![Philips Lighting logo]

SmartForm – top-class lighting in a fresh, appealing design

SmartForm LED BPS460

We all feel and perform better in a pleasant, comfortable working environment. Designed for use in offices, shops and schools, the SmartForm family of suspended luminaires combines best-in-class lighting with a clean, distinctive design.These ultra-flat luminaires are available with a choice of MASTER TL5, TL5 ECO or LED light sources in rectangular and square versions with direct/indirect lighting combinations. They can also be used to form light-lines and structures.With its wide choice of very efficient and comfortable micro-optics and covers, SmartForm suspended provides the ideal solution for every situation. Lighting controls can be added for further energy saving.

Benefits
• Top-class lighting performance meets all project requirements
• Fresh-looking design
• Energy-efficient

Features
• Very slim housing – only 47 mm deep
• State-of-the-art LED lighting
• High-efficiency optical covers
• Possibility to add lighting controls

Application
• Offices
• Shops
• Schools

Specifications

SmartForm LED BPS460

Type	BPS460
Light source	Non-replaceable LED module
Power	LED24: 25 W
	LED48: 47 W
Beam angle	80 - 100° (depending on configuration)
Luminous flux	1650 - 4300 lm (depending on configuration)
Correlated Color Temperature	4000 K
Color Rendering Index	≥ 80
Median useful life L70B50	70,000 hours
Median useful life L80B50	50,000 hours
Median useful life L90B50	25,000 hours
Driver failure rate	1% per 5000 hours
Average ambient temperature	+25 °C
Operating temperature range	+10ºC to +40ºC
Driver	Built-in

Mains voltage	230 or 240 V / 50-60 Hz
Material	Housing: zinc-coated steel
Color	White RAL 9016 based
	Optional white RAL 9010 or silver grey RAL 9006 based
Optical cover	1, 2-lamp version:
	- OLC micro-lens optic in polycarbonate cover (MLO-PC)
	- Linear lens array optic in polycarbonate cover (LIN-PC)
	3-lamp version:
	- OLC micro-lens optic made of acrylate (AC-MLO)
Connection	Push-in connection with pull relief (PIP)
	Cable, length 200 cm, with plug CEE7 (CCE)
Installation	Individual; suspended mounting with a set of two double steel-wire suspensions (SMS) or with a set of two single steel-wire suspensions (SMT1/SMT2), both with power cord and ceiling caps
	Through-wiring possible
	Installation without removing LED module and optic/cover
Remarks	Protection foil to protect the optic during installation

Versions

SmartForm BPS460 suspended luminaire with OLC micro-lens optic in polycarbonate cover (MLO-PC)

SmartForm BPS460 suspended luminaire with linear lens array optic in polycarbonate cover (LIN-PC)

SmartForm BPS460 suspended luminaire with OLC micro-lens optic in polycarbonate cover (MLO-PC)

SmartForm BPS460 suspended luminaire with polycarbonate micro-lens optic (PC-MLO/AC-MLO)

Product details

SmartForm LED BPS460

Application Conditions

Ambient temperature range	+10 to +40 °C
Average ambient temperature	25 °C
Maximum dim level	1%
Suitable for random switching	No

Approval and Application

Mech. impact protection code	IK07
Ingress protection code	IP40

Controls and Dimming

Dimmable	Yes

Operating and Electrical

Input Voltage	220 to 240 V

General Information

Beam angle of light source	- °
CE mark	CE mark
Parts colour	-
Protection class IEC	Safety class I
Driver included	Yes
Emergency lighting	No
ENEC mark	ENEC mark
Flammability mark	F
Embedded control	No
Light source replaceable	No
Number of gear units	1 unit
Number of light sources	1
Optic type	No
Product Family Code	BPS460
Standard RAL colour	Traffic white (9016)
Top reflector	No
Internal wiring	Standard

Initial Performance (IEC Compliant)

Initial chromaticy	(0.38, 0.38) SDCM <3
Init. Corr. Colour Temperature	4000 K
Init. Colour Rendering Index	≥80
Luminous flux tolerance	+/-10%

Mechanical and Housing

Colour	White

Over Time Performance (IEC Compliant)

Driver failure rate at 5000 h	1 %
Median useful life L80B50	50000 h
Median useful life L90B50	25000 h

General Information

Order Code	Full Product Name	Optical cover/ lens type	Glow-wire test	Lamp family code	UL mark
91552100	BPS460 LED24/840 PSD W16L124 MLO-PC SMT1	MLO-PC	Temperature 850 °C, duration 5 s	LED24	-
91558300	BPS460 LED24/840 PSD W16L124 MLO-PC SMT2	MLO-PC	Temperature 850 °C, duration 5 s	LED24	-
91553800	BPS460 LED24/840 PSD W16L124 LIN-PC SMT1	LIN-PC	Temperature 850 °C, duration 5 s	LED24	-
91559000	BPS460 LED24/840 PSD W16L124 LIN-PC SMT2	LIN-PC	Temperature 850 °C, duration 5 s	LED24	-
91554500	BPS460 LED24/840 PSD W22L124 MLO-PC SMT1	MLO-PC	Temperature 850 °C, duration 5 s	LED24	No
91560600	BPS460 LED24/840 PSD W22L124 MLO-PC SMT2	MLO-PC	Temperature 850 °C, duration 5 s	LED24	No
91562000	BPS460 LED48/840 PSD W22L124 MLO-PC SMT2	MLO-PC	Temperature 850 °C, duration 5 s	LED48	No
91556900	BPS460 LED48/840 PSD W33L124 AC-MLO SMT1	AC-MLO	Temperature 650 °C, duration 5 s	LED48	No
91563700	BPS460 LED48/840 PSD W33L124 AC-MLO SMS	AC-MLO	Temperature 650 °C, duration 5 s	LED48	No

Initial Performance (IEC Compliant)

SmartForm LED BPS460

Order Code	Full Product Name	Initial LED luminaire efficacy	Initial luminous flux	Initial input power
91552100	BPS460 LED24/840 PSD W16L124 MLO-PC SMT1	81 lm/W	1750 lm	21.5 W
91558300	BPS460 LED24/840 PSD W16L124 MLO-PC SMT2	81 lm/W	1750 lm	21.5 W
91553800	BPS460 LED24/840 PSD W16L124 LIN-PC SMT1	102 lm/W	2200 lm	21.5 W
91559000	BPS460 LED24/840 PSD W16L124 LIN-PC SMT2	102 lm/W	2200 lm	21.5 W
91554500	BPS460 LED24/840 PSD W22L124 MLO-PC SMT1	93 lm/W	2000 lm	21.5 W

Order Code	Full Product Name	Initial LED luminaire efficacy	Initial luminous flux	Initial input power
91560600	BPS460 LED24/840 PSD W22L124 MLO-PC SMT2	93 lm/W	2000 lm	21.5 W
91562000	BPS460 LED48/840 PSD W22L124 MLO-PC SMT2	93 lm/W	3500 lm	37.5 W
91556900	BPS460 LED48/840 PSD W33L124 AC-MLO SMT1	97 lm/W	3700 lm	38 W
91563700	BPS460 LED48/840 PSD W33L124 AC-MLO SMS	97 lm/W	3700 lm	38 W

Mechanical and Housing

Order Code	Full Product Name	Geometry
91552100	BPS460 LED24/840 PSD W16L124 MLO-PC SMT1	Width 0.16 m, length 1.24 m
91558300	BPS460 LED24/840 PSD W16L124 MLO-PC SMT2	Width 0.16 m, length 1.24 m
91553800	BPS460 LED24/840 PSD W16L124 LIN-PC SMT1	Width 0.16 m, length 1.24 m
91559000	BPS460 LED24/840 PSD W16L124 LIN-PC SMT2	Width 0.16 m, length 1.24 m
91554500	BPS460 LED24/840 PSD W22L124 MLO-PC SMT1	Width 0.22 m, length 1.24 m

Order Code	Full Product Name	Geometry
91560600	BPS460 LED24/840 PSD W22L124 MLO-PC SMT2	Width 0.22 m, length 1.24 m
91562000	BPS460 LED48/840 PSD W22L124 MLO-PC SMT2	Width 0.22 m, length 1.24 m
91556900	BPS460 LED48/840 PSD W33L124 AC-MLO SMT1	Width 0.33 m, length 1.24 m
91563700	BPS460 LED48/840 PSD W33L124 AC-MLO SMS	Width 0.33 m, length 1.24 m