DWL-LC · SURFACE MOUNTED

DWL-LC _120 6800Lm 49W I 840 IP50 PMMA DALI

Symmetric · 4000 K · IP50 · IK05 · White



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.

6800 lm	49 W	4000 K	≥80	IP50	IK05	100 000 h
SYSTEM FLUX	INPUT POWER	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	**49W**	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	**Philips Xitanium**	Number of luminaires on MCB 16A type B	**20**

PHOTOMETRIC PARAMETERS

Luminous flux — system	**6800lm**	Luminous flux — LED module	**7400lm**
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	**Surface mounted**	Light source type	**LED**
Light source replaceable	**yes**	Cap / base type	**Integrated**
Housing material	**PC**	Reflector material	**N/A**
Housing coating	**N/A**	Optic material	**PMMA**
Optical cover material	**N/A**	Housing colour (RAL)	**White**
Mounting type	**Surface, suspended**	Cutout size	**N/A**
Overall dimensions (H × W × L)	**70x90x1205**	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	**IP50**	Impact resistance class IK	**IK05**
Operating temperature range	**-20...+35 °C**	Storage temperature range	**-40...+65 °C**
Glow-wire test	**650 °C / 5 s**	Relative humidity (max)	**N/A**

CONTROL & DIMMING

Dimmable	**Yes**	Control protocol / interface	**DALI, Touch & Dim**
Dimming range	**1-100%**	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**	ETIM Class	**EC002892**
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.