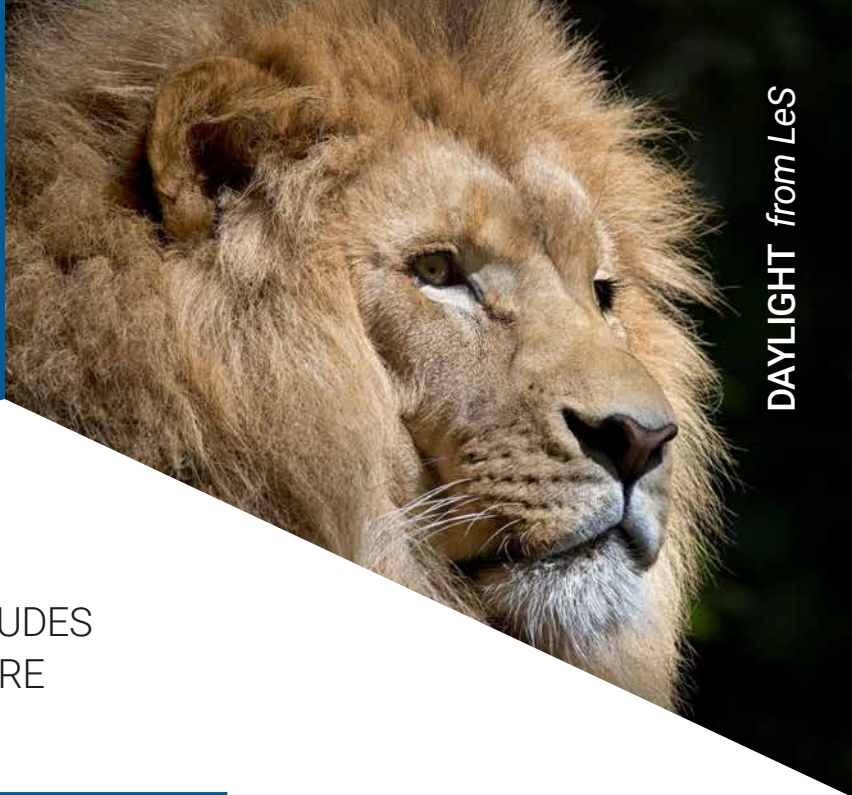


NAVIGATOR IV

Array LeS technology

TK NAVI 4 EN02 16-09
All rights reserved
Manufactured in Finland



DAYLIGHT from LeS

MIDNIGHT SUN AT SOUTHERN LATITUDES SELF-CONTAINED OFF-GRID LUMINAIRE NAVIGATOR IV – DAYLIGHT from LeS

OFF-GRID LUMINAIRE FOR MULTIPLE PURPOSES

- Twilight, motion and timer controls
- Efficient solar panels ensure reliable power production and optimal lighting
- Batteries developed for high ambient temperatures ensure long lifetime

- Luminaires operate with zero sun flux up to 4 days
- Broad selection of lens optics that can be protected from vandalism
- Adapts seamlessly to intelligent control systems
- High luminous flux up to 150 lm/W
- Natural daylight color temperature of 5000 K



Array LeS innovation produces the best lighting on the market, amazing color rendering index and secures a lifespan of over 200 000 hours.

NAVIGATOR IV series was developed to meet the evolving needs of off-grid area and street lighting. This product demonstrates the best features found in LumiTar luminaires, like ecology, efficacy and top quality.

NAVIGATOR IV has an innovative structure that is designed to last. Natural and even lighting soothes and improves the safety of environment. Bird-safe system protects solar panels and lighting fixture from contamination and damages caused by birds and small animals. With versatile optics the light can be distributed evenly without disturbing glare.

REAL ECONOMY

NAVIGATOR IV luminaires operate at optimal efficiency with minimal operational costs. The energy efficiency of the light source ensures optimal payback of investments. Patented heat transfer solution ensures a lifespan of at least 25 years for the luminaire. Versatile control interfaces allow remote control via smart devices.

NAVIGATOR IV can optionally be delivered as a complete set with the pole and a concrete foot. Lighting can be targeted by stepless adjustment of the light module. Luminaire can also be fixed directly to a 50 mm mounting pipe.

VERSATILE FUNCTIONALITY

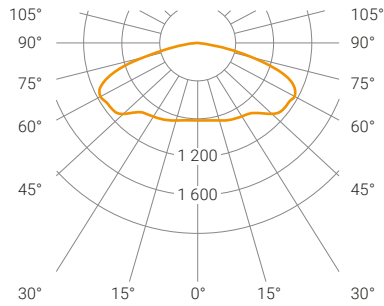
NAVIGATOR IV does not require any grid connection, but backup grid charging is available. The operating voltage varies in-between 24–48 VDC. The luminaires are dimmable by twilight and timer control to optimize the lifespan and charge of batteries.



Light distribution

NAVIGATOR IV Street

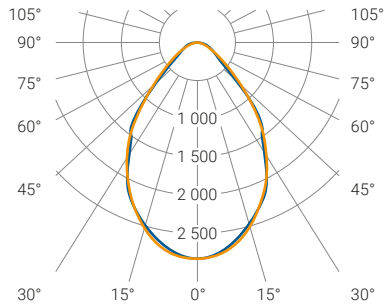
30 W
4 350 lm



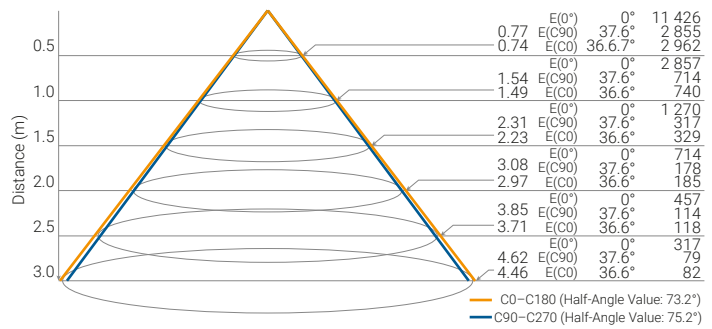
Asymmetrical light distribution

NAVIGATOR IV Area

30 W
4 350 lm



Cone diameter (m) Illuminance (lx)



Optional accessories, NAVIGATOR IV

Pole and concrete foot

- Steel pole, anodized surface, lengths 6–10 m by application
- Includes batteries, connections and controls inside the pole
- The luminaire is connected and assembled at the top of the pole



Technical data, NAVIGATOR IV

NAVIGATOR IV series was developed to meet the evolving needs of road and street lighting. It is also suitable for outdoor and parking areas. The technical data for all the NAVIGATOR IV models is shown in the table below. For additional information and light distribution tables please contact our technical support.

		NAVIGATOR IV		
		30_	60_	90_
Technical data				
Power	W	30	60	90
Luminous flux	lm	4 350	8 600	12 800
Luminaire efficiency	lm/W	145	143	142
Color temperature / ANSI CCT	K	5000	5000	5000
Color rendering index CRI/Ra	Ra	85	85	85
Light chip / Array light module		BXRV-1.8	BXRV-1.8	BXRV-1.8
Energy efficiency class – Energy Star		AAA	AAA	AAA
Light chip lifespan	years	25	25	25
	hours	200 000	200 000	200 000
Luminaire control				
Luminaire reconnection	ms	0.075	0.075	0.075
Dimming	%	0–140	0–140	0–140
Control devices: GSM, LAN, DMX, DALI		Yes	Yes	Yes
Mechanical data				
Protection class		IP67	IP67	IP67
Ambient working temperature, continuous	°C	-42... +70	-42... +70	-42... +70
Ambient working temperature, short-term	°C	-45... +105	-45... +105	-45... +105
Warranty	years	5	5	5
Cleaning – allows pressurized water/air	Max. bar	2	2	2
Installation				
Pole installation, adapter, size	mm	50–80	50–80	50–80
Power battery type: ANiMH/LTiA				
Efficiency	%	97.2	97.2	97.2
Voltage range	V	12–48	12–48	12–48
Power supply protection class		IP67	IP67	IP67
Power supply distance from luminaire	m	0–20	0–20	0–20
Accessories				
Extension cable			QPD C 3PE 2,5 2 Z6-10BK	
Protection cup for optics /		IK /	IK /	IK /
Protection cup IK-class		IK10	IK10	IK10

Materials and handling

Frame: extruded aluminum profile
 Lense: tempered glass
 Seals: silicone
 Surface: anodizing or powder coating

Power battery

- Designed for hot ambient conditions
- Long maintenance interval
- Surge protection
- Thermal protection
- Overload protection
- Lighting remains on for approximately 3–4 days without sun flux

Energy efficiency
can be improved over 80 %
when replacing old luminaires
with LumiTar Array LeS
luminaires.

*LumiTar*TM
ARRAY LIGHTING TECHNOLOGY FINLAND

LumiTar Array Lighting Technology Finland Oy
HOVIOIKEUDENPUUSTIKKO 23
FI-65100 VAASA
FINLAND
TEL. +358 (0)40 351 8285
www.lumitar.fi

