DCW114 · WATERPROOF LUMINAIRES

DCW114 120 14500lm 93W 840 I PMMA IP66 DALI

Symmetric · 4000 K · IP65 · IK05 · RAL 7035



APPLICATION

DCW114 is a high-performance IP66 waterproof LED luminaire for demanding industrial and agricultural environments where chemical resistance and durability are essential. Its corrosion-resistant GRP housing and PMMA diffuser provide protection against ammonia, detergents, disinfectants and humid conditions, making it particularly suitable for livestock, poultry and dairy farms, food processing, car washes, wastewater treatment, chemical and pharmaceutical plants and industrial facilities. Delivering up to 19,000 lm and 170 lm/W, DCW114 combines high efficiency with reliable long-term performance. Available options include DALI-2, emergency lighting, microwave motion sensors and through-wiring, providing flexibility for both new installations and renovation projects. Backed by a 5-year warranty and manufactured using high-quality European LED modules and drivers, the DCW114 Series is designed for long service life with minimal maintenance.

14500 lm	93 W	156 lm/W	4000 K	≥80	IP65	IK05	>100 000 h
SYSTEM FLUX	INPUT POWER	EFFICACY	CCT	CRI	INGRESS	IMPACT	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	**93W**	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	**Philips Xitanium**	Number of luminaires on MCB 16A type B	**24**

PHOTOMETRIC PARAMETERS

Luminous flux — system	**14500lm**	Luminous flux — LED module	**16150lm**
Luminous efficacy — system	**156lm/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)	**99x116x1277**	Weight (net)	**2.2kg**
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	**IP65**	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	**Yes**	Control protocol / interface	**DALI, Touch & Dim**
Dimming range	**10-100%**	Built-in motion / presence sensor	**on request**

RELIABILITY & LIFETIME

Light source lifetime	**>100000 @ L90 B10 h**	Lumen maintenance @ 50 000 h	**L98 B5**
Lumen maintenance @ 100 000 h	**L90 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)	**Yes**	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.