DWL-R · SURFACE MOUNTED

DWL-R _360 2200lm 18W 840 OP IP65 PMMA EMG2W3H

Symmetric · 4000 K · IP65 · IK05 · White



APPLICATION

DWL-R is a robust round surface-mounted LED luminaire designed for reliable general lighting in demanding indoor areas. Its simple, functional design makes it suitable for parking garages, basements, staircases, corridors, storage rooms and utility spaces. The luminaire is available with an impact-resistant PC diffuser or a PMMA diffuser, providing uniform and comfortable light distribution. With IP65 protection, efficiency up to 120 lm/W and optional DALI control, motion sensor or emergency lighting, DWL-R offers an energy-efficient and low-maintenance replacement for conventional wall- and ceiling-mounted luminaires.

2200 lm	18 W	122 lm/W	4000 K	≥80	IP65	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	220–240 V AC
Type of supply current	AC	Supply frequency	50 / 60 Hz
Rated input power	18W	Power factor (PF)	0.93
Driver efficiency at nominal load	0.87	Total harmonic distortion (THDi)	<10%
Protection class (electric shock)	I	Inrush current / time	5A 50µsec
Driver type	Philips / TCI	Number of luminaires on MCB 16A type B	50

PHOTOMETRIC PARAMETERS

Luminous flux — system	2200lm	Luminous flux — LED module	2500lm
Luminous efficacy — system	122lm/W	Correlated colour temperature (CCT)	4000 K
Colour rendering index Ra (CRI)	≥80	Init. CRI tolerance	±3
Light distribution type	Symmetric	Luminaire beam spread	Wide beam
Optic type	OP	Photobiological safety class	RG0
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	Surface-mounted luminaire	Light source type	LED
Light source replaceable	No	Cap / base type	Integrated
Housing material	PMMA	Optic material	PMMA
Optical cover material	PMMA	Housing colour (RAL)	White
Mounting type	Surface-mounted	Overall dimensions (H × W × L)	90x360
Weight (net)	2.0 kg	Number of gear units	1 pcs

PROTECTION & ENVIRONMENT

IP rating — enclosure	IP65	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	No
Built-in daylight sensor	No		

RELIABILITY & LIFETIME

Light source lifetime	**50000 @ L80 B10 h**	Lumen maintenance @ 50 000 h	**L80 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 60598-2-1**	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	**Parking garages, basements, staircases, corridors, storage rooms and utility spaces**		

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.