

# DWL-LC\_120 4050Lm 29W I 830 IP50 PMMA EMG2W3H

Symmetric · 3000 K · IP50 · IK05 · White



Length 70 mm

## APPLICATION

DWL-LC is a high-output linear surface-mounted LED luminaire developed for efficient lighting of warehouses, production areas, workshops, technical rooms and other large indoor spaces. The opal PMMA diffuser provides wide and uniform light distribution while reducing visible glare. Available in 1200 mm and 1500 mm versions, the range delivers up to 10,300 lumens with efficacy up to 167 lm/W. DALI, 1–10 V, motion sensor, wireless control and three-hour emergency lighting options allow DWL-LC to be configured for a wide variety of projects. Its high efficiency and straightforward installation make it an effective replacement for conventional fluorescent luminaires.

|                               |                            |                             |                      |                   |                        |                       |                            |
|-------------------------------|----------------------------|-----------------------------|----------------------|-------------------|------------------------|-----------------------|----------------------------|
| <b>4050 lm</b><br>SYSTEM FLUX | <b>29 W</b><br>INPUT POWER | <b>140 lm/W</b><br>EFFICACY | <b>3000 K</b><br>CCT | <b>≥80</b><br>CRI | <b>IP50</b><br>INGRESS | <b>IK05</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>29</b>                 | Power factor (PF)                      | <b>0.95</b>                 |
| Driver efficiency at nominal load | <b>92%</b>                | Total harmonic distortion (THDi)       | <b>&lt; 10% @ full load</b> |
| Protection class (electric shock) | <b>I</b>                  | Surge protection (CM / DM)             | <b>4/2 kV</b>               |
| Driver type                       | <b>TCI</b>                | Number of luminaires on MCB 16A type B | <b>45</b>                   |

## PHOTOMETRIC PARAMETERS

|                                 |                             |                                     |                    |
|---------------------------------|-----------------------------|-------------------------------------|--------------------|
| Luminous flux — system          | <b>4050lm</b>               | Luminous flux — LED module          | <b>4400lm</b>      |
| Luminous efficacy — system      | <b>140lm/W</b>              | Correlated colour temperature (CCT) | <b>3000 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>120.0°</b>      |
| Optic type                      | <b>N/A</b>                  | Light output ratio (LOR)            | <b>0,90</b>        |
| Photobiological safety class    | <b>RG0</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>N/A</b>         |
| Luminous flux tolerance         | <b>±5 %</b>                 |                                     |                    |

## CONSTRUCTION & MATERIALS

|                                |                           |                                        |                   |
|--------------------------------|---------------------------|----------------------------------------|-------------------|
| Luminaire type                 | <b>Surface mounted</b>    | Light source type                      | <b>LED</b>        |
| Light source replaceable       | <b>yes</b>                | Cap / base type                        | <b>Integrated</b> |
| Housing material               | <b>PC</b>                 | Reflector material                     | <b>N/A</b>        |
| Housing coating                | <b>N/A</b>                | Optic material                         | <b>PMMA</b>       |
| Optical cover material         | <b>N/A</b>                | Housing colour (RAL)                   | <b>White</b>      |
| Mounting type                  | <b>Surface, suspended</b> | Cutout size                            | <b>N/A</b>        |
| Overall dimensions (H × W × L) | <b>70x90x1205</b>         | Weight (net)                           | <b>1.5kg</b>      |
| Effective projected area       | <b>N/A</b>                | Windage projection area (side / below) | <b>N/A</b>        |
| Number of light sources        | <b>1 pcs</b>              | Number of gear units                   | <b>1 pcs</b>      |

## PROTECTION & ENVIRONMENT

|                             |                     |                            |                     |
|-----------------------------|---------------------|----------------------------|---------------------|
| IP rating — enclosure       | <b>IP50</b>         | Impact resistance class IK | <b>IK05</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      | No  | Control protocol / interface      | on/off     |
| Dimming range | N/A | Built-in motion / presence sensor | on request |

#### RELIABILITY & LIFETIME

|                                       |                 |                                      |        |
|---------------------------------------|-----------------|--------------------------------------|--------|
| Light source lifetime                 | 100000@L90 B10h | Lumen maintenance @ 50 000 h         | L80B10 |
| Lumen maintenance @ 100 000 h         | L70 B10         | Control gear failure rate @ 50 000 h | 5 %    |
| Control gear failure rate @ 100 000 h | 10 %            | Maximum case temperature Tc          | 75°C   |

#### CERTIFICATIONS

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

#### STANDARDS & SUSTAINABILITY

|                     |                  |                   |                                                  |
|---------------------|------------------|-------------------|--------------------------------------------------|
| Applicable standard | EN-IEC 62722-2-1 | Application areas | Industry, warehouses, parkings, general lighting |
|---------------------|------------------|-------------------|--------------------------------------------------|

**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.