

DWL-LC_120 6800Lm 49W I 840 IP50 PMMA EMG2W3H

Symmetric · 4000 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.

6800 lm SYSTEM FLUX	49 W INPUT POWER	139 lm/W EFFICACY	4000 K CCT	≥80 CRI	IP50 INGRESS	IK05 IMPACT	100 000 h L90B10
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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	49	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	6800lm	Luminous flux — LED module	7400lm
Luminous efficacy — system	139lm/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	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	-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	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
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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.