DCW097-DC110 · WATERPROOF- DIRECT CURRENT

DCW097-DC110 120 3600lm 32W 840 II IP66 PMMA

Symmetric · 4000 K · IP66 · IK05 · RAL 7035



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.

1500 lm	32 W	115 lm/W	4000 K	≥80	IP66	IK05	50 000 h
SYSTEM FLUX	INPUT POWER	EFFICACY	CCT	CRI	INGRESS	IMPACT	L90B10

ELECTRICAL PARAMETERS

Nominal supply voltage	**110VDC**	Supply voltage range	**110 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	**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**
D-Mark (EN 60598-2-24)	**Not determined**	Non-virgin material ratio	**Not determined**
Sustainability rating	**Not determined**	EAN / UPC	**Not determined**
Application areas	**Industry, warehouses, parkings, Emergency lighting**		

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.