

DKS850 7100LM 77W A 717 I NB1 D76 IC0

Asymmetric · 1700K · IP66 · IK09 · RAL 7035,DB703

Length **624 mm****APPLICATION**

VIKING GEN2 is a premium LED street luminaire engineered for maximum efficiency, reliability and long service life. Designed for roads, urban streets, residential areas, parking facilities and industrial sites, it combines high-performance optics with intelligent control options to deliver outstanding lighting quality while minimizing energy consumption. The luminaire is Zhaga-D4i certified and supports modern smart city applications. Manufactured and assembled in the European Union using premium components from leading European suppliers, VIKING GEN2 offers exceptional flexibility for every project. A wide range of optics, lumen packages, colour temperatures and mounting options allows precise adaptation to different road classes and lighting requirements. Philips Xitanium drivers with DALI, CLO, AstroDIM and Zhaga Book 18 compatibility provide future-ready lighting management and easy integration with connected lighting systems. The robust die-cast aluminium housing, IP66 ingress protection and high surge protection ensure reliable operation even in harsh environments. With system efficacy of up to 180 lm/W, a service life of up to 100,000 hours (L90B10) and low maintenance requirements, VIKING GEN2 delivers one of the lowest total costs of ownership for modern street lighting installations.

7100 lm SYSTEM FLUX	77 W INPUT POWER	92 lm/W EFFICACY	1700K 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	77W	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	7100lm	Luminous flux — LED module	8100lm
Luminous efficacy — system	92lm/W	Correlated colour temperature (CCT)	1700K
Colour rendering index Ra (CRI)	≥70	Init. CRI tolerance	±3
Light distribution type	Asymmetric	Luminaire beam spread	Wide beam
Optic type	Asymmetrical street	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	Post-top, side-entry
Cutout size	N/A	Overall dimensions (H × W × L)	624(501)x240x108
Weight (net)	5.3kg	Windage projection area (side / below)	0,020 sq.m/ 0,132 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
Vibration endurance	PASS		

CONTROL & DIMMING

Dimmable	YES	Control protocol / interface	Zhaga D4i, DALI
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	ENEC marked	ENEC+ mark	ENEC+ marked
UKCA marking	UKCA marked	D4i certified (DALI)	D4i Zhaga marked
EU RoHS compliant	Yes	Light source energy efficiency class	E

STANDARDS & SUSTAINABILITY

Applicable standard	EN-IEC 62722-2-2	ETIM Class	Not determined
Recyclable content ratio	Not determined	Non-virgin material ratio	Not determined
Sustainability rating	Not determined	EAN / UPC	Not determined

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.