DWL-R · SURFACE MOUNTED

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

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	**Yes**	Control protocol / interface	**DALI**
Dimming range	**1–100 %**	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.