# **PHILIPS** Lighting



# SmartForm – topclass lighting in a fresh, appealing design

## SmartForm TCS460

We all feel and perform better in a pleasant, comfortable working environment. Designed for use in offices, shops and schools, the SmartForm family of surfacemounted 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 surface-mounted provides the ideal solution for every situation. Lighting controls can be added for further energy saving.

#### Benefits

- $\cdot$  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 lamps
- High-efficiency optics and covers
- $\boldsymbol{\cdot}$  Possibility to add lighting controls

### SmartForm TCS460

#### Application

- Offices
- Shops
- Schools
- 00110015

#### Specifications

Туре	TCS460 (light beam, light effect cover)	Housing configuration	Line end, 1 phase (LE1), for ending a line
Light source	Fluorescent:	(for line arrangements)	Line feature, 1 phase (LF1), for insertion in a line
	- 3 x or 4 x MASTER TL5 ECO / G5 / 13, 20 W (square version)	Optic	1, 2, 3, 4-lamp version:
	- 3 x or 4 x MASTER TL5 / G5 / 14, 24 W (square version)		- Micro OLC performer high-gloss optic (C8)
	- 1 x or 2 x MASTER TL5 ECO / G5 / 25, 32, 45, 50, 73 W		- Micro OLC performer semi-high-gloss optic (D8)
	(rectangular version)		- Micro OLC very high efficiency high-gloss optic (C8-VH)
	- 1 x or 2 x MASTER TL5 / G5 / 28, 35, 49, 54, 80 W (rectangular		- Micro OLC very high efficiency semi-high-gloss optic (D8-VH)
	version)		- Micro OLC excellent comfort high-gloss optic (C8-C)
Lamp included	Yes, TL5 ECO (lamp color 830 or 840)		- Micro OLC excellent comfort semi-high-gloss optic (D8-C)
	Yes, TL5 (lamp color 827/865, 830 or 840)		- Micro matt mirror, ribbed cross louvers (M2)
	No		- Micro high-efficiency mirror, ribbed cross louvers (M2-H)
Ballast	Electronic, 220 - 240 V / 50 - 60 Hz:		1, 2-lamp version:
	- High Frequency Performer (HFP)		- Micro OLC performer semi-high-gloss bi-directional optic
	- High Frequency Performer, intelligent, multi-watt (HFP-I)		with top reflector (T D8-BD)
	- High Frequency Regulator, 1-10 V (HFR)		- Micro high-efficiency asymmetrical optic (A)
	- High Frequency Regulator, DALI (HFD)		
	- High Frequency Regulator DALI, touch & dimming (HFD-T)		

#### Specifications

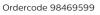
Optical cover	1, 2-lamp version:	Materials and color	Housing of powder coated steel, end-caps of PC-ABS			
	- OLC micro-lens optic in polycarbonate cover (MLO-PC)		White RAL 9016 based is standard; optional white RAL 9010 or			
	- Opal cover made of polycarbonate (PCO)		silver grey RAL 9006 based			
	3, 4-lamp version:	Installation	1- and 2- lamp luminaires to click into pre-screwed ceiling			
	- OLC micro-lens optic made of acrylic with very-high-		brackets (included)			
	reflectance top reflector (T-VH AC-MLO)		3- lamp (with bracket) and 4- lamp luminaires to screw direct			
	<ul> <li>OLC micro-lens optic made of polycarbonate with very-high- reflectance top reflector (T-VH PC-MLO)</li> <li>Opal satinized cover made of polycarbonate with very-high-</li> </ul>		into the ceiling 1-, 2- and 3- lamp light lines, straight and L-shape to create with ZCS460 CP/CPL coupling pieces; luminaires line-end (LE)			
				reflectance top reflector (T-VH PCO-SAT)		and line-feature (LF) are including connection and through-
				Connection	Push-in connection with pull relief (PIP)	
	Cable, length 200 cm, with plug CEE7 (CCE)	Remarks	Protection foil to protect the optic during installation			
Options	Emergency lighting: 1 hour (EL1), 3 hours (EL3)	Main applications	Office, education, healthcare, recreation, retail, industry			
	Lighting controls:					
	- Luxsense daylight controller micro (LXM)					
	- ActiLume multi controller (ACL)					
	Internal PVC free wiring (PVCFR)					
	Euro fuse (FU) included					

#### SmartForm TCS460

#### Accessories

Optical cover remover







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