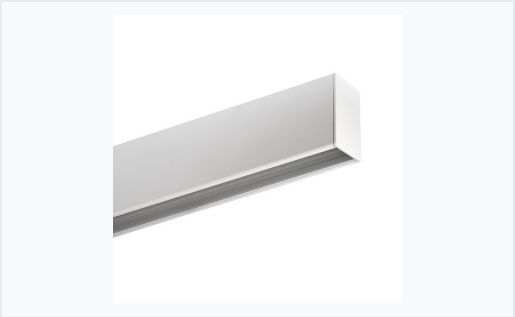
LS450 · LINEAR PROFILE LUMINAIRES

# LS450 _120 6300lm 40W I 840 S 110D

Symmetric · 4000 K · IP40 · IK05 · any RAL on request



## APPLICATION

LS450 CLARLINE is a versatile linear luminaire designed particularly for wall washing, classroom boards, presentation walls and other applications requiring uniform vertical illumination with minimal glare and reflections. Available with asymmetric, double-asymmetric, 60° and 110° optics, it is also suitable for general lighting, corridors, retail areas, shelving and workspaces. Its minimalist aluminium housing with smooth die-cast end caps supports surface-mounted, suspended or track installation. LS450 is available with CRI 80/90, 3000K/4000K or Tunable White 2700–6500K, with DALI, Touch and Dim, Corridor Mode and Casambi-compatible control options. High-quality LEDIL optics, OSRAM LED modules and Philips Xitanium drivers ensure efficient and reliable long-term operation.

| 6300 lm | 40 W | 158 lm/W | 4000 K | ≥80 | IP40 | IK05 | 100 000 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 | **40W** | Power factor (PF) | **0.98** |
| Driver efficiency at nominal load | **92%** | Total harmonic distortion (THDi) | **<10%** |
| Protection class (electric shock) | **I** | Inrush current / time | **5A 50µsec** |
| Driver type | **TCI** | Number of luminaires on MCB 16A type B | **45** |

## PHOTOMETRIC PARAMETERS

| | | | |
|---|---|---|---|
| Luminous flux — system | **6300lm** | Luminous flux — LED module | **7400lm** |
| 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 | **110°** |
| Optic type | **110D** | Photobiological safety class | **RG1** |
| Flicker — Output PstLM / SVM | **≤0.1 / ≤0.2** | Colour consistency (SDCM) | **< 3 MacAdam steps** |
| Upward light output ratio (ULOR) | **0** | Luminous flux tolerance | **±5 %** |

## CONSTRUCTION & MATERIALS

| | | | |
|---|---|---|---|
| Luminaire type | **Linear suspended** | Light source type | **LED** |
| Light source replaceable | **yes** | Cap / base type | **Integrated** |
| Housing material | **Aluminium profile** | Housing coating | **Powder coating** |
| Optic material | **PMMA** | Housing colour (RAL) | **any RAL on request** |
| Mounting type | **Surface-mounted, suspended, track** | Number of gear units | **1 pcs** |

## PROTECTION & ENVIRONMENT

| | | | |
|---|---|---|---|
| IP rating — enclosure | **IP40** | 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** |
| Built-in motion / presence sensor | **Easyair sensor on request** | | |

## RELIABILITY & LIFETIME

| | | | |
|---|---|---|---|
| Light source lifetime | **100000@L90 B10h** | Lumen maintenance @ 50 000 h | **L95B5** |
| Lumen maintenance @ 100 000 h | **L90 B10** | Control gear failure rate @ 50 000 h | **46 %** |
| Control gear failure rate @ 100 000 h | **10%** | Maximum case temperature Tc | **75°C** |

## CERTIFICATIONS

| | | | |
|---|---|---|---|
| Warranty period | **5 years** | CE marking | **CE marked** |
| ENEC mark | **No** | ENEC+ mark | **No** |
| UKCA marking | **UKCA marked** | D4i certified (DALI) | **No** |
| EU RoHS compliant | **Yes** | | |

## STANDARDS & SUSTAINABILITY

| | | | |
|---|---|---|---|
| Applicable standard | **EN-IEC 62722-2-43** | ETIM Class | **Not determined** |
| D-Mark (EN 60598-2-24) | **Not determined** | Non-virgin material ratio | **Not determined** |
| Sustainability rating | **Not determined** | EAN / UPC | **Not determined** |
| Application areas | **Classroom boards, presentation walls, displays, corridors, retail, shelving and workspaces** | | |

**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.