

**DKS850 7350lm 42W A 730 I NB1T 40-60 IC0**

Asymmetric · 3000K · IP66 · IK09 · RAL 7035,DB703

Length **624 mm****APPLICATION**

VIKING GEN2 is a premium LED street luminaire engineered for maximum efficiency, reliability and long service life. Designed for roads, urban streets, residential areas, parking facilities and industrial sites, it combines high-performance optics with intelligent control options to deliver outstanding lighting quality while minimizing energy consumption. The luminaire is Zhaga-D4i certified and supports modern smart city applications. Manufactured and assembled in the European Union using premium components from leading European suppliers, VIKING GEN2 offers exceptional flexibility for every project. A wide range of optics, lumen packages, colour temperatures and mounting options allows precise adaptation to different road classes and lighting requirements. Philips Xitanium drivers with DALI, CLO, AstroDIM and Zhaga Book 18 compatibility provide future-ready lighting management and easy integration with connected lighting systems. The robust die-cast aluminium housing, IP66 ingress protection and high surge protection ensure reliable operation even in harsh environments. With system efficacy of up to 180 lm/W, a service life of up to 100,000 hours (L90B10) and low maintenance requirements, VIKING GEN2 delivers one of the lowest total costs of ownership for modern street lighting installations.

|                               |                            |                             |                     |                   |                        |                       |                            |
|-------------------------------|----------------------------|-----------------------------|---------------------|-------------------|------------------------|-----------------------|----------------------------|
| <b>7350 lm</b><br>SYSTEM FLUX | <b>42 W</b><br>INPUT POWER | <b>175 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>42W</b>                | Power factor (PF)                | <b>0.99</b>             |
| Driver efficiency at nominal load      | <b>93%</b>                | Total harmonic distortion (THDi) | <b>&lt;9%</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>7350lm</b>               | Luminous flux — LED module          | <b>8400lm</b>        |
| Luminous efficacy — system      | <b>175lm/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>Asymmetrical street</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 & 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>Post-top, side-entry</b>   |
| Cutout size              | <b>N/A</b>             | Overall dimensions (H × W × L)         | <b>624(501)x240x108</b>       |
| Weight (net)             | <b>5.3kg</b>           | Windage projection area (side / below) | <b>0,020 sq.m/ 0,132 sq.m</b> |
| Number of light sources  | <b>3 pcs</b>           | Number of gear units                   | <b>1 pcs</b>                  |

## PROTECTION & 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>          |
| Vibration endurance         | <b>PASS</b>         |                            |                     |

## CONTROL & DIMMING

|                                          |                              |                                   |                                          |
|------------------------------------------|------------------------------|-----------------------------------|------------------------------------------|
| Dimmable                                 | <b>YES</b>                   | Control protocol / interface      | <b>Zhaga D4i, DALI</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>ENEC marked</b> | ENEC+ mark                           | <b>ENEC+ marked</b>     |
| UKCA marking      | <b>UKCA marked</b> | D4i certified (DALI)                 | <b>D4i Zhaga marked</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> | ETIM Class                | <b>Not determined</b> |
| Recyclable content ratio | <b>Not determined</b>   | Non-virgin material ratio | <b>Not determined</b> |
| Sustainability rating    | <b>Not determined</b>   | EAN / UPC                 | <b>Not determined</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](https://takton.ee).