



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

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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

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; clicking the luminaire into pre-screwed ceiling brackets Through-wiring possible Installation without removing LED module and optic/cover
Remarks	Protection foil to protect the optic during installation

Versions



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	- °
Cap-Base	-
CE mark	CE mark
Parts colour	-
Protection class IEC	Safety class I (I)
Driver included	Yes
Emergency lighting	No
ENEC mark	ENEC mark
Flammability mark	F
Glow-wire test	850/5
Lamp family code	LED24
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 colour	Traffic white (9016)
Top reflector	No
UL mark	-
Internal wiring	Standard

Initial Performance (IEC Compliant)

Initial chromaticity	(0.38, 0.38) SDCM <3
Init. Corr. Colour Temperature	4000 K
Init. Colour Rendering Index	≥80
Luminous flux tolerance	+/-10%
Initial input power	21.5 W

Mechanical and Housing

Colour	White
Geometry	W16L124

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
91547700	BCS460 LED24/840 PSD W16L124 MLO-PC	MLO-PC
91548400	BCS460 LED24/840 PSD W16L124 LIN-PC	LIN-PC

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Initial Performance (IEC Compliant)

Order Code	Full Product Name	Initial LED luminaire	
		efficacy	Initial luminous flux
91547700	BCS460 LED24/840 PSD W16L124 MLO-PC	81 lm/W	1750 lm

Order Code	Full Product Name	Initial LED luminaire	
		efficacy	Initial luminous flux
91548400	BCS460 LED24/840 PSD W16L124 LIN-PC	102 lm/W	2200 lm

