

SMix



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

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:
L80B50 > 121.000 hours
- Rated useful life and the associated rated LM factor:
L80B10 > 115.000 hours
- Rated median useful life and the associated rated LM factor:
L90B50 > 54.000 hours
- Rated useful life and the associated rated LM factor:
L90B10 > 50.000 hours
L90B10 > 100.000 hours (Ta=12°C, 100mA max LED current)
- 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

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

Installation and maintenance

Mounting options:

- Side mounting with coupler for 42-60 diameters and -15°, -10°, -5°, 0°, 5°, 10°, 15° tilt options
- Post top mounting with coupler for 42-60 diameters and -15°, -10°, -5°, 0°, 5°, 10°, 15° tilt options
- Side mounting with coupler for 30-48 diameters and -15°, -10°, -5°, 0° tilt options
- Post top mounting with coupler for 30-48 diameters and 0°, 5°, 10°, 15° tilt options
- U76 coupler is available on request
- 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 wide high traffic M class roads
- E: optimized for narrow P class roads
- F: optimized for wide P class roads
- Q: optimized for narrow high traffic M class

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

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) / IK08 (Shorting Cap)

Electrical

Input voltage and frequency: 220-240V, 50-60Hz
Class I, Class II (no ENEC)
Surge protection: minimum 10kV/5kA
Rated input power: 35W to 160W
Power factor $\geq 0,9$

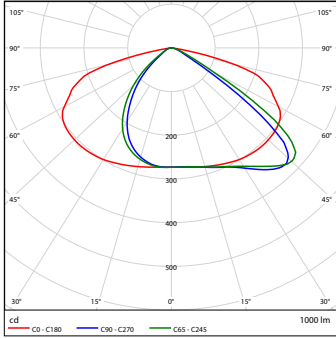
Standards and regulation

CE, ENEC, Directive 2014/30EU, 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

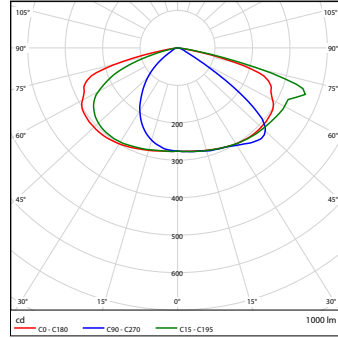
Other options available

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

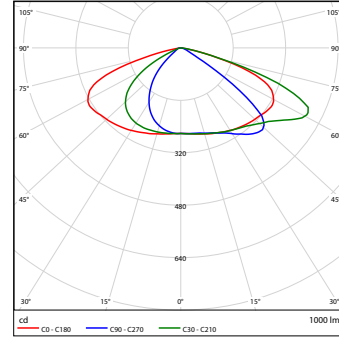
Typical photometrical features



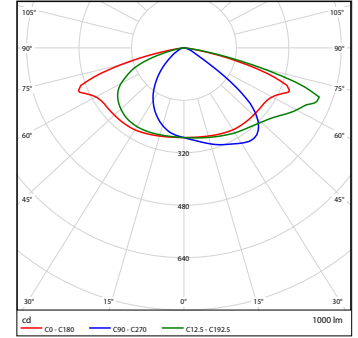
CCC



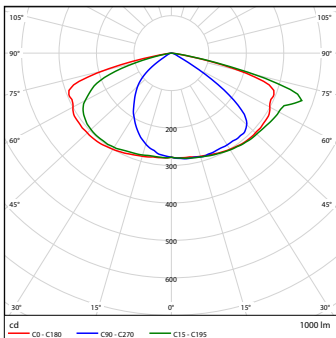
CEC



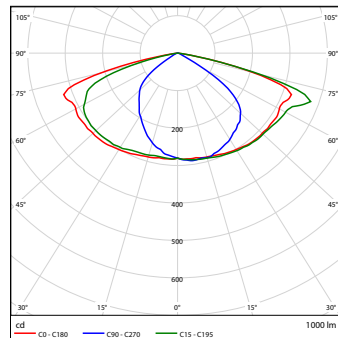
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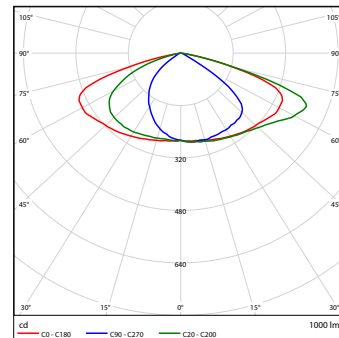
CQC



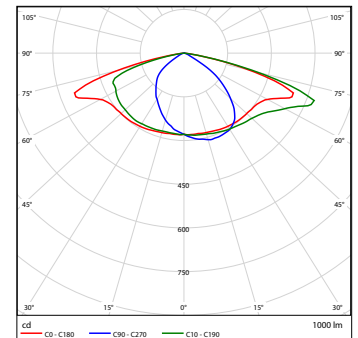
ECE



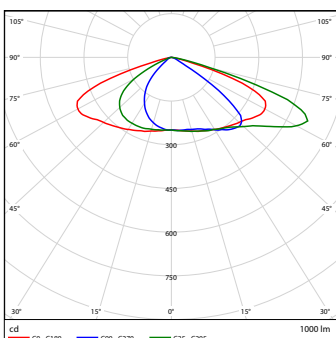
EEE



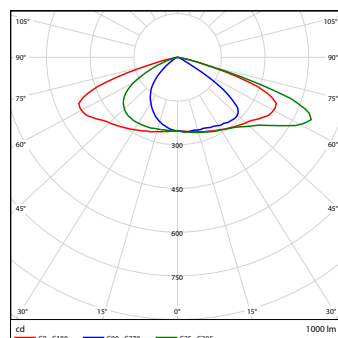
EFE



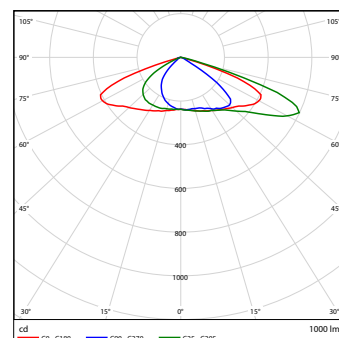
EQE



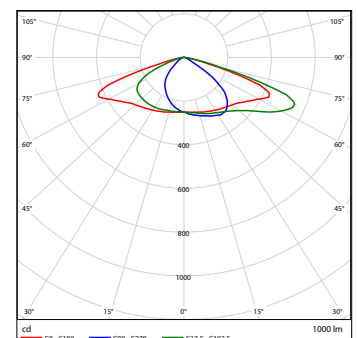
FCF



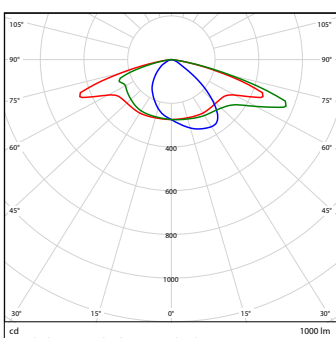
FEF



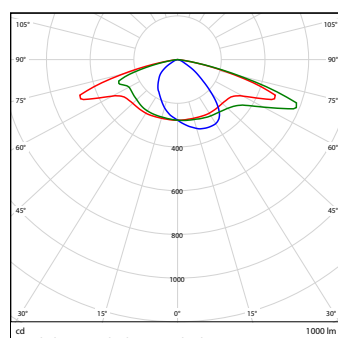
FFF



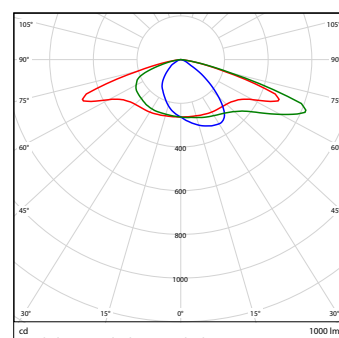
FQF



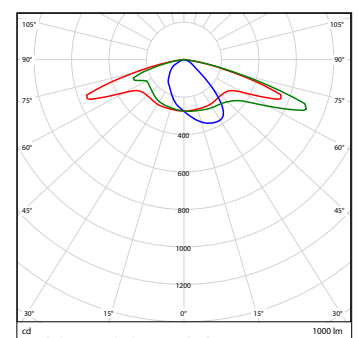
QCQ



QEQ

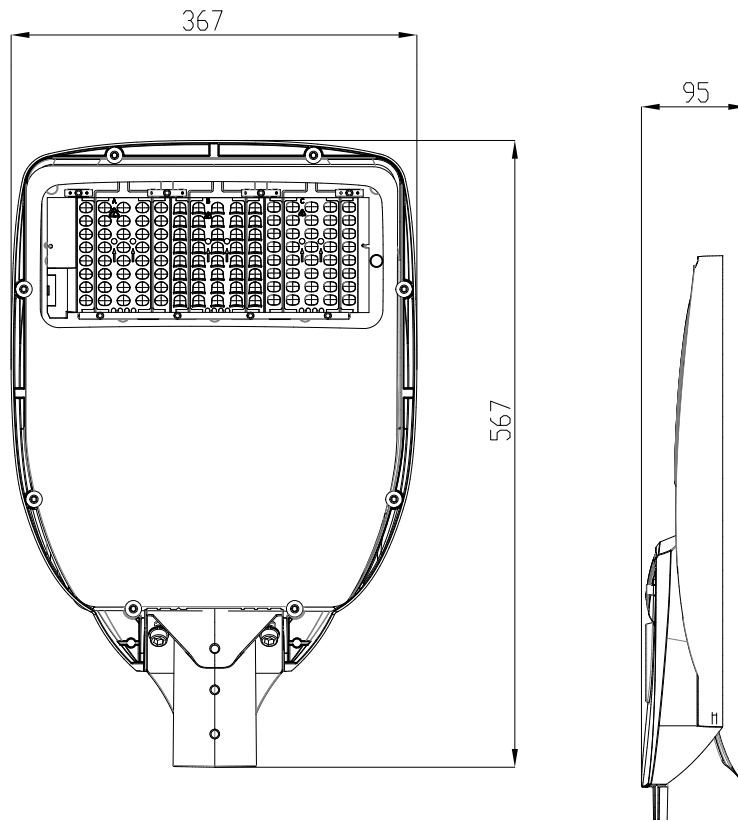


QFQ



QQQ

Dimensions (mm)



Order logic

Name	Gen.	Optics	Power Category (W) ⁽¹⁾	CCT (K)	Control	Accessories	IEC protection classes	Precabling ⁽⁵⁾	Mounting	Color
SMIx	2	CFC	35-160	30 - 3000K	N - No control	ST - Standard, 10kV Surge immunity (built-in the driver, EN 61547) SPx ⁽³⁾ - Enhanced Surge Voltage Protection LSPx ⁽³⁾ - NEMA socket with Shorting Cap + Enhanced Surge Voltage Protection	C1 - Class I C2 - Class II ⁽⁴⁾	PX- Pre cabling with X meters PCX- Pre cabling with X meters and connector	U48 - Universal coupler 30-48 mm U60 - Universal coupler 42-60 mm	R7035 RXXX ⁽⁶⁾
		CEC			D - DALI					
		CCC			Yxx - DynaDIM ⁽²⁾					
		FCF			DLxx - DALI + CLO ⁽²⁾					
		FEF			NLxx - No control + CLO ⁽²⁾					
		EEE			40 - 4000K					
		ECE			50 - 5000K					
		EFE			DLxx - DALI + CLO ⁽²⁾					
		FFF			YLxx - DynaDIM + CLO ⁽²⁾					
		FQF								
		QCQ								
		QEQ								
		QFQ								
QQQ										
EQE										
CQC										

Example: SMIx/2/EEE/140/40/D/ST/C1/PC3/U60/R7035

Exceptions:

⁽¹⁾ Power consumption of luminaire can be programmed by the manufacturer in 1W steps within the marked range.

⁽²⁾ x can be up to 3 characters

⁽³⁾ Leave "x" blank if it is standard (SPD). x=1 when it is built with varistors.

⁽⁴⁾ C2 is not valid with the followings: SP, LSP

⁽⁵⁾ Maximum precabbling length is 10m.

⁽⁶⁾ Leave it blank if it is standard. Other RAL colors available on request

⁽⁷⁾ Optional customer/project specific product identifier. It has no impact on technical features except in case of the SWE (Sweden specific tail and shorting cap are part of the product) and A (valid only with 80W and driver current is less than 525mA). A not valid with SP1 and LSP1. Leave it blank if it is standard.