DCW097-DC24 120 1500lm 13W 840 II OP IP66

Symmetric · 4000 K · IP66 · IK05 · RAL 7035



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	13 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	**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**
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.