



## APPLICATION

Catenary luminaire is designed for suspended installation on a tensioned cable, providing an efficient solution for urban areas where traditional pole-mounted lighting is not suitable. Robust aluminium housing, adjustable mounting bracket and modern LED technology ensure reliable operation, high lighting efficiency and easy installation. Applications: streets, pedestrian zones, city centres, squares, parks, promenades, historical areas and other urban public spaces.

|                               |                            |                             |                     |                   |                        |                       |                            |
|-------------------------------|----------------------------|-----------------------------|---------------------|-------------------|------------------------|-----------------------|----------------------------|
| <b>5700 lm</b><br>SYSTEM FLUX | <b>34 W</b><br>INPUT POWER | <b>168 lm/W</b><br>EFFICACY | <b>3000K</b><br>CCT | <b>≥70</b><br>CRI | <b>IP66</b><br>INGRESS | <b>IK09</b><br>IMPACT | <b>100 000 h</b><br>L90B10 |
|-------------------------------|----------------------------|-----------------------------|---------------------|-------------------|------------------------|-----------------------|----------------------------|

## ELECTRICAL PARAMETERS

|                                        |                           |                                  |                         |
|----------------------------------------|---------------------------|----------------------------------|-------------------------|
| Nominal supply voltage                 | <b>230 (220–240) V AC</b> | Supply voltage range             | <b>198–264 V AC</b>     |
| Type of supply current                 | <b>AC</b>                 | Supply frequency                 | <b>50–60 Hz</b>         |
| Rated input power                      | <b>34W</b>                | Power factor (PF)                | <b>0.99</b>             |
| Driver efficiency at nominal load      | <b>92%</b>                | Total harmonic distortion (THDi) | <b>&lt;6%</b>           |
| Protection class (electric shock)      | <b>I</b>                  | Surge protection (CM / DM)       | <b>6/10 kV</b>          |
| Inrush current / time                  | <b>35.4A/122μs</b>        | Driver type                      | <b>Philips Xitanium</b> |
| Number of luminaires on MCB 16A type B | <b>&lt;30</b>             |                                  |                         |

## PHOTOMETRIC PARAMETERS

|                                 |                             |                                     |                      |
|---------------------------------|-----------------------------|-------------------------------------|----------------------|
| Luminous flux — system          | <b>5700lm</b>               | Luminous flux — LED module          | <b>6500lm</b>        |
| Luminous efficacy — system      | <b>168lm/W</b>              | Correlated colour temperature (CCT) | <b>3000K</b>         |
| Colour rendering index Ra (CRI) | <b>≥70</b>                  | Init. CRI tolerance                 | <b>±3</b>            |
| Light distribution type         | <b>Asymmetric</b>           | Luminaire beam spread               | <b>Wide beam</b>     |
| Optic type                      | <b>Catenary wide</b>        | Light output ratio (LOR)            | <b>0.87</b>          |
| Photobiological safety class    | <b>RG1</b>                  | Flicker — Output PstLM / SVM        | <b>≤ 0.8 / ≤ 0.1</b> |
| Colour consistency (SDCM)       | <b>&lt; 3 MacAdam steps</b> | Upward light output ratio (ULOR)    | <b>0</b>             |
| Luminous flux tolerance         | <b>±5 %</b>                 |                                     |                      |

## CONSTRUCTION &amp; MATERIALS

|                          |                        |                                        |                               |
|--------------------------|------------------------|----------------------------------------|-------------------------------|
| Luminaire type           | <b>Street</b>          | Light source type                      | <b>LED</b>                    |
| Light source replaceable | <b>yes</b>             | Cap / base type                        | <b>Integrated</b>             |
| Housing material         | <b>Aluminium alloy</b> | Housing coating                        | <b>Powder coating</b>         |
| Optic material           | <b>PMMA</b>            | Optical cover material                 | <b>Tempered flat glass</b>    |
| Housing colour (RAL)     | <b>RAL 7035,DB703</b>  | Mounting type                          | <b>Suspended on the rope</b>  |
| Cutout size              | <b>N/A</b>             | Overall dimensions (H × W × L)         | <b>500x500x286mm</b>          |
| Weight (net)             | <b>7.5kg</b>           | Windage projection area (side / below) | <b>0,020 sq.m/ 0,785 sq.m</b> |
| Number of light sources  | <b>2 pcs</b>           | Number of gear units                   | <b>1 pcs</b>                  |

## PROTECTION &amp; ENVIRONMENT

|                             |                     |                            |                     |
|-----------------------------|---------------------|----------------------------|---------------------|
| IP rating — enclosure       | <b>IP66</b>         | Impact resistance class IK | <b>IK09</b>         |
| Operating temperature range | <b>-40...+35 °C</b> | Storage temperature range  | <b>-40...+65 °C</b> |
| Glow-wire test              | <b>650 °C / 5 s</b> | Relative humidity (max)    | <b>N/A</b>          |

## CONTROL & DIMMING

|                                          |                              |                                   |                                          |
|------------------------------------------|------------------------------|-----------------------------------|------------------------------------------|
| Dimmable                                 | <b>YES</b>                   | Control protocol / interface      | <b>on/off</b>                            |
| Dimming range                            | <b>10-100%</b>               | Auto-dimming (chronoSTEP)         | <b>Yes, 5 step</b>                       |
| Built-in motion / presence sensor        | <b>On request</b>            | Built-in daylight sensor          | <b>On request</b>                        |
| LED lumen maintenance compensation (CLO) | <b>Available, On request</b> | ZHAGA / NEMA socket compatibility | <b>Available on request. Up and down</b> |

## RELIABILITY & LIFETIME

|                                      |                              |                                       |                        |
|--------------------------------------|------------------------------|---------------------------------------|------------------------|
| Constant Light Output (CLO)          | <b>Available, On request</b> | Light source lifetime                 | <b>100000@L90 B10h</b> |
| Lumen maintenance @ 50 000 h         | <b>L95B5</b>                 | Lumen maintenance @ 100 000 h         | <b>L90 B10</b>         |
| Control gear failure rate @ 50 000 h | <b>5 %</b>                   | Control gear failure rate @ 100 000 h | <b>10%</b>             |
| Maximum case temperature Tc          | <b>75°C</b>                  |                                       |                        |

## CERTIFICATIONS

|                   |                    |                                      |                  |
|-------------------|--------------------|--------------------------------------|------------------|
| Warranty period   | <b>5 years</b>     | CE marking                           | <b>CE marked</b> |
| ENEC mark         | <b>No</b>          | ENEC+ mark                           | <b>No</b>        |
| UKCA marking      | <b>UKCA marked</b> | D4i certified (DALI)                 | <b>No</b>        |
| EU RoHS compliant | <b>Yes</b>         | Light source energy efficiency class | <b>C</b>         |

## STANDARDS & SUSTAINABILITY

|                     |                         |                   |                                                  |
|---------------------|-------------------------|-------------------|--------------------------------------------------|
| Applicable standard | <b>EN-IEC 62722-2-2</b> | Application areas | <b>Streets, city centres, yards and squares.</b> |
|---------------------|-------------------------|-------------------|--------------------------------------------------|

**Environmental data.** Embedded carbon, recyclable content and sustainability ratings are provided per article where determined.

**Documents.** Photometric files (IES / LDT) and installation instructions are available at [takton.ee](http://takton.ee).