# DCW097 120 6000lm 38W 840 I PMMA IP66

Symmetric · 4000 K · IP66 · IK05 · RAL 7035



## APPLICATION

DCW097 is a robust, chemical-resistant waterproof LED luminaire for industrial and general-purpose applications, resistant to ammonia exposure. GRP housing with PMMA diffuser as standard and PC diffuser as an option. High efficiency up to 169 lm/W, 4000 K, CRI ≥80, symmetric light distribution and IP66 protection. Available with On/Off or DALI control, emergency lighting and through-wiring options.

| 6000 lm | 38 W | 158 lm/W | 4000 K | ≥80 | IP66 | IK05 | 50 000 h |
|---|---|---|---|---|---|---|---|
| SYSTEM FLUX | INPUT POWER | EFFICACY | CCT | CRI | INGRESS | IMPACT | L90B10 |

## ELECTRICAL PARAMETERS

| | | | |
|---|---|---|---|
| Nominal supply voltage | **230 (220–240) V AC** | Supply voltage range | **198–264 V AC** |
| Type of supply current | **AC** | Supply frequency | **50–60 Hz** |
| Rated input power | **38W** | Power factor (PF) | **0.95** |
| Driver efficiency at nominal load | **92%** | Total harmonic distortion (THDi) | **< 10% @ full load** |
| Protection class (electric shock) | **I** | Surge protection (CM / DM) | **4/2 kV** |
| Driver type | **TCI** | Number of luminaires on MCB 16A type B | **45** |

## PHOTOMETRIC PARAMETERS

| | | | |
|---|---|---|---|
| Luminous flux — system | **6000lm** | Luminous flux — LED module | **6700lm** |
| Luminous efficacy — system | **158lm/W** | Correlated colour temperature (CCT) | **4000 K** |
| Colour rendering index Ra (CRI) | **≥80** | Init. CRI tolerance | **±3** |
| Light distribution type | **Symmetric** | Luminaire beam spread | **120.0°** |
| Optic type | **N/A** | Light output ratio (LOR) | **0,90** |
| Photobiological safety class | **RG0** | Flicker — Output PstLM / SVM | **≤0.1 / ≤0.2** |
| Colour consistency (SDCM) | **< 3 MacAdam steps** | Upward light output ratio (ULOR) | **N/A** |
| Luminous flux tolerance | **±5 %** | | |

## CONSTRUCTION & MATERIALS

| | | | |
|---|---|---|---|
| Luminaire type | **Dust/Waterproof** | Light source type | **LED** |
| Light source replaceable | **yes** | Cap / base type | **Integrated** |
| Housing material | **GRP** | Reflector material | **N/A** |
| Housing coating | **N/A** | Optic material | **PMMA** |
| Optical cover material | **N/A** | Housing colour (RAL) | **RAL 7035** |
| Mounting type | **Surface, suspended** | Cutout size | **N/A** |
| Overall dimensions (H × W × L) | **99x100x1185** | Weight (net) | **1.5kg** |
| Effective projected area | **N/A** | Windage projection area (side / below) | **N/A** |
| Number of light sources | **1 pcs** | Number of gear units | **1 pcs** |

## PROTECTION & ENVIRONMENT

| | | | |
|---|---|---|---|
| IP rating — enclosure | **IP66** | Impact resistance class IK | **IK05** |
| Operating temperature range | **-40...+35 °C** | Storage temperature range | **-40...+65 °C** |
| Glow-wire test | **650 °C / 5 s** | Relative humidity (max) | **N/A** |

## 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 | **50000 @ L80 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** | ETIM Class | **EC002892** |
| D-Mark (EN 60598-2-24) | **Yes** | Non-virgin material ratio | **Not determined** |
| Sustainability rating | **Not determined** | EAN / UPC | **Not determined** |
| 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.