

**APPLICATION**

DTS115 COMBILINE DTS115 COMBILINE is a modular continuous-row lighting system designed for warehouses, production facilities, retail areas and other large commercial or industrial spaces. The system combines high luminous efficacy with flexible configuration, allowing luminaires with different light distributions, power levels and control options to be installed within the same lighting line. A wide selection of LEDIL optics enables precise adaptation to the application—from narrow-beam illumination for high-bay warehouses to wide and asymmetrical distributions for production areas, aisles and retail spaces. Microprismatic and low-glare optics are available for applications requiring enhanced visual comfort. The modular construction simplifies installation, maintenance and future reconfiguration of the lighting system. Individual luminaires can be repositioned or replaced without rebuilding the complete line. DTS115 can also be supplied as a standalone IP65 luminaire for dusty or demanding environments. The system is manufactured in Europe using high-quality BJB connectors, efficient LED modules and reliable Philips or TCI drivers. DALI control, emergency lighting and sensor-based control are available as options. Different colour temperatures, CRI levels and lumen packages make DTS115 COMBILINE a versatile solution for both new projects and lighting renovations.

|                                |                            |                             |                      |                   |                        |                       |                            |
|--------------------------------|----------------------------|-----------------------------|----------------------|-------------------|------------------------|-----------------------|----------------------------|
| <b>12500</b> lm<br>SYSTEM FLUX | <b>83</b> W<br>INPUT POWER | <b>151</b> lm/W<br>EFFICACY | <b>4000</b> K<br>CCT | <b>≥80</b><br>CRI | <b>IP40</b><br>INGRESS | <b>IK05</b><br>IMPACT | <b>100 000</b> h<br>L90B10 |
|--------------------------------|----------------------------|-----------------------------|----------------------|-------------------|------------------------|-----------------------|----------------------------|

**ELECTRICAL PARAMETERS**

|                                        |                           |                                  |                          |
|----------------------------------------|---------------------------|----------------------------------|--------------------------|
| Nominal supply voltage                 | <b>230 (220–240) V AC</b> | Supply voltage range             | <b>220–240 V AC</b>      |
| Type of supply current                 | <b>AC</b>                 | Supply frequency                 | <b>50 / 60 Hz</b>        |
| Rated input power                      | <b>83W</b>                | Power factor (PF)                | <b>0.95</b>              |
| Driver efficiency at nominal load      | <b>0.92</b>               | Total harmonic distortion (THDi) | <b>&lt;10%</b>           |
| Protection class (electric shock)      | <b>I</b>                  | Driver type                      | <b>Integrated driver</b> |
| Number of luminaires on MCB 16A type B | <b>30</b>                 |                                  |                          |

**PHOTOMETRIC PARAMETERS**

|                                 |                              |                                     |                             |
|---------------------------------|------------------------------|-------------------------------------|-----------------------------|
| Luminous flux — system          | <b>12500lm</b>               | Luminous flux — LED module          | <b>13889lm</b>              |
| Luminous efficacy — system      | <b>151lm/W</b>               | Correlated colour temperature (CCT) | <b>4000 K</b>               |
| Colour rendering index Ra (CRI) | <b>≥80</b>                   | Init. CRI tolerance                 | <b>±3</b>                   |
| Light distribution type         | <b>Symmetric</b>             | Luminaire beam spread               | <b>FWHM 108°, FWTM 136°</b> |
| Optic type                      | <b>PMMA LEDIL 2-row lens</b> | Light output ratio (LOR)            | <b>0.88–0.92</b>            |
| Photobiological safety class    | <b>RG1</b>                   | Flicker — Output PstLM / SVM        | <b>≤0.1 / ≤0.2</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>Trunking luminaire</b> | Light source type                      | <b>LED</b>                |
| Light source replaceable       | <b>Yes</b>                | Cap / base type                        | <b>Integrated</b>         |
| Housing material               | <b>Aluminium profile</b>  | Reflector material                     | <b>N/A</b>                |
| Housing coating                | <b>Powder coating</b>     | Optic material                         | <b>PMMA</b>               |
| Optical cover material         | <b>N/A</b>                | Housing colour (RAL)                   | <b>Dark grey RAL 7016</b> |
| Mounting type                  | <b>Surface, suspended</b> | Cutout size                            | <b>N/A</b>                |
| Overall dimensions (H × W × L) | <b>Length 1400 mm</b>     | Weight (net)                           | <b>4.1 kg</b>             |
| Effective projected area       | <b>N/A</b>                | Windage projection area (side / below) | <b>N/A</b>                |
| Number of light sources        | <b>2 pcs</b>              | Number of gear units                   | <b>1 pcs</b>              |

## PROTECTION & ENVIRONMENT

|                             |                       |                            |                     |
|-----------------------------|-----------------------|----------------------------|---------------------|
| IP rating — enclosure       | <b>IP40</b>           | Impact resistance class IK | <b>IK05</b>         |
| Operating temperature range | <b>-20 ... +50 °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>No</b>  | Control protocol / interface      | <b>On/off</b> |
| Dimming range                            | <b>N/A</b> | Auto-dimming (chronoSTEP)         | <b>No</b>     |
| Built-in motion / presence sensor        | <b>No</b>  | Built-in daylight sensor          | <b>No</b>     |
| LED lumen maintenance compensation (CLO) | <b>No</b>  | ZHAGA / NEMA socket compatibility | <b>N/A</b>    |

## RELIABILITY & LIFETIME

|                                      |                       |                                       |                           |
|--------------------------------------|-----------------------|---------------------------------------|---------------------------|
| Constant Light Output (CLO)          | <b>No</b>             | Light source lifetime                 | <b>100000 @ L90 B10 h</b> |
| Lumen maintenance @ 50 000 h         | <b>Not determined</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>&lt;10 %</b>           |

## CERTIFICATIONS

|                                      |                       |                    |                                                                         |            |
|--------------------------------------|-----------------------|--------------------|-------------------------------------------------------------------------|------------|
| Warranty period                      | <b>5 years</b>        | Maintenance access | <b>Opening with screw; LED modules replaceable by manufacturer only</b> |            |
| CE marking                           | <b>Yes</b>            | ENEC mark          |                                                                         | <b>No</b>  |
| ENEC+ mark                           | <b>No</b>             | UKCA marking       |                                                                         | <b>Yes</b> |
| D4i certified (DALI)                 | <b>No</b>             | EU RoHS compliant  |                                                                         | <b>Yes</b> |
| Light source energy efficiency class | <b>Not determined</b> |                    |                                                                         |            |

## STANDARDS & SUSTAINABILITY

|                          |                                                                                                          |                           |                       |
|--------------------------|----------------------------------------------------------------------------------------------------------|---------------------------|-----------------------|
| Applicable standard      | <b>EN-IEC 62722-2-1</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> |
| Application areas        | <b>Offices, schools, warehouses, public spaces, retail, hotels, residences and industrial facilities</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).