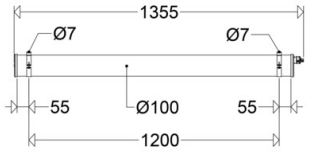
LED tubular light fitting

TUBEO
110 12L22 PC
[Item no. : 11000 0023]



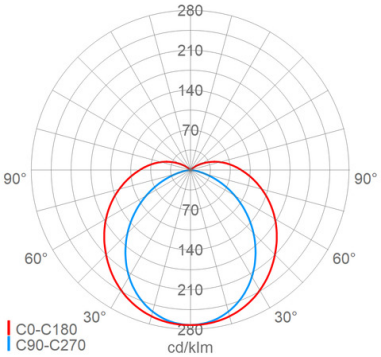
General product description

LED tubular light-fitting TUBEO with impact-resistant clear PC tube Ø 100mm, stainless steel locking caps, foamed silicone gasket and special element for length compensation. Powder-coated sheet steel reflector with Zhaga LED modules, frosted LED covers for glare limitation and ECG with overload and short circuit protection. Electrical connection by connection plug (FastConnect), male connector pre-installed, female with strain relief attached. Two stainless steel pipe clamps included.



General product benefits

- sturdy, extremely rugged tubular light fitting for application in rough environments
- dust- and pressure water-proof
- suitable for cleaning with high-pressure cleaner (IPX9K)
- high impact resistant PC tube for food areas, vandalism prone areas etc.
- for application in food industry areas, in accordance with IFS/BRC/VDMA standards, applicable without restrictions in plants, that have to fulfil the HACCP Concept
- highly efficient by using high-quality LED modules
- colour rendering index CRI>80, according to the workplace guidelines suitable for nearly all plant locations
- homogenous illumination due to frosted protective covers on the LED modules, comfortable perception of light and brilliant glare limitation
- FastConnect - quick connection without opening the light fitting
- variable mounting distances due to pipe clamps
- sustainable, interchangeable components
- future proof by using standardised Zhaga LED modules



Applications

- vandalism endangered areas in underground and railway stations, prisons, car parks, underpasses, public restrooms, schools, sports facilities etc.
- areas, which are endangered by water jets, e.g. docks, ships, slaughterhouses etc.
- food industry, food processing factories and suppliers to the food industry that have to fulfil IFS, BRC or HACCP standards or comparably strict requirements (e. g. production of food packaging). The light fitting is not sutiable for cleaning with cleaning and disinfection agents

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Technical data

General

EAN/GTIN:	4041254331690

Key technical data

Light source:	LED
LED module standard:	Zhaga
Exchangeability:	light source and control gear replaceable by qualified person
Connected load:	15 W
Luminaire luminous flux:	2390 lm
Luminous efficacy:	159 lm/W
Colour temperature:	4000 K
Colour rendering (CRI):	≥ 80
Light colour:	840
Admissible ambient temperature T_a:	-20 °C to +45 °C
Control gear:	1 x ECG, Overload protection, Short circuit protection
Energy efficiency class:	B
I LED max:	150 mA
BEG-eligible (Germany):	Yes

Lighting technology

Optical system:	Diffuser
Optical system material:	PMMA
Light distribution:	symmetrical wide beam
Beam angle:	120 °
Photobiological safety:	RG1

Service life

Service life LED:	L90>50000 h (@ Ta 25°C), L80>70000 h (@ Ta max), L70>100000 h (@ Ta max)

Electrical connection

Rated voltage:	220 - 240 V, 50/60 Hz
Terminal clamp:	Plug, 3-polig, 0,75 - 2,5 mm²
Max. no. with circuit breaker B16:	16
CB B10/B13/B20:	11/13/21
CB C10/C13/C16/C20:	16/21/27/33
Cable entries:	Plastic, 6 - 10 mm

Features/Certificates

Protection class:	I
IP rating:	IP68 (3m), IPX9K
IK rating:	4xIK10
Limited surface temperature D:	Yes
Approval marks:	CE

Mounting

Mounting method (accessories possibly needed):	Ceiling, Wall
Operating position:	horizontal, vertical
Mounting:	2-point
Special features:	2 stainless steel pipe clamps (included in scope of delivery)

Cover

Cover type / material:	Tube (PC)
Cover characteristic:	clear
Closure:	screwed (Stainless steel (1.4571))

Other features

International Food Standard (IFS):	Yes

Dimension/Weight

Length:	1355.00 mm
Width / Diameter:	133.00 mm
Height:	117.00 mm
Net weight:	4.40 kg

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Optional accessories / spare parts

Item no.	Item name	Item description
90272 9001	110 RO V P	2 pipe clamps stainless steel
90273 9001	ABD 110 036	spare tube PMMA for 110 12..
90273 9002	ABD 110 058	spare tube PMMA for 110 15..
90273 9003	ABD 110 036 PC	spare tube PC for 110 12..
90273 9004	ABD 110 058 PC	spare tube PC for 110 15..
90049 0002	183 S	hook stainless steel for chain mounting
90278 9001	110 SVDA-3	Plug-in connector double connection 3 pole