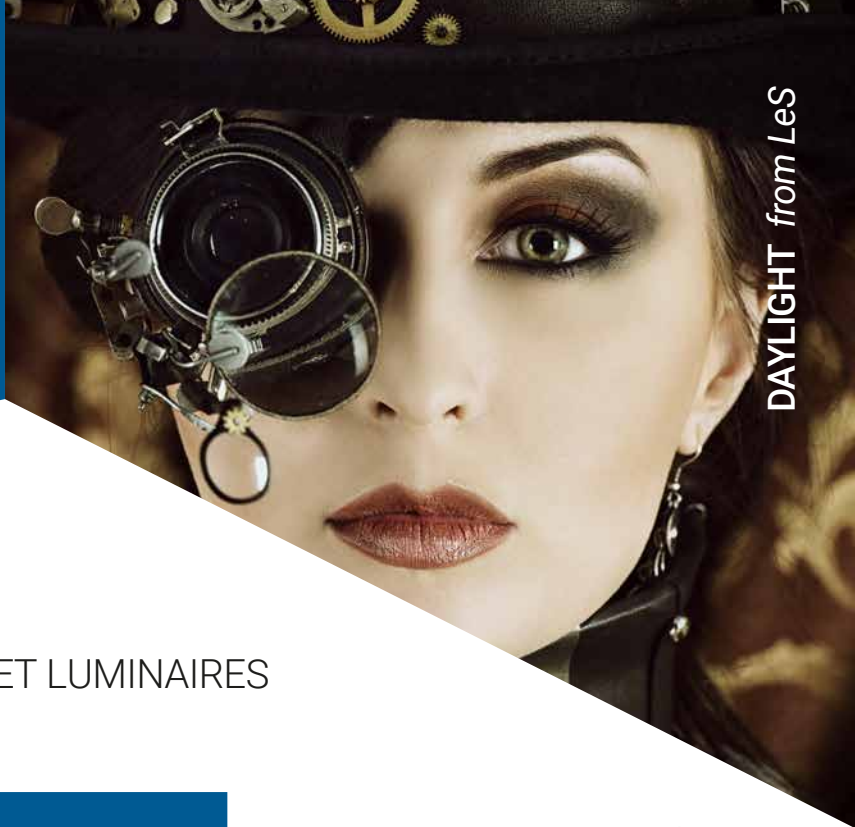


NAVIGATOR II

Array LeS technology

TK NAVI 2 EN01 16-04
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Made in Finland



DAYLIGHT from LeS

LOOK AND BE ENCHANTED
TRENDSETTER FOR ROAD AND STREET LUMINAIRES
NAVIGATOR – DAYLIGHT *from LeS*

LUMINAIRE FOR MULTIPLE PURPOSES

- Worlds first street luminaire with adjustable light distribution and glare control
- Natural daylight color temperature of 5000 K
- Adapts seamlessly to intelligent control systems
- Wide power range and modularity gives optimal lighting levels
- Carefree operation



NAVIGATOR II series was developed to meet the evolving needs of road and street lighting. This product demonstrates some of our best features, like great power range, adjustable light and top quality.

NAVIGATOR II can be installed in a lighting pole arm, straight lighting pole or on a wall. Power of the luminaires varies from 22 W to 185 W. Adjustable and variable optics provide the best possible lighting for your application. In addition the color-rendering index is at least 85 and color temperature is close to daylight at 5000 K or optionally 3000–4000 K. The luminous efficacy of NAVIGATOR II is among the best in the world.

CAREFREE

All of our components are of top quality. The lifespan of our light chip is over 200 000 hours, which leads to maintenance freedom.

VERSATILE FUNCTIONALITY

NAVIGATOR II can be installed to a straight or vertical arm thanks to our wide range of adaptors. The light can be targeted easily with stepless adjustment. The luminaires can be controlled with the line voltage, integrated twilight sensors or a smart control interface equipped with wireless communication and astronomical clock. They can also be controlled by DALI, DMX, 1–10 V PWM or potentiometer bus.

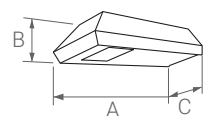
The luminaire is connected to a grid of 110–230 Vac (277 Vac for US). Our power supply devices are very reliable with a lifespan of 100 000 hours. The secondary circuit is class 2 rated at 29.4 Vdc.

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



DIMENSIONS (mm)

	A	B	C
2.1	575	120	183
2.2	669	120	183
2.3	763	120	183
2.4	857	120	183
2.5	951	120	183
2.6	1045	120	183



Type key designation NAVIGATOR II

NAVIGATOR | II | 2.3 | S | 10 | X | 5 | 2

PRODUCT FAMILY
NAVIGATOR

MODEL
II

POWER
2.1 = 30 W
2.2 = 60 W
2.3 = 90 W
2.4 = 120 W
2.5 = 150 W
2.6 = 180 W

IP-CLASS
5 = IP67

BEAM ANGLE

A = 90–160° AREA (broad area)
S = 110–122° STREET (general)



Without holder:

10 = STHB / 90°

11 = STA18 / 122°

COLOR

1 = RAL9010
(white)

2 = RAL9006
(grey)

3 = RAL9005
(black)



Technical data, NAVIGATOR II

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

		NAVIGATOR II					
		2.1_	2.2_	2.3_	2.4_	2.5_	2.6_
Technical data							
Power	W	30	60	90	120	150	180
Luminous flux	lm	4300	8560	12320	15600	19050	22500
Luminaire efficiency	lm/W	143	142	136	130	127	125
Color temperature / ANSI CCT	K	5000	5000	5000	5000	5000	5000
Color rendering index CRI/Ra	Ra	85	85	85	85	85	85
Light chip / Array light module		BXRV-1.8	BXRV-1.8	BXRV-1.8	BXRV-1.8	BXRV-1.8	BXRV-1.8
Light chip voltage	V DC	29.4	29.4	29.4	29.4	29.4	29.4
Energy efficiency class - Energy Star		AAA	AAA	AAA	AAA	AAA	AAA
Light chip lifespan	years	25	25	25	25	25	25
	hours	200 000	200 000	200 000	200 000	200 000	200 000
Luminaire control							
Luminaire reconnection	ms	0.075	0.075	0.075	0.075	0.075	0.075
Dimming	%	0-140	0-140	0-140	0-140	0-140	0-140
Manual control	V	0-10	0-10	0-10	0-10	0-10	0-10
Control devices: GSM, LAN, DMX, DALI		Yes	Yes	Yes	Yes	Yes	Yes
Mechanical data							
Protection class		IP67	IP67	IP67	IP67	IP67	IP67
Luminaire weight	kg	2.5	3.6	4.7	5.8	6.9	8.0
Ambient working temperature, continuous	°C	-42... +70	-42... +70	-42... +70	-42... +70	-42... +70	-42... +70
Ambient working temperature, short-term	°C	-45... +105	-45... +105	-45... +105	-45... +105	-45... +105	-45... +105
Warranty	years	5	5	5	5	5	5
Maintenance free		Yes	Yes	Yes	Yes	Yes	Yes
Cleaning - allows pressurized water/air	Max. bar	2	2	2	2	2	2
Ecology: Recyclable material	%	100	100	100	100	100	100
Installation							
Pole-installation, adapter, size	mm	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60
	Fine adjustment, stepless	15°	15°	15°	15°	15°	15°
	Joint socket, stepless adjustment	115°	115°	115°	115°	115°	115°
Wall mounting	Adapter	Yes	Yes	Yes	Yes	Yes	Yes
Cable mounting	Adapter	Yes	Yes	Yes	Yes	Yes	Yes
Power supply (electronic) MWHLG:							
Luminaire current, 232 V AC	A	0.10	0.24	0.36	0.24	0.36	0.36
Efficiency	%	97.2	97.2	97.2	97.2	97.2	97.2
Voltage range / 50-60Hz	V AC	90-305	90-305	90-305	90-305	90-305	90-305
Power supply protection class		IP67	IP67	IP67	IP67	IP67	IP67
Power supply distance from luminaire	m	0-20	0-20	0-20	0-20	0-20	0-20
Accessories							
Extension cable		QPD C 3PE 2,5 2 Z6-10BK					
Protection cup for optics / Protection cup IK-class		IK / IK10	IK / IK10	IK / IK10	IK / IK10	IK / IK10	IK / IK10
Adapter for pole mounting		ADA50	ADA50	ADA50	ADA50	ADA50	ADA50
Adapter for wall mounting		ASA50	ASA50	ASA50	ASA50	ASA50	ASA50
Adapter for cable mounting		AVA50	AVA50	AVA50	AVA50	AVA50	AVA50

Materials and handling

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

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

LumiTar
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