



Length 99 mm

APPLICATION

DCW097-DC24 is a robust waterproof luminaire for 12 VDC and 24 VDC electrical systems. It is designed for industrial and technical applications where standard 230 VAC power is unavailable or where lighting is supplied directly from batteries, accumulator systems or solar installations. The durable glass-fibre-reinforced polyester housing and PMMA diffuser provide IP66 protection against dust and water. A polycarbonate diffuser with increased impact resistance is available as an option. The luminaire provides wide 120° light distribution and is available with light outputs of 1500 lm and 3000 lm. DCW097-DC24 is suitable for warehouses, parking facilities, workshops, technical rooms, mobile installations and remote locations with autonomous power supplies.

1500 lm SYSTEM FLUX	13 W INPUT POWER	115 lm/W EFFICACY	4000 K CCT	≥80 CRI	IP66 INGRESS	IK05 IMPACT	50 000 h L90B10
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ELECTRICAL PARAMETERS

Nominal supply voltage	24VDC	Supply voltage range	12-24 V DC
Type of supply current	DC	Supply frequency	N/A
Rated input power	13W	Power factor (PF)	0.95
Driver efficiency at nominal load	92%	Protection class (electric shock)	II
Driver type	Mean Well		

PHOTOMETRIC PARAMETERS

Luminous flux — system	1500lm	Luminous flux — LED module	1700lm
Luminous efficacy — system	115lm/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)	0.9
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	Dust/Waterproof	Light source type	LED
Light source replaceable	yes	Cap / base type	Integrated
Housing material	GRP	Reflector material	N/A
Housing coating	N/A	Optic material	PMMA
Optical cover material	N/A	Housing colour (RAL)	RAL 7035
Mounting type	Surface, suspended	Cutout size	N/A
Overall dimensions (H × W × L)	99x100x1185	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	IP66	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

RELIABILITY & LIFETIME

Light source lifetime	50000 @ L80 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
Recyclable content ratio	Not determined	Non-virgin material ratio	Not determined
Sustainability rating	Not determined	EAN / UPC	Not determined

Application **Industry, warehouses, parkings, Emergency lighting areas**

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.