



VIKING



Road and urban luminaires

Viking series luminaires

ensure high energy efficiency in combination with moderate initial investments in infrastructure development.

Modest modern design of Viking luminaire fits well in diversified and demanding city environment. Selection of different size housings in combination with range of high performance optics and light color temperatures satisfies all demands for city street lighting.

The highest quality LED components of proven manufacturers and reliable technical design ensures high quality lighting and long lifetime.

DKS 752 / DKS 753

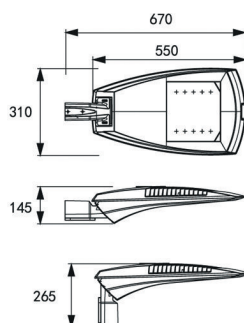


Features

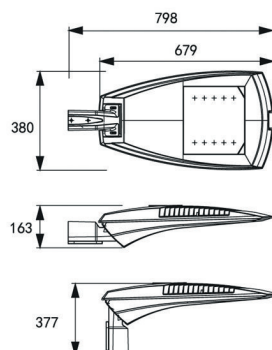
- High energy performance in combination with moderate investment;
- Flexibility in applications with selection of optics, color temperatures and sizes of housings;
- Easy service thanks to sophisticated construction of housing and modular concept of the design;
- Long lifetime ensured by high quality components.



DKS 752



DKS 753



Functionality

Types of light distribution diagram

- Wide WB • Narrow NB
- Asymmetric for crosswalks right ACR
- Asymmetric for crosswalks left ACL

System nominal luminous flux (no dimming) at installation time, system level

- DKS 752 - 2000-10200 lm
- DKS 753 - 5000-16700 lm

Correlated Color Temperature (CCT), K

- Standard: 4000 K
- Optional: 3000 K, 5700 K

Color Rendering Index (CRI)

- 3000 K • 4000 K
- 5700 K • CRI ≥ 70

Construction, materials and finishing

Type of light source

Built in LED module Philips Fortimo Fast Flex Generation 4
LED modules can be replaced by manufacturer only

LED chips

Lumileds/Osram ceramic package with silicone lens diodes

Housing material

High-pressure die cast aluminum, powder coated, grey RAL 7035

Gasket

Silicone rubber, heat resistant

Optics

Extra clear flat glass with UV cut, PMMA lenses

Light source cooling System

Passive, no fan

Location of the driver

The driver positioned inside the luminaire, exchangeable

Mechanical resistance class (vandal proof) for whole luminaire (all parts)

IK09

Degree of ingress protection class for whole luminaire

IP66

Windage area CxS, m² not more

- DKS 752 - 0,17 m² above/below and 0,098 m² side position
- DKS 753 - 0,26 m² above/below and 0,13 m² side position

Net weight per piece

- DKS 752 < 7 kg
- DKS 753 < 10 kg

Electrical parameters

Mains voltage nominal

220 – 240V AC / 50HZ

Mains voltage safety

-27% / +10%

Electrical insulation class

I or II

Power Factor (Cos φ) at full load (no dimming)

0.99

Surge protection

6 kV standard, 10 kV optional

Power consumption range

- DKS 752 up to 81 W
- DKS 753 up to 128 W

Operating parameters

Warranty

5 years

Driver Service Lifetime @ Ta = 25°C

100 000 hours / 90% survivors

Lumen maintenance @ Ta = 25°C

100 000 hours @ L90B10

Operating temperature range

-40°C - +40°C

Lifetime of passive parts of luminaire

25 years

Temperature protection

Active temperature protection of driver and light source with decrease of light output. The driver includes a built in thermal sensor and temperature compensation function.

Optional standalone control options

Constant light output, AstroDym / DynaDimmer

Installation and maintenance

Recommended mounting height

- DKS 752 - 4-8 m, 8 m max height
- DKS 753 - 8-12 m, 12 m max height

Installation options

Universal bracket for post top or side entry fits to 40 ÷ 60 mm diameter with tilt adjustment options:
• Side entry -10/-5/0/5/10°
• Post top -0/5/10°

Housing opening

Without tools, safety switch disconnects power on opening – Safe Maintenance Technology (SMT)

Service & repairing

Modular construction, LED modules and optic have standard sizes. All modules replaceable on a site without special tools/

Environmental protection

Recyclability

"No-Glue" construction with full recyclability

Preventing of pollution with light

The flat glass guarantees 0 candelas at 90° to obtain dark sky preservation and to reduce light pollution

Manufacturer is certified for Environmental Standard ISO 14001

Yes

ROHS compliant

Yes

Quality & standards

Marks & approvals of product

CE mark

Quality standards of manufacturer

Quality Standard ISO 9001:2008

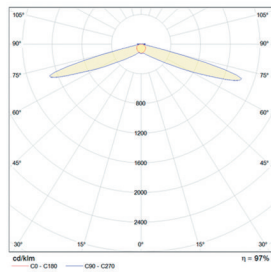
Luminaire must to fulfill requirements of standards

EN 60598-1: Luminaires, general requirements and tests
EN 60598-2-3: Particular requirements, luminaires for Road & Street Lighting
EN 62031 (only for LED): LED modules for general lighting, safety specifications
EN 55015: Limits & methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
EN 61547: Equipment for general lighting purposes, immunity requirements
EN 61000-3-2: Limits for Harmonic emissions (<16A per phase)
EN 61000-3-3: Limitation of voltage fluctuation and flicker in Low-voltage supply systems for equipment with rated current ≤ 16A
EN 61347-1: General & Safety requirements for the driver
EN 61347-2-13 (only for LED): Particular requirements for DC or AC supplied electronic driver for LED modules
EN 62471: Photo biological safety of Lamps and lamp systems

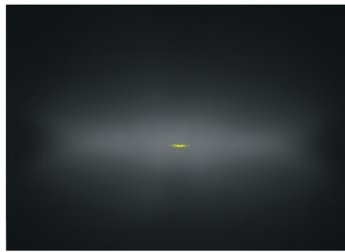
Product family rage

Order code	Description	System Initial luminous flux, lm	Power W	Efficacy Lm/W	Control method*
600151421029	DKS 752 LED022 - 18W 740 l 40-60 WB	2150	18	119	Line swith, Lumistep
600151421007	DKS 752 LED022 - 18W 740 l 40-60 WB1	2150	18	119	Line swith, Lumistep
600151421030	DKS 752 LED020 - 18W 730 l 40-60 WB	1980	18	110	Line swith, Lumistep
600151421008	DKS 752 LED020 - 18W 730 l 40-60 WB1	1980	18	110	Line swith, Lumistep
600151421031	DKS 752 LED030 - 26W 740 l 40-60 WB	3000	26	115	Line swith, Lumistep
600151421009	DKS 752 LED030 - 26W 740 l 40-60 WB1	3000	26	115	Line swith, Lumistep
600151421032	DKS 752 LED030 - 26 W 740 l 40-60 NB1	3000	26	115	Line swith, Lumistep
600151421033	DKS 752 LED027 - 26 W 730 l 40-60 WB	2760	26	106	Line swith, Lumistep
600151421010	DKS 752 LED027 - 26 W 730 l 40-60 WB1	2760	26	106	Line swith, Lumistep
600151421034	DKS 752 LED027 - 26 W 730 l 40-60 NB1	2760	26	106	Line swith, Lumistep
600151421035	DKS 752 LED031 - 26 W 750 l 40-60 ASL	3100	26	119	Line swith, Lumistep
600151421036	DKS 752 LED031 - 26 W 750 l 40-60 ASR	3100	26	119	Line swith, Lumistep
600151421037	DKS 752 LED060 - 54 W 740 l 40-60 WB	6000	54	109	Line swith, Lumistep
600151421038	DKS 752 LED060 - 54 W 740 l 40-60 NB1	6000	54	109	Line swith, Lumistep
600151421039	DKS 752 LED060 - 54 W 740 l 40-60 NB2	6000	54	109	Line swith, Lumistep
600151421040	DKS 752 LED056 - 54 W 730 l 40-60 WB	5550	54	102	Line swith, Lumistep
600151421041	DKS 752 LED056 - 54 W 730 l 40-60 NB1	5550	54	102	Line swith, Lumistep
600151421042	DKS 752 LED056 - 54 W 730 l 40-60 NB2	5550	54	103	Line swith, Lumistep
600151421043	DKS 752 LED063 - 54 W 750 l 40-60 ASL	6300	54	112	Line swith, Lumistep
600151421044	DKS 752 LED063 - 54 W 750 l 40-60 ASR	6300	54	112	Line swith, Lumistep
600151421045	DKS 752 LED090 - 81 W 740 l 40-60 WB	9000	81	114	Line swith, Lumistep
600151421046	DKS 752 LED090 - 81 W 740 l 40-60 NB1	9000	81	114	Line swith, Lumistep
600151421047	DKS 752 LED090 - 81 W 740 l 40-60 NB2	9000	81	114	Line swith, Lumistep
600151421048	DKS 752 LED082 - 81 W 730 l 40-60 WB	8300	81	106	Line swith, Lumistep
600151421049	DKS 752 LED082 - 81 W 730 l 40-60 NB1	8300	81	106	Line swith, Lumistep
600151421050	DKS 752 LED082 - 81 W 730 l 40-60 NB2	8300	81	106	Line swith, Lumistep
600151421051	DKS 752 LED092 - 81 W 750 l 40-60 ASL	9250	81	117	Line swith, Lumistep
600151421052	DKS 752 LED092 - 81 W 750 l 40-60 ASR	9250	81	117	Line swith, Lumistep
600151421053	DKS 753 LED101 - 92 W 740 l 40-60 NB1	10120	92	111	Line swith, Lumistep
600151421054	DKS 753 LED101 - 92 W 740 l 40-60 NB2	10120	92	111	Line swith, Lumistep
600151421055	DKS 753 LED093 - 92 W 730 l 40-60 NB1	9360	92	103	Line swith, Lumistep
600151421056	DKS 753 LED093 - 92 W 730 l 40-60 NB2	9360	92	103	Line swith, Lumistep
600151421057	DKS 753 LED104 - 92 W 750 l 40-60 ASL	10350	92	118	Line swith, Lumistep
600151421058	DKS 753 LED104 - 92 W 750 l 40-60 ASR	10350	92	118	Line swith, Lumistep
600151421059	DKS 753 LED120 - 106 W 740 l 40-60 NB1	12000	106	113	Line swith, Lumistep
600151421060	DKS 753 LED120 - 106 W 740 l 40-60 NB2	12000	106	113	Line swith, Lumistep
600151421061	DKS 753 LED111 - 106 W 730 l 40-60 NB1	11120	106	105	Line swith, Lumistep
600151421062	DKS 753 LED111 - 106 W 730 l 40-60 NB2	11120	106	105	Line swith, Lumistep
600151421063	DKS 753 LED150 - 128 W 740 l 40-60 NB1	15000	128	116	Line swith, Lumistep
600151421064	DKS 753 LED150 - 128 W 740 l 40-60 NB2	15000	128	116	Line swith, Lumistep
600151421065	DKS 753 LED137 - 128 W 730 l 40-60 NB1	13700	128	107	Line swith, Lumistep
600151421066	DKS 753 LED137 - 128 W 730 l 40-60 NB2	13700	128	107	Line swith, Lumistep

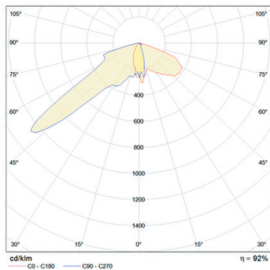
* Other control methods: AmpDim, DALI, Dynadimmer, LineSwitch single-step are avaiable on demand.



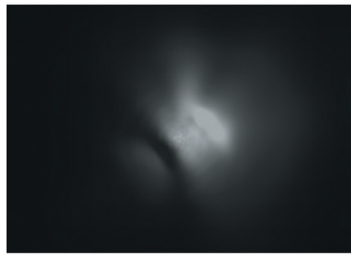
Wide WB



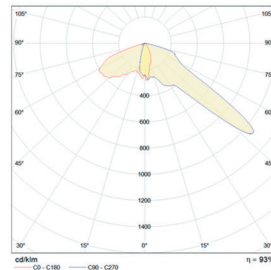
Pedestrian paths and bike roads



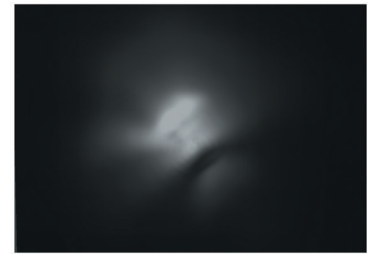
Asymmetric for crosswalks
ACR



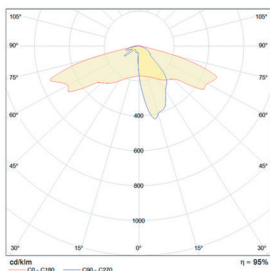
Pedestrian crosswalks
driving right



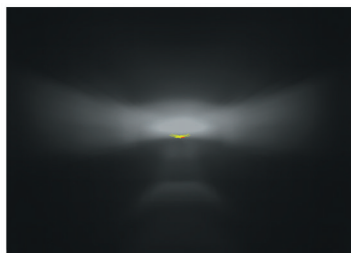
Asymmetric for crosswalks
ACL



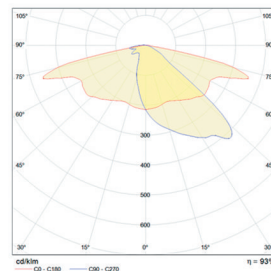
Pedestrian crosswalks
driving left



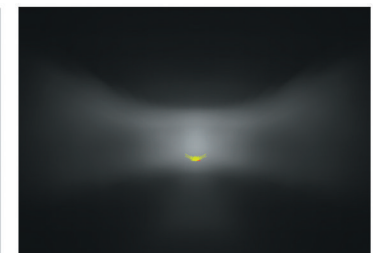
Narrow NB1



Roads ME5



Narrow NB2



Roads ME4

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