

SMIx



DATA SHEET



Product information

SMIx offers an optimal solution for street lighting. Taking advantage of Tungsram's proprietary modular refractive optic system, a wide range of light distributions can be achieved. The optimized mechanical design provides simple installation, adjustability, and reliability.

Application areas



Pedestrian street



Roadways
and Highways

Driver features

- Electronic, dimmable driver: Dali, DynaDim, CLO

Structures and materials

- Housing material: die-cast aluminium body and coupler, with stainless steel screws.
- Optic material: Optical-grade polycarbonate
- Optical cover: Tempered glass
- Colour: RAL7035
- Impact Strength: IK08 (glass) / IK09 (housing) / IK07 (Shorting Cap)

Electrical

Input voltage and frequency: 220-240V, 50-60Hz
Class I, Class II (no ENEC)
Surge protection: minimum 6kV/3kA
Rated input power: 35W to 160W

Installation and maintenance

Mounting options:

- Side mounting coupler for 30-60mm diameters and -15°, -10°, -5°, 0° tilt options
- Post top mounting coupler for 30-60mm diameters and 15°, 10°, 5°, 0° tilt options
- Weight: 8 kg
- Recommended mounting height: 4 - 15m
- Only two hand-tools required for installing the fixture
- Storage temperature up to 85°C.
- Ambient temperature from -40°C to +50°C

Optics

Available photometric distributions:

- C: optimized for high traffic ME class roads
- E: optimized for narrow S class roads
- F: optimized for wide S class roads

Rated colour rendering index > 70

Rated correlated colour temperatures*: 3000K, 4000K, 5000K
ULOR: 0

Rated initial chromaticity co-ordinate values:

- CIE(x=0.43, y=0.403) 5SDCM
- CIE(x= 0.38, y= 0.38) 5SDCM
- CIE(x= 0.34, y= 0.35) 5SDCM

Performance

- Rated luminous flux range: from 5010 to 22130 lm
- Rated luminaire efficacy: from 129 to 153lm/W
- Rated median useful life and the associated rated LM factor: > 54.000 hours at L90
- Rated median useful life and the associated rated LM factor: L80B10 > 115.000 hours
- Rated abrupt failure value: < 10% at 100.000 hours
- Abrupt light output degradation (C) < 10 at 100.000 hours
- Photometric code: 730/559, 740/559, 750/559
- Lumen maintenance code: 9
- Rated ambient temperature (tq) related to performance for a luminaire: 25°C
- Rated median useful life and the associated rated LM factor: L80B50 > 121.000 hours

*Definitions and tolerances according to IEC62722-2-1:2014

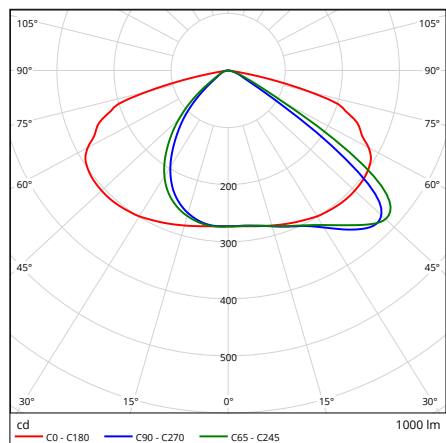
Standards and regulation

CE, ENEC, Directive 2014/30/EU, 2014/35/EU, 2009/125/EC, 1194/2012/EU, 2011/65/EC, EN 60598, EN 62471, EN 55015, EN 61000 (61000-3-2 and 61000-3-3), EN 62493, EN 61547, IEC 62031

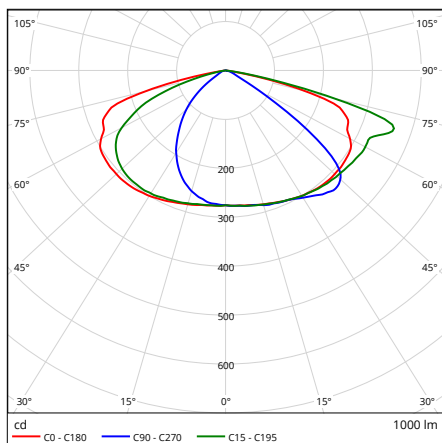
Other options available

Precabling, extra surge protection up to 10kV/5kA, NEMA socket with shorting cap

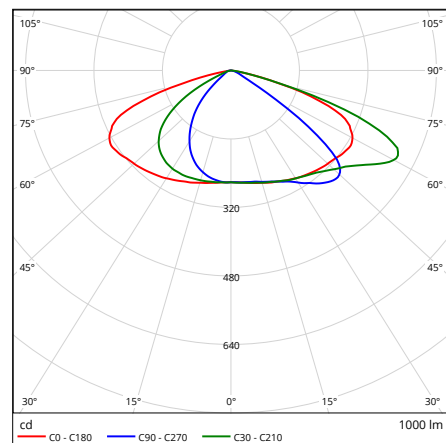
Typical photometrical features



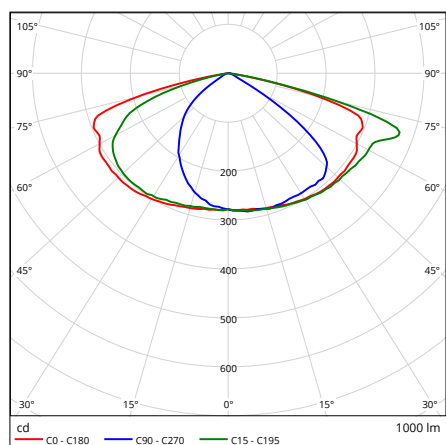
CCC



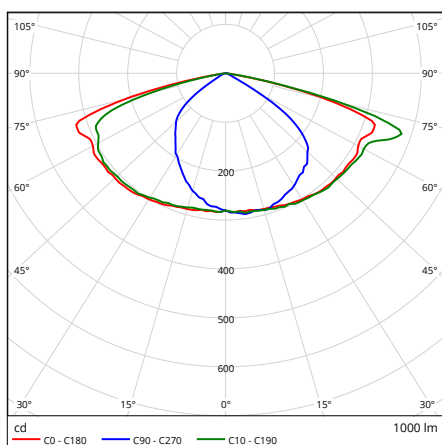
CEC



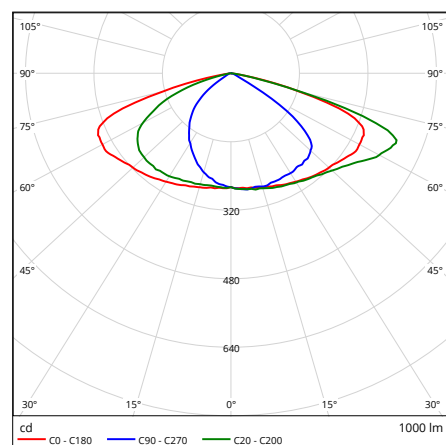
CFC



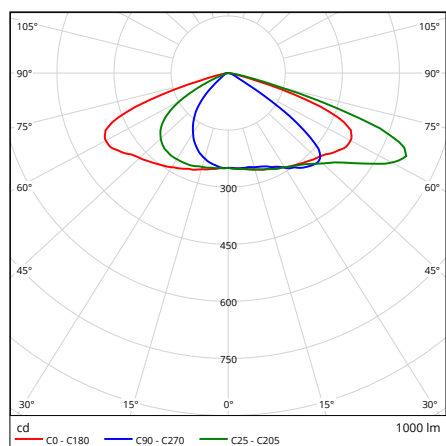
ECE



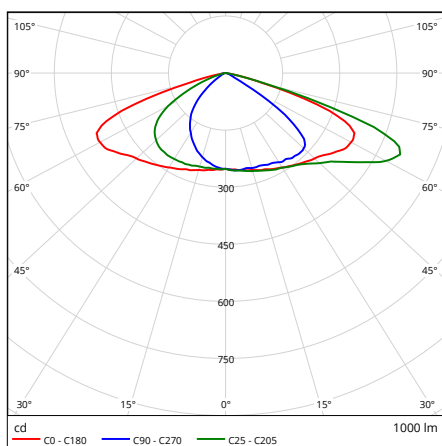
EEE



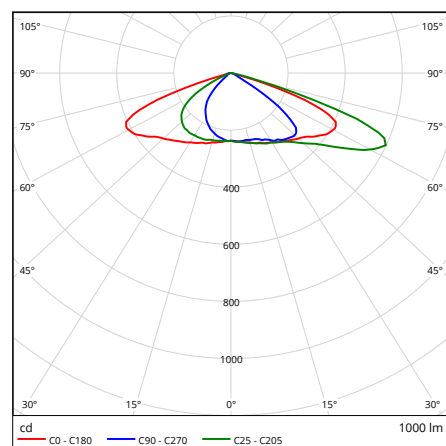
EFE



FCF

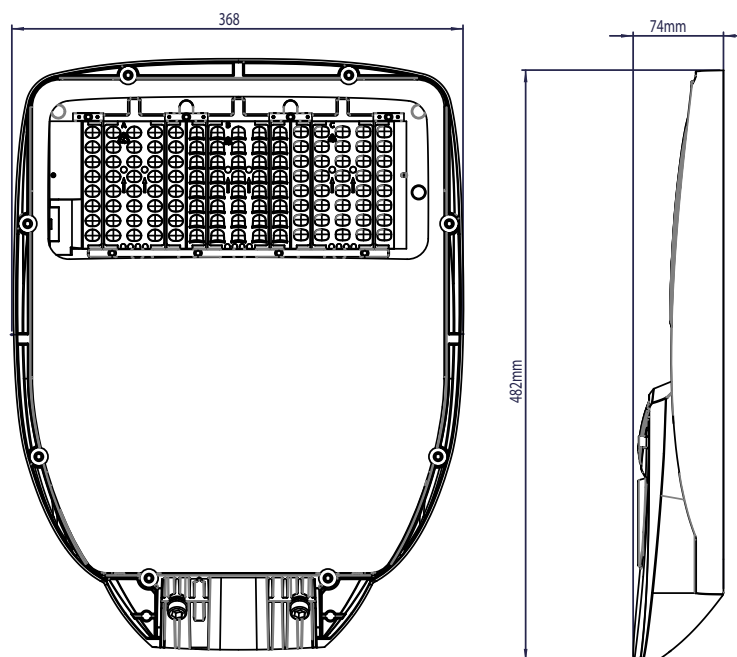


FEF



FFF

Dimensions (mm)



Order logic

Name	Gen.	Optics	Power (W) ***	CCT (K)	Control	Accessories	IEC protection classes	Preca-bling****	Mounting	Color
SMix	2				N - No control					
		CFC	35		D - DALI	ST - 6kV Surge immunity (built-in the driver)		PX - Pre cabling with X meters	U48 - Universal coupler 30-48 mm	R7035
		CEC	50		Yxx - DynaDIM *	SP - Enhanced surge voltage protection 10kV/5kA	C1 - Class I			
		CCC	65			LSP - NEMA socket with Shorting Cap + Enhanced Surge Voltage Protection 10kV/5kA	C2 - Class II	PCX - Pre cabling with X meters and connector	U60 - Universal coupler 50-60 mm	RXXX **
		FCF	80	30 - 3000K	NLxx - No control + CLO *					
		FEF	100	40 - 4000K						
		EEE	120	50 - 5000K	DLxx - DALI + CLO *					
		ECE	140		YLxx - DynaDIM + CLO *					
		EFE	160							
		FFF								

Example: SMix/2/FFF/140/40/D/ST/C1/PC3/U60/R7035

Exceptions:

* x is integer: 0-9

** Other RAL colors available on request

*** For rated power by specific SKU see IES files!

**** Precabing min 1m