

Length **90 mm****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.

2000 lm SYSTEM FLUX	18 W INPUT POWER	111 lm/W EFFICACY	3000 K CCT	≥80 CRI	IP65 INGRESS	IK05 IMPACT	50 000 h 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	2000lm	Luminous flux — LED module	2300lm
Luminous efficacy — system	111lm/W	Correlated colour temperature (CCT)	3000 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
Recyclable content ratio	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.