	33 W
910505100442	SP482P LED40S/930 PSD ACC-MLO SM2	34.5 W
910505100466	SP480P LED40S/940 PSD ACC-MLO SWZ SM2	33 W
910505100467	SP482P LED50S/940 PSD ACC-MLO SWZ SM2	39.5 W

## SmartBalance, suspended

### Mechanical and Housing

Order Code	Full Product Name	Geometry
910504095803	SP480P LED35S/840 POE ACC-MLO ACL SM1	Width 0.24 m, length 1.34 m
910504095903	SP480P LED35S/840 POE ACC-MLO ACL SMT1	Width 0.24 m, length 1.34 m
910504096003	SP482P LED40S/840 POE ACC-MLO ACL SM1	Width 0.24 m, length 1.34 m
910504096103	SP482P LED40S/840 POE ACC-MLO ACL SMT1	Width 0.24 m, length 1.34 m
910505100282	SP480P LED35S/930 PSD ACC-MLO SM2 WH	-

Order Code	Full Product Name	Geometry
910505100283	SP480P LED35S/930 PSD ACC-MLO SM1 WH	-
910505100284	SP482P LED40S/940 PSD ACC-MLO SM2 WH	-
910505100442	SP482P LED40S/930 PSD ACC-MLO SM2	-
910505100466	SP480P LED40S/940 PSD ACC-MLO SWZ SM2	-
910505100467	SP482P LED50S/940 PSD ACC-MLO SWZ SM2	-

### Over Time Performance (IEC Compliant)

Order Code	Full Product Name	Median useful life L80B50	Median useful life L90B50
910504095803	SP480P LED35S/840 POE ACC-MLO ACL SM1	-	-
910504095903	SP480P LED35S/840 POE ACC-MLO ACL SMT1	-	-
910504096003	SP482P LED40S/840 POE ACC-MLO ACL SM1	-	-
910504096103	SP482P LED40S/840 POE ACC-MLO ACL SMT1	-	-
910505100282	SP480P LED35S/930 PSD ACC-MLO SM2 WH	50000 h	25000 h

Order Code	Full Product Name	Median useful life L80B50	Median useful life L90B50
910505100283	SP480P LED35S/930 PSD ACC-MLO SM1 WH	50000 h	25000 h
910505100284	SP482P LED40S/940 PSD ACC-MLO SM2 WH	50000 h	25000 h
910505100442	SP482P LED40S/930 PSD ACC-MLO SM2	-	-
910505100466	SP480P LED40S/940 PSD ACC-MLO SWZ SM2	-	-
910505100467	SP482P LED50S/940 PSD ACC-MLO SWZ SM2	-	-

