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.

**Product information**

**Application areas**

- Pedestrian street
- Roadways and Highways

**Driver features**

- Electronic, dimmable driver: Dali, DynaDim, CLO

**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

**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

**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 ≥ 0,9

Standards and regulation

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

Typical photometrical features
### Order logic

<table>
<thead>
<tr>
<th>Name</th>
<th>Gen.</th>
<th>Optics</th>
<th>Power Category (W)&lt;sup&gt;1)&lt;/sup&gt;</th>
<th>CCT (K)</th>
<th>Control</th>
<th>Accessories</th>
<th>IEC protection classes</th>
<th>Precabling&lt;sup&gt;1)&lt;/sup&gt;</th>
<th>Mounting</th>
<th>Color</th>
<th>Customer&lt;sup&gt;5)&lt;/sup&gt;</th>
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<td>CFC</td>
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<td>30 - 3000K</td>
<td>N - No control</td>
<td>ST - Standard, 10kV Surge immunity (built-in the driver, EN 61547)</td>
<td>C1 - Class I</td>
<td>PX - Pre cabling with X meters</td>
<td>U48 - Universal coupler 30-48 mm</td>
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<td>40 - 4000K</td>
<td>D - DALI</td>
<td>Spx&lt;sup&gt;2)&lt;/sup&gt; - Enhanced Surge Voltage Protection</td>
<td>C2 - Class II&lt;sup&gt;4)&lt;/sup&gt;</td>
<td>PCX - Pre cabling with X meters and connector</td>
<td>U60 - Universal coupler 42-60 mm</td>
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<td>50 - 5000K</td>
<td>Yxx&lt;sup&gt;2)&lt;/sup&gt; - DynaDIM&lt;sup&gt;2)&lt;/sup&gt;</td>
<td>Lsp&lt;sup&gt;2)&lt;/sup&gt; - NEMA socket with Shorting Cap + Enhanced Surge Voltage Protection</td>
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<td>NLxx&lt;sup&gt;2)&lt;/sup&gt; - No control + CLO&lt;sup&gt;2)&lt;/sup&gt;</td>
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<td>Dlx&lt;sup&gt;2)&lt;/sup&gt; - DALI + CLO&lt;sup&gt;2)&lt;/sup&gt;</td>
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**Example:** SMix/2/EEE/140/40/D/ST/C1/PC3/U60/R7035

**Exceptions:**
- Power consumption of luminaire can be programmed by the manufacturer in 1W steps within the marked range.
- x can be up to 3 characters
- Leave “x” blank if it is standard (SPD), x=1 when it is built with varistors.
- C2 is not valid with the followings: SP, LSP
- Maximum precabling length is 10m.
- Leave it blank if it is standard.Other RAL colors available on request
- 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.