

Industrial LED luminaires

# KAIROS



Up to 90% savings in energy costs

40 W to 200 W power versions

Luminous flux control

DALI control with motion detectors and light intensity sensors

Versions designed for harsh working conditions:

Tempered glass, resistant to high temperatures

High IP66, IK08 to IK10 (optional)

Reliable

Made in Poland



# SOLUTIONS FOR:

Production halls,  
high- and low-storage warehouses,  
and workshops

## Maximum savings

- High luminous efficacy of the luminaires thanks to cutting edge LED technology
- Compatible with reliable, technologically advanced automation systems
- Corrosion resistant LEDs
- Luminaire with optional tempered glass.

## User satisfaction and safety

- Manufactured in Poland, short turnaround times
- Long-life operation guaranteed by high quality LEDs and efficient power supply heat dissipation
- Warranty 60 months (extension option)
- High color rendering index  $Ra > 80$
- Operation in high ambient temperatures and other difficult conditions
- High IP66 tightness of the luminaire
- High IK08 to IK10 (optional)
- Quality components, established manufacturers
- Flicker-free, steady light stream.

## Convenience and comfort for installers and maintenance staff

- Professional technical support
- Simple and quick installation of the luminaire
- Less frequent technical inspections and cleaning.

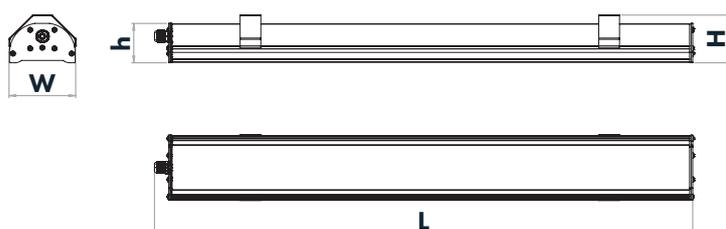




## Technical specification

Source of light	<b>LED diodes</b>	Tightness class	<b>IP66</b>
Diode lifetime	<b>L70 &gt; 200 000 h</b> (ta = 25°C)	IK factor	<b>IK08-IK10</b> (optional)
Color temperature	<b>4000 K</b> (others available on request)	Electrical insulation class	<b>Class I</b>
Color rendering index	<b>Ra &gt; 80</b>	Power factor	<b>cos Φ &gt; 0,98</b>
Supply voltage	<b>198 – 264 VAC</b>	Power supply efficiency	<b>η &gt; 94%</b>
Operating temperature (ta)	<b>from -30°C to +45°C / +55°C</b>	Brightness control	<b>DALI</b> (optional)

## Dimensions and weight



**H** – height of the luminaire with additional mounting bracket  
**h** – height of the luminaire

	h	H	L	W	weight
Luminaire type	[mm]	[mm]	[mm]	[mm]	[kg]
KR1 – PSP b K1 ...	77	93	367	129	2,4/2,7
KR1 – PSP b P1 ...	77	93	674	129	3,2/3,8
KR1 – PSP b S1 ...	77	93	981	129	4,1/4,9
KR1 – PSP b M1 ...	77	93	1288	129	5,0/6,0
KR1 – PSP b D1 ...	77	93	1595	129	5,8/7,1

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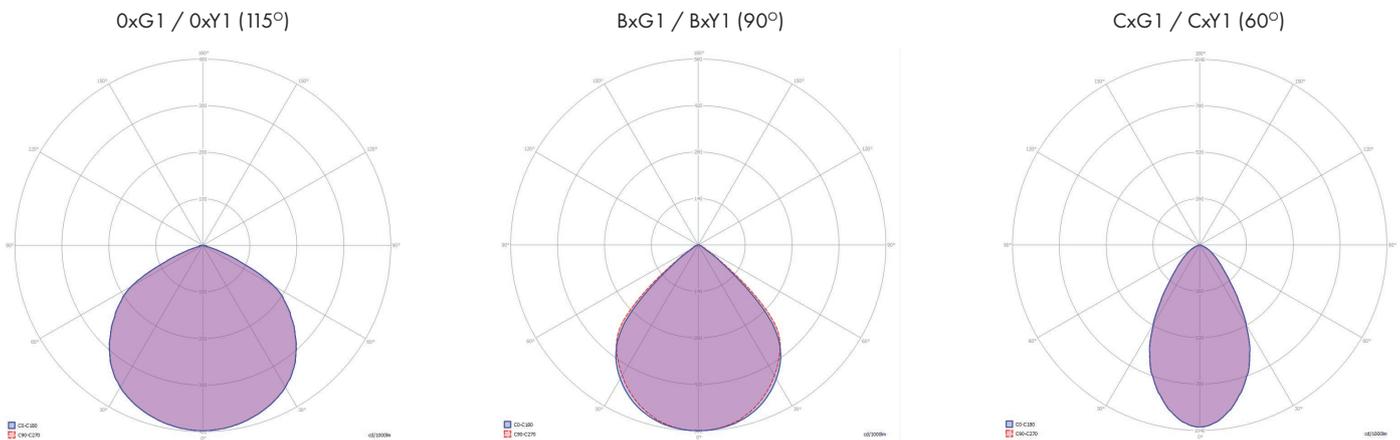
## Luminaire power options

luminaire version	KR1-040NK1 (40W, L=367 mm)	KR1-080NP1 (80W, L=674 mm)	KR1-120NS1 (120W, L=981 mm)	KR1-150NM1 (150W, L=1288 mm)	KR1-200ND1 (200W, L=1288 mm)
luminous flux for BxG1 optics	7 200 lm	14 400 lm	21 600 lm	27 000 lm	36 000 lm
application	production halls, low- and high-storage warehouses, workshops, warehouse shelters				

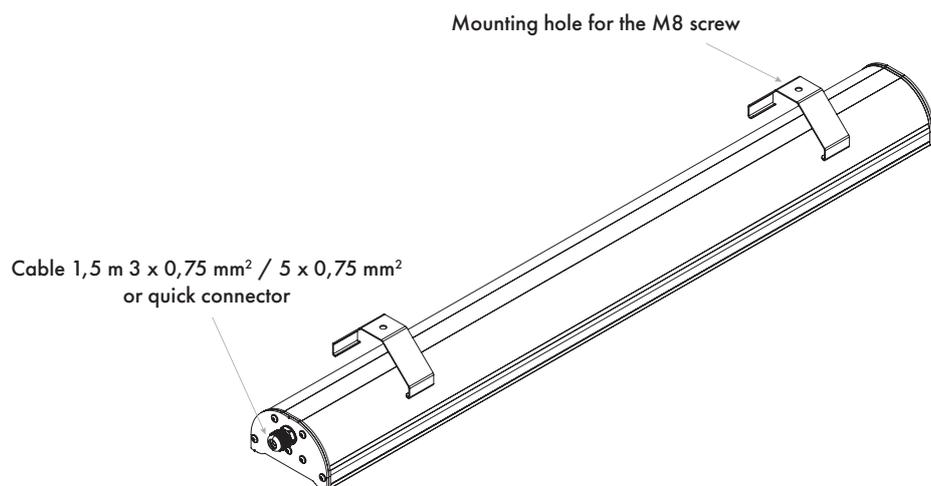
The above luminaire power and application recommendations are only indicative and apply to open halls. Actual luminaires are selected based on the specific lighting design.

## Light distribution curve configuration

Special optical design can be used to shape the light distribution curve to meet specific user requirements. Examples of light distribution curves for A, B and C optical systems:



## Fast and easy installation



## Coding of the Kairos luminaire

KR1 – PSP b L1 c TC – O1P1

**KR1** product code – Kairos luminaire

**PSP** power supply [W]:  
040 – 40 W  
080 – 80 W  
120 – 120 W  
150 – 150 W  
200 – 200 W

**b** power supply control  
N – no control  
D – DALI control

**L** luminaire length  
K – 367 mm  
P – 674 mm  
S – 981 mm  
M – 1288 mm  
D – 1595 mm

**c** power connection  
“-” – 1,5 m power cord  
A – external quick connector  
B – external quick connectors and through-wiring

**T** color temperature of light [K]  
3 – 3000 K  
4 – 4000 K  
5 – 5000 K  
6 – 6500 K

**C** color rendering index [CRI]  
8 – Ra > 80  
9 – Ra > 90

**O** internal optics  
0 – none  
B – lens 90°  
C – lens 60°

**P** type of external aperture  
G – 4 mm tempered glass  
Y – 2 mm polycarbonate

### Coding example

**KR1 – 120 N S1 – 48 – B3G1**

**KR1** Kairos luminaire version: KR1  
**120** power supply: 120 W  
**N** no control  
**S** LED luminaire length: 981 mm  
**-** power connection: 1,5 m cable  
**4** color temperature: 4000 K  
**8** color rendering index: Ra > 80  
**B3** internal optics: lens 90°  
**G1** external optics: 4 mm tempered glass

The technical specification is subject to change  
220810V01

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 <b>KAIROS</b> KR1 230 VAC    	 40/80/120/ 150/200 W	 L= 37/68/99/ 129/160 cm		 3000/4000/ 5000/6500 K	 
	 200.000 h	 2.4 - 5.8 kg (op. 2.7 - 7.1 kg)	 IP66	 80/90	
	 .. 180 lm/W	 NS/DALI	 IK08 (IK10)	 -30° .. +45°C (+55°C)	 OPT. GLASS

## Company address

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