



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

SmartForm LED BCS460

We all feel and perform better in a pleasant, comfortable working environment. Designed for use in offices, shops and schools, the SmartForm family of surface-mounted 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. 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 surface-mounted 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 BCS460

Type	BCS460
Light source	Philips Fortimo LED Line 3R
Power (steady state in W, +/- 10%)	LED24: 25 W LED48: 47 W
Beam angle	80-100° (depending on configuration)
Luminous flux	1650-4300 lm (depending on configuration)
Correlated Color	4000 K
Temperature	
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	+10 to +40 °C

Versions



SmartForm LED BCS460 surface-mounted luminaire with OLC micro-lens optic in polycarbonate cover (MLO-PC)



SmartForm LED BCS460 surface-mounted luminaire with linear lens array optic in polycarbonate cover (LIN-PC)



SmartForm LED BCS460 surface-mounted luminaire with OLC micro-lens optic in polycarbonate cover (MLO-PC)



SmartForm LED BCS460 surface-mounted luminaire with polycarbonate or acrylate micro-lens optic (PC-MLO, AC-MLO)

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Product details



Polycarbonate micro-lens optic

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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
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Operating and Electrical

Input Voltage	220 to 240 V
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General Information

Beam angle of light source	- °
CE mark	CE mark
Parts color	-
Protection class IEC	Safety class I (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	BCS460
Standard RAL color	Traffic white (9016)
Top reflector	No
Internal wiring	Standard

Initial Performance (IEC Compliant)

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

Mechanical and Housing

Color	White
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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 (1/2)

Order Code	Full Product Name	Cap-Base	Optical cover/lens type	Glow-wire test	Lamp family code
91547700	BCS460 LED24/840 PSD W16L124 MLO-PC	-	MLO-PC	850/5	LED24
91548400	BCS460 LED24/840 PSD W16L124 LIN-PC	-	LIN-PC	850/5	LED24
91549100	BCS460 LED24/840 PSD W22L124 MLO-PC	-	MLO-PC	850/5	LED24
91557600	BCS460 LED48/840 PSD W22L124 MLO-PC	-	MLO-PC	850/5	LED48
91551400	BCS460 LED48-/840 PSD W33L124 AC-MLO	-	AC-MLO	650/5	LED48

General Information (2/2)

SmartForm LED BCS460

Order Code	Full Product Name	UL mark
91547700	BCS460 LED24/840 PSD W16L124 MLO-PC	-
91548400	BCS460 LED24/840 PSD W16L124 LIN-PC	-
91549100	BCS460 LED24/840 PSD W22L124 MLO-PC	-

Order Code	Full Product Name	UL mark
91557600	BCS460 LED48/840 PSD W22L124 MLO-PC	-
91551400	BCS460 LED48-/840 PSD W33L124 AC-MLO	-

Initial Performance (IEC Compliant)

Order Code	Full Product Name	Initial LED luminaire efficacy	Initial luminous flux	Initial input power
91547700	BCS460 LED24/840 PSD W16L124 MLO-PC	81 lm/W	1750 lm	21.5 W
91548400	BCS460 LED24/840 PSD W16L124 LIN-PC	102 lm/W	2200 lm	21.5 W
91549100	BCS460 LED24/840 PSD W22L124 MLO-PC	93 lm/W	2000 lm	21.5 W

Order Code	Full Product Name	Initial LED luminaire efficacy	Initial luminous flux	Initial input power
91557600	BCS460 LED48/840 PSD W22L124 MLO-PC	93 lm/W	3500 lm	37.5 W
91551400	BCS460 LED48-/840 PSD W33L124 AC-MLO	97 lm/W	3700 lm	38 W

Mechanical and Housing

Order Code	Full Product Name	Geometry
91547700	BCS460 LED24/840 PSD W16L124 MLO-PC	W16L124
91548400	BCS460 LED24/840 PSD W16L124 LIN-PC	W16L124
91549100	BCS460 LED24/840 PSD W22L124 MLO-PC	W22L124

Order Code	Full Product Name	Geometry
91557600	BCS460 LED48/840 PSD W22L124 MLO-PC	W22L124
91551400	BCS460 LED48-/840 PSD W33L124 AC-MLO	W33L124

