

**APPLICATION**

Catenary luminaire is designed for suspended installation on a tensioned cable, providing an efficient solution for urban areas where traditional pole-mounted lighting is not suitable. Robust aluminium housing, adjustable mounting bracket and modern LED technology ensure reliable operation, high lighting efficiency and easy installation. Applications: streets, pedestrian zones, city centres, squares, parks, promenades, historical areas and other urban public spaces.

8900 lm SYSTEM FLUX	50 W INPUT POWER	178 lm/W EFFICACY	4000K CCT	≥70 CRI	IP66 INGRESS	IK09 IMPACT	100 000 h L90B10
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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	50W	Power factor (PF)	0.99
Driver efficiency at nominal load	93%	Total harmonic distortion (THDi)	<9%
Protection class (electric shock)	I	Surge protection (CM / DM)	6/10 kV
Inrush current / time	45A/270µs	Driver type	Philips Xitanium
Number of luminaires on MCB 16A type B	<17		

PHOTOMETRIC PARAMETERS

Luminous flux — system	8900lm	Luminous flux — LED module	10100lm
Luminous efficacy — system	178lm/W	Correlated colour temperature (CCT)	4000K
Colour rendering index Ra (CRI)	≥70	Init. CRI tolerance	±3
Light distribution type	Asymmetric	Luminaire beam spread	Wide beam
Optic type	Catenary wide	Light output ratio (LOR)	0.87
Photobiological safety class	RG1	Flicker — Output PstLM / SVM	≤ 0.3 / ≤ 0.1
Colour consistency (SDCM)	< 3 MacAdam steps	Upward light output ratio (ULOR)	0
Luminous flux tolerance	±5 %		

CONSTRUCTION & MATERIALS

Luminaire type	Street	Light source type	LED
Light source replaceable	yes	Cap / base type	Integrated
Housing material	Aluminium alloy	Housing coating	Powder coating
Optic material	PMMA	Optical cover material	Tempered flat glass
Housing colour (RAL)	RAL 7035,DB703	Mounting type	Suspended on the rope
Cutout size	N/A	Overall dimensions (H × W × L)	500x500x286mm
Weight (net)	7.5kg	Windage projection area (side / below)	0,020 sq.m/ 0,785 sq.m
Number of light sources	3 pcs	Number of gear units	1 pcs

PROTECTION & ENVIRONMENT

IP rating — enclosure	IP66	Impact resistance class IK	IK09
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	on/off
Dimming range	10-100%	Auto-dimming (chronoSTEP)	Yes, 5 step
Built-in motion / presence sensor	On request	Built-in daylight sensor	On request
LED lumen maintenance compensation (CLO)	Available, On request	ZHAGA / NEMA socket compatibility	Available on request. Up and down

RELIABILITY & LIFETIME

Constant Light Output (CLO)	Available, On request	Light source lifetime	100000@L90 B10h
Lumen maintenance @ 50 000 h	L95B5	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	CE marked
ENEC mark	No	ENEC+ mark	No
UKCA marking	UKCA marked	D4i certified (DALI)	No
EU RoHS compliant	Yes	Light source energy efficiency class	B

STANDARDS & SUSTAINABILITY

Applicable standard	EN-IEC 62722-2-2	Application areas	Streets, city centres, yards and squares.
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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.