

DCW097 120 8600LM 51W 840 I PMMA IP66 EMG3W3H

Symmetric · 4000 K · IP66 · IK05 · RAL 7035

Length **99 mm**

APPLICATION

DCW097 is a robust, chemical-resistant waterproof LED luminaire for industrial and general-purpose applications, resistant to ammonia exposure. GRP housing with PMMA diffuser as standard and PC diffuser as an option. High efficiency up to 169 lm/W, 4000 K, CRI ≥80, symmetric light distribution and IP66 protection. Available with On/Off or DALI control, emergency lighting and through-wiring options.

8600 lm SYSTEM FLUX	51 W INPUT POWER	169 lm/W EFFICACY	4000 K CCT	≥80 CRI	IP66 INGRESS	IK05 IMPACT	50 000 h L90B10
-------------------------------	----------------------------	-----------------------------	----------------------	-------------------	------------------------	-----------------------	---------------------------

ELECTRICAL PARAMETERS

Nominal supply voltage	230 (220–240) V AC	Supply voltage range	198–264 V AC
Type of supply current	AC	Supply frequency	50–60 Hz
Rated input power	51W	Power factor (PF)	0.95
Driver efficiency at nominal load	92%	Total harmonic distortion (THDi)	< 10% @ full load
Protection class (electric shock)	I	Surge protection (CM / DM)	4/2 kV
Driver type	TCI	Number of luminaires on MCB 16A type B	45

PHOTOMETRIC PARAMETERS

Luminous flux — system	8600lm	Luminous flux — LED module	9600lm
Luminous efficacy — system	169lm/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)	0,90
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	on request

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 areas	Industry, warehouses, parkings, general 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.