

Length **99 mm**

APPLICATION

DCW097-DC110 is a professional IP66 waterproof luminaire developed specifically for 110 VDC power networks. It is intended primarily for substations, power plants, battery rooms, control rooms and other critical infrastructure where lighting is supplied from a direct-current system. The luminaire delivers 3600 lm with a power consumption of 32 W and provides uniform wide-angle illumination. Its durable glass-fibre-reinforced polyester housing and PMMA diffuser ensure reliable operation in demanding industrial environments. A polycarbonate diffuser with increased impact resistance is available on request. The dedicated 110 VDC driver allows the luminaire to be connected directly to the DC network without an additional converter.

3600 lm SYSTEM FLUX	32 W INPUT POWER	113 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	110VDC	Supply voltage range	111 V DC
Type of supply current	DC	Supply frequency	N/A
Rated input power	32W	Power factor (PF)	0.95
Driver efficiency at nominal load	92%	Protection class (electric shock)	II
Driver type	Takton		

PHOTOMETRIC PARAMETERS

Luminous flux — system	3600lm	Luminous flux — LED module	4000lm
Luminous efficacy — system	113lm/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.