



# SmartBalance, suspended

## SP482P LED40S/830 PSD ACC-MLO SM2

SmartBalance Suspended Mounted, LED module, system flux 4000 lm, 830 warm white, Power supply unit with DALI interface, Acrylate micro-lens optic clear

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 minimise clutter on the ceiling and meets all relevant office norms.

#### **Warnings and Safety**

- The product is IPXO & 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

#### **Product data**

General Information		
Lamp family code	LED40S [LED module, system flux 4000 lm]	
Cap-Base	- [-]	
Light source replaceable	No	
Number of gear units	1 unit	
Gear	-	

Driver included	Yes
Remarks	*-Per Lighting Europe guidance paper
	"Evaluating performance of LED based
	luminaires - January 2018": statistically there
	is no relevant difference in lumen
	maintenance between B50 and for example

Datasheet, 2023, April 29 data subject to change

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Service tag         Yes         Refector material		B10. Therefore, the median useful life (B50)	Mechanical and Housing	
Potential products family code         94828 β Familt Ballance Suspended Mounts         Optical cover material         Activation           Lighting Fedendingsy         150         Global cover material         58 elect           Enheaded control         -         Housing Color         White           Eff mark         Yes         Operation of Mounts (Color         White           Flammability mark         For moreing in inemally flammable surfaces         Overall length         330 mm           EMEC mark         PRECIpits mark         Operations (Fellight Width North)         50 x 240 x 1340 mm           EME Consultant         The imperature 60°C, duration 5 in in ingress protection code         1840 (Wine-protected)           EMEC mark         400 in         Approval and Application         1940 (Wine-protected)           EME Consultant         100 in         Approval and Application         1940 (Wine-protected)           EME Consultant (Color Temperature) (Wine)         100 in         Approval and Application         1940 (Wine-protected)           Europh Student (Wine)         150 in Mark         Approval and Application         1940 (Wine-protected)           Color Red (Student) (Wine)         150 in Mark         1940 (Wine-protected)           Color Red (Student) (Wine)         150 in Mark         1940 (Wine-protected)           Co		value also represents the B10 value.	Housing Material	Polycarbonate
Ubblish Technology         LED         Optical cover material         Acyplate out of Execution         Acyplate out of Execution         Acyplate out of Execution         Stead of Color         With Color         With Color         With Color         With Color         With Color         With Color         Color and Color         With Color         Color and Color         With Color         Color and Co	Service tag	Yes	Reflector material	-
Value ladder         Specification         Fination material         Steel           Embedded contred         4 - 0         4 housing Color         White           CE mark         Yes         Opcidatower finish         15-40 trued           Warranty period         5 yeas         Opcidatower finish         15-40 trued           File Camark         6 NEC plos mork         Opcidatower (Height width)         50 mm           6 University         1 Empedator (Solventin)         50 mm           6 University         4 Empedator (Solventin)         50 mm           6 University         4 Controlled (Solventin)         50 mm           6 University         4 (Solventin)         1 (Solventin)           6 University         4 (Solventin)         5 (Solventin)           6 University         4 (Solventin)         5 (Solventin)           6 University	Product family code	SP482P [SmartBalance Suspended Mounted]	Optic material	-
Embedded control         9         Housing Calor         Mining         Certament         Certament         Featured         Certament         Add on management           EMEC mark         6 Penetrum enformally foarmoble surfaces         5 Penetrum enforcement         6 Penetrum enforcement         7 Penetrum enforcement </th <th>Lighting Technology</th> <th>LED</th> <th>Optical cover material</th> <th>Acrylate</th>	Lighting Technology	LED	Optical cover material	Acrylate
CE mark         Yes         Operal Length         Textured           Warranty period         5 years         Overall length         1340 nrm           Hammability mark         For mounting namable will your maily furnished         Overall length         240 mm           EMEC mark         Pixe Cybu mark         Overall width         240 mm           Glow-write test         Temperature 650°C, duration 5 s         Properation of the part of the p	Value ladder	Specification	Fixation material	Steel
Warranty period         5 years         Overall length         1,340 mm           Flammabilty mark         For mounting on normally frammable yarrante flow yarrante y	Embedded control	-	Housing Color	White
Formunability mark	CE mark	Yes	Optical cover finish	Textured
EMEC mark         Sin/Ec pour mark         Owerall height         50 x 240 x 1340 mm           Glow-wire test         1 monetaure 650 °C, duation 5 s         50 x 240 x 1340 mm           EU Roh'S compliant         Yes         Approval and Application           Light Technical         1 monetaure 650 °C, duation 5 s         1 monetaure 650 °C, duation 5 s           Light Technical         4 100 lm         1 monetaure 600 °C, duation 5 s           Light Technical         4 100 lm         7 monetaure 600 °C, duation 5 s           Liminous Eflux, Graded (Norm)         10 flow         1 monetaure (IEC Compliant)           Correlated Color Temperature (Norm)         10 flow         Initial chromaticity         (0.43, 0.40) SECM -3           Color rendering index (CRI)         980         Luminous flux tolerance         */10%           Rounders of light sources         1 degree (s)         (0.43, 0.40) SECM -3           Opick source color         3 30 wm while         */10%           Opick a Cover type         4 cyclor micro-lens copits clear         */10%           Opickal cover type         4 cyclor micro-lens copits clear         */10 cyclor mance (IEC Compliant)         */10%           Dimaria (light beam spread         100 cyclor micro-lens copits clear         */10 cyclor mance (IEC Compliant)         */10 cyclor micro-lens copits clear	Warranty period	5 years	Overall length	1,340 mm
ENEC mark         ENEC plus mark         Dimensions (Height x Width x Depth)         30 × 240 x 1340 mm           Glow-wire test         Temperature 650°C duration 5 s         4           LB Hord Scompliant         Yes         Approval and Application           LIght Technical         Impress protection code         IP40 [Wire-protected]           Commission Situation         3000 k         400 [Impress protection code         IP40 [Wire-protected]           Commission Efficacy (rated) (know)         3000 k         Technical         \$100 [Impress protection code         IP40 [Wire-protected]           Color rendering index (CRIN)         3000 K         Image: protection code         IP40 [Wire-protected]           Color rendering index (CRIN)         3000 K         Image: protection code         IP40 [Wire-protected]           Color rendering index (CRIN)         3000 K         Image: protection code         IP40 [Wire-protected]           Unification (SEC Compliant)         100 [Wire (Sec) (S	Flammability mark	For mounting on normally flammable	Overall width	240 mm
Glow-wire test         Temperature 680°C, duration 5 s         Approval and Application           EU RotS compliant         Yes         Approval and Application           Light Technical         Lingens protection code         IP40 [Wire-protected]           Correlated Color Temperature (Nom)         3000 K         Mech. Impact protection code         IP40 [Wire-protected]           Correlated Color Temperature (Nom)         3000 K         Initial Performance (IEC Compliant)         Color rendering index (CRI)         \$80         Luminous flux tolerance         1/-10%         Initial Performance (IEC Compliant)         Initial Performance (IEC Compliant)         Tolerance (IEC Compliant)         Initial Performance (IEC Compliant)         Initial Compliant         Initial Performance (IEC Compliant)         Initial Performance (IEC Compliant)         Initial Compliant         Initial		surfaces	Overall height	50 mm
EU RoHS compliant	ENEC mark	ENEC plus mark	Dimensions (Height x Width x Depth)	50 x 240 x 1340 mm
	Glow-wire test	Temperature 650 °C, duration 5 s		
Light Technical         Mech. Impact protection code         IKO2 (0.2.3 standard)           Luminous Elux         4,100 Im         Protection class IEC         Safety class I           Correlated Color Temperature (Nom)         10 fin //W         Imministry         Imministry         Imministry         Imministry         Imministry         Imministry         (Protection class IEC         Safety class I         The protection class IEC         Safety class I         The protection class IEC         Safety class I         Safety class I         The protection class IEC         Imministry         Imministry         Imministry         (Protect Compliant)         The protection class IEC         Imministry         (Protect Compliant)         The protection class IEC         The protection class IEC         Imministry         (Protect Compliant)         The protection class IEC         Imministry         (Protect Compliant)         The protection class IEC         The protection cla	EU RoHS compliant	Yes	Approval and Application	
Luminous Flux         4,100 lm         Protection class IEC         Safety class I           Correlated Cofor Temperature (Nom)         3000 K         Initial Performance (IEC Compliant)           Color rendering index (CRI)         >80         Luminous Effacacy (rated) (Nom)         11 file //W           Number of light sources         -10 degree(s)         Initial chromaticity         (0.43,0.40) SDCM-3           Beam angle of light source         -6 degree(s)         Power consumption tolerance         +7-10%           Optict yee         -6 Oyer Time Performance (IEC Compliant)         Control gear failure rate at median useful         5 %           Optical cover type         Acylate micro-lens optic clear         Control gear failure rate at median useful         5 %           Unified glare rating EQRN         160°         Ities 50000 h         Ities 50000 h           Unified glare rating EQRN         50 to 60 ft/2         Performance ambleint temperature 1g         25 °C           Inrush Current         48 A         Maximum dlin level         1%           Inrush current         910 to 60 ft/2         Maximum dlin level         1%           Power Consumption         92 ft         Product Data         Product Data           Connection         910 to 7 m without plug 5-pole white         Full product name         \$7482P LED40S/830 PSD ACC-MLO S			Ingress protection code	IP40 [Wire-protected]
Correlated Color Temperature (Nom)   10 lm //W   Initial Performance (IEC Compliant)	Light Technical		Mech. impact protection code	IK02 [0.2 J standard]
Luminous Efficacy (rated) (Nom)         116 Im/W         Initial Performance (IEC Compliant)           Color rendering index (CRI)         >80         Iuminous flux tolerance         +/-10%           Number of light sources         1         Initial chromaticity         (0.43, 0.40) SDCM <3           Beam angle of light source         - degree(s)         Power consumption tolerance         +/-10%           Upit type         -         Optical control gear failure rate at median useful         5           Uminate light beam spread         10°         Control gear failure rate at median useful         5           Uminate light beam spread         10°         Lumen maintenance at median useful         185           Unified glair rating CEN         16         Lumen maintenance at median useful         185           Unified glair rating CEN         16         Lumen maintenance at median useful         185           Unified glair rating CEN         16         Lumen maintenance at median useful         185           Unified glair rating CEN         16         Lumen maintenance at median useful         185           Unified glair rating CEN         49 A         Application Conditions         185           Limpt Frequency         50 to 60 Hz         Application Conditions         180           Linupt Frequency         48	Luminous Flux	4,100 lm	Protection class IEC	Safety class I
Luminous flux tolerance	Correlated Color Temperature (Nom)	3000 K		
Number of light sources 1 Beam angle of light source -degree(s)  Bight source color	Luminous Efficacy (rated) (Nom)	116 lm/W	Initial Performance (IEC Compliant)	
Beam angle of light source   -degree(s)   Power consumption tolerance   -7-10%	Color rendering index (CRI)	>80	Luminous flux tolerance	+/-10%
Light source color 830 warm white  Optic type - Over Time Performance (IEC Compliant) Optic type - Control gear failure rate at median useful 5 % Luminaire light beam spread 100° Luminaire light beam spread 100° Lumen maintenance at median useful 5 % Litré 50000 h Lumen maintenance at median useful 15 % Lumen maintenance at median useful 15 % Litré 50000 h Lumen maintenance at median useful 15 % Litré 50000 h Lumen maintenance at median useful 15 % Litré 50000 h Lumen maintenance at median useful 15 % Litré 50000 h Lumen maintenance at median useful 15 % Litré 50000 h Lumen maintenance at median useful 15 % Litré 50000 h Lumen maintenance at median useful 15 % Litré 50000 h Lumen maintenance at median useful 15 % Litré 50000 h Lumen maintenance at median useful 15 % Litré 50000 h Lumen maintenance at median useful 15 % Litré 50000 h Lumen maintenance at median useful 15 % Litré 50000 h Lumen maintenance at median useful 15 % Litré 50000 h Lumen maintenance at median useful 15 % Litré 50000 h Lumen maintenance at median useful 15 % Litré 50000 h Lumen maintenance at median useful 15 % Litré 50000 h Lumen maintenance at median useful 15 % Litré 50000 h Lumen maintenance at median useful 15 % Litré 50000 h Lumen maintenance at median useful 15 % Litré 50000 h Lumen maintenance at median useful 15 % Litré 50000 h Lumen maintenance at median useful 16 5 % Litré 50000 h Lumen maintenance at median useful 16 5 % Litré 50000 h Lumen maintenance at median useful 16 5 % Litré 50000 h Lumen maintenance at median useful 16 5 % Litré 50000 h Lumen maintenance at median useful 16 Litré 50000 h Lumen maintenance at median useful 18 Litré 50000 h Lumen maintenance at median useful 18 Litré 50000 h Lumen maintenance at median useful 18 Litré 50000 h Lumen maintenance at median useful 18 Litré 50000 h Lumen maintenance at median useful 18 Litré 50000 h Lumen maintenance at median useful 18 Litré 50000 h Lumen maintenance at median useful 18 Litré 50000 h Lumen maintenance at median useful 18 Litré 50000 h Lumen maintenance at me	Number of light sources	1	Initial chromaticity	(0.43, 0.40) SDCM <3
Optic type - Optical cover type Acrylate micro-lens optic clear   Luminarle light beam spread 100°   Unified glare rating CEN 16   Operating and Electrical   Input Voltage 20 to 240 V   Line Frequency 50 to 60 Hz   Inrush current 48 A   Inrush flumen Maintenance at median useful 15   Maximum dfin level 55   Maximum dfin level 15   Maximum dfin level 16   More random switching No 0  Product Data 0   Order product name   SP482P LED405/830 PSD ACC-MLO SM2   Full product code 87182912736220   Material Nr. (12NC) 9 010504085603    Material Nr. (12NC) 9 010504085603    Material Nr. (12NC) 9 010504085603    Material Nr. (12NC) 9 010504085603    Material Nr. (12NC) 9 010504085603    Material Nr. (12NC) 9	Beam angle of light source	- degree(s)	Power consumption tolerance	+/-10%
Optical cover type Acrylate micro-lens optic clear  Luminaire light beam spread 100°  Unified glare rating CEN 16  Operating and Electrical Input Voltage 220 to 240 V  Inrush current 48 A Maximum dim level 1%  Inrush current 0.180 ms  Power Consumption 25 W  Power Factor (Fraction) 0.9 Product Data  Connection Push-in connector 3-pole Order products on MCB of 16 A type 20  B	Light source color	830 warm white		
Luminaire light beam spread 100° Unified glare rating CEN 16  Lumen maintenance at median useful life* 50000 h  Lumen maintenance at median useful life* 50000 h  Operating and Electrical  Input Voltage 220 to 240 V Line Frequency 50 to 60 Hz Inrush current 48 A	Optic type		Over Time Performance (IEC Compli	ant)
Unified glare rating CEN   16	Optical cover type	Acrylate micro-lens optic clear	Control gear failure rate at median useful	5 %
Ities   50000 h	Luminaire light beam spread	100°	life 50000 h	
Input Voltage   220 to 240 V   Application Conditions	Unified glare rating CEN	16	Lumen maintenance at median useful	L85
Input Voltage 220 to 240 V Line Frequency 50 to 60 Hz Performance ambient temperature Tq 25 °C Inrush current 48 A Inrush time 0.180 ms Suitable for random switching No Power Consumption 35 W Power Factor (Fraction) 0.9 Product Data Connection Push-in connector 3-pole Order product name SP482P LED40S/830 PSD ACC-MLO SM2 Cable Cable 1.7 m without plug 5-pole white Full product name SP482P LED40S/830 PSD ACC-MLO SM2 Number of products on MCB of 16 A type 20 B Full product code 871829127362200  Push-in connector Special Push of the Advice Special Push of the			life* 50000 h	
Line Frequency 50 to 60 Hz Performance ambient temperature Tq 25 °C  Inrush current 48 A Maximum dim level 1%  Inrush time 0.180 ms Suitable for random switching No  Power Consumption 35 W  Power Factor (Fraction) 0.9 Product Data  Connection Push-in connector 3-pole Order product name SP482P LED40S/830 PSD ACC-MLO SM2  Cable Cable 1.7 m without plug 5-pole white Full product name SP482P LED40S/830 PSD ACC-MLO SM2  Number of products on MCB of 16 A type B  B  Temperature Tq 25 °C  Maximum dim level 1%  Suitable for random switching No  Product Data  Order product name SP482P LED40S/830 PSD ACC-MLO SM2  Full product name SP482P LED40S/830 PSD ACC-MLO SM2  Full product code 871829127362200  Order code 910504085603  Material Nr. (12NC) 910504085603  Material Nr. (12NC) 910504085603  Numerator - Quantity Per Pack 1  EAN/UPC - Product/Case 8718291273622  Numerator - Packs per outer box 1  EAN/UPC - Case 8718291273622  Numerator - Packs per outer box 1  EAN/UPC - Case 8718291273622  Control interface DALI	Operating and Electrical			
Inrush current       48 A       Maximum dim level       1%         Inrush time       0.180 ms       Suitable for random switching       No         Power Consumption       35 W         Power Factor (Fraction)       0.9       Product Data         Connection       Push-in connector 3-pole       Order product name       SP482P LED405/830 PSD ACC-MLO SM2         Cable       Cable 1.7 m without plug 5-pole white       Full product code       8718291273622000         B       Order code       910504085603         Temperature       Numerator - Quantity Per Pack       1         Ambient temperature range       +10 to +40 ℃       EAN/UPC - Product/Case       8718291273622         Numerator - Packs per outer box       1         Controls and Dimming       Yes         Driver/power unit/transformer       Power supply unit with DALI interface         Control interface       DALI	Input Voltage	220 to 240 V	Application Conditions	
Inrush time 0.180 ms  Power Consumption 35 W  Power Factor (Fraction) 0.9  Connection Push-in connector 3-pole Order product name SP482P LED40S/830 PSD ACC-MLO SM2  Cable Cable 1.7 m without plug 5-pole white Full product name SP482P LED40S/830 PSD ACC-MLO SM2  Number of products on MCB of 16 A type B  B  Corder code 910504085603  Temperature Ambient temperature range +10 to +40 °C  Controls and Dimming  Dimmable Yes  Driver/power unit/transformer Power supply unit with DALI interface  Control interface DALI	Line Frequency	50 to 60 Hz	Performance ambient temperature Tq	25 ℃
Power Consumption 35 W  Power Factor (Fraction) 0.9 Product Data  Connection Push-in connector 3-pole Order product name SP482P LED40S/830 PSD ACC-MLO SM2  Cable Cable 1.7 m without plug 5-pole white Full product name SP482P LED40S/830 PSD ACC-MLO SM2  Number of products on MCB of 16 A type B  B  Cable 1.7 m without plug 5-pole white Full product code 871829127362200  Order code 910504085603  Material Nr. (12NC) 910504085603  Material Nr. (12NC) 910504085603  Numerator - Quantity Per Pack 1  EAN/UPC - Product/Case 8718291273622  Numerator - Packs per outer box 1  Controls and Dimming  Dimmable Yes  Driver/power unit/transformer Power supply unit with DALI interface  Control interface DALI	Inrush current	48 A	Maximum dim level	1%
Power Factor (Fraction) O.9  Connection Push-in connector 3-pole Cable Cable Cable 1.7 m without plug 5-pole white Number of products on MCB of 16 A type B  Controls and Dimming Dimmable Ves Dimver/power unit/transformer Power supply unit with DALI interface Control interface  Push-in connector 3-pole Order product name SP482P LED40S/830 PSD ACC-MLO SM2 Full product name SP482P LED40S/830 PSD ACC-MLO SM2 Full product code 871829127362200 Order code 910504085603 Material Nr. (12NC) 910504085603  EAN/UPC - Product/Case 8718291273622 Numerator - Packs per outer box 1  EAN/UPC - Case 8718291273622  B718291273622  Numerator - Packs per outer box 1  EAN/UPC - Case B718291273622	Inrush time	0.180 ms	Suitable for random switching	No
Connection Push-in connector 3-pole Order product name SP482P LED40S/830 PSD ACC-MLO SM2  Cable Cable 1.7 m without plug 5-pole white Full product name SP482P LED40S/830 PSD ACC-MLO SM2  Number of products on MCB of 16 A type B  Full product code 871829127362200  Order code 910504085603  Material Nr. (12NC) 910504085603  Material Nr. (12NC) 910504085603  Temperature Numerator - Quantity Per Pack 1  EAN/UPC - Product/Case 8718291273622  Numerator - Packs per outer box 1  Controls and Dimming EAN/UPC - Case 8718291273622  Driver/power unit/transformer Power supply unit with DALI interface  Control interface DALI	Power Consumption	35 W		
Cable Cable 1.7 m without plug 5-pole white  Number of products on MCB of 16 A type B  Number of products on MCB of 16 A type B  Number of products on MCB of 16 A type B  Number of products on MCB of 16 A type B  Number of products on MCB of 16 A type B  Number of product code B71829127362200  Material Nr. (12NC) 910504085603  Material Nr. (12NC) 910504085603  Numerator - Quantity Per Pack 1  EAN/UPC - Product/Case 8718291273622  Numerator - Packs per outer box 1  Controls and Dimming EAN/UPC - Case 8718291273622  Driver/power unit/transformer Power supply unit with DALI interface  Control interface DALI	Power Factor (Fraction)	0.9	Product Data	
Number of products on MCB of 16 A type         20         Full product code         871829127362200           B         Order code         910504085603           Material Nr. (12NC)         910504085603           Temperature         Numerator - Quantity Per Pack         1           Ambient temperature range         +10 to +40 °C         EAN/UPC - Product/Case         8718291273622           Numerator - Packs per outer box         1           Controls and Dimming         EAN/UPC - Case         8718291273622           Dimmable         Yes           Driver/power unit/transformer         Power supply unit with DALI interface           Control interface         DALI	Connection	Push-in connector 3-pole	Order product name	SP482P LED40S/830 PSD ACC-MLO SM2
Driver/power unit/transformer   DALI	Cable	Cable 1.7 m without plug 5-pole white	Full product name	SP482P LED40S/830 PSD ACC-MLO SM2
Temperature  Ambient temperature range +10 to +40 °C  EAN/UPC - Product/Case 8718291273622  Numerator - Packs per outer box 1  Controls and Dimming  EAN/UPC - Case 8718291273622  Dimmable Yes  Driver/power unit/transformer Power supply unit with DALI interface  Control interface DALI	Number of products on MCB of 16 A type	20	Full product code	871829127362200
Temperature  Ambient temperature range +10 to +40 °C  EAN/UPC - Product/Case 8718291273622  Numerator - Packs per outer box 1  Controls and Dimming  EAN/UPC - Case 8718291273622  Dimmable Yes  Driver/power unit/transformer Power supply unit with DALI interface  Control interface DALI	B	·	Order code	910504085603
Ambient temperature range +10 to +40 °C  EAN/UPC - Product/Case 8718291273622  Numerator - Packs per outer box 1  EAN/UPC - Case 8718291273622  Dimmable Yes  Driver/power unit/transformer Power supply unit with DALI interface  Control interface DALI			Material Nr. (12NC)	910504085603
Numerator - Packs per outer box 1  Controls and Dimming  EAN/UPC - Case 8718291273622  Dimmable Yes  Driver/power unit/transformer Power supply unit with DALI interface  Control interface DALI	Temperature		Numerator - Quantity Per Pack	1
Controls and Dimming  Dimmable  Yes  Driver/power unit/transformer  Power supply unit with DALI interface  Control interface  DALI	Ambient temperature range	+10 to +40 °C	EAN/UPC - Product/Case	8718291273622
Dimmable Yes  Driver/power unit/transformer Power supply unit with DALI interface  Control interface DALI			Numerator - Packs per outer box	1
Driver/power unit/transformer         Power supply unit with DALI interface           Control interface         DALI	Controls and Dimming		EAN/UPC - Case	8718291273622
Control interface DALI	Dimmable	Yes		
	Driver/power unit/transformer	Power supply unit with DALI interface		
Constant light output No	Control interface	DALI		
	Constant light output	No		

# SmartBalance, suspended

### Dimensional drawing



