K-SPOT 12 F/S

BIORHYTHMIC ALLROUNDER

- Compact and timeless design
- Small construction size
- Functionality: Colour temperature 1,800 K – 16,000 K
- High colour stability from micro-controller controlled LED management with temperature compensation and factory calibration
- High optical efficiency due to integrated anti-glare reflectors
- Soft light mixing and uniform light distribution
- UGR <19 for Model Spot 30
- Integrated aluminium heat sink
- Operating temperature monitoring with automatic dimming function
- Mounting: Flush-mounted
- Tool-free mounting, using two fixing spring clips for 1–15 mm ceiling thickness
- DMX available on request

Environment friendly

Low consumption

Long service life

Tunable White

Brightness dimmable

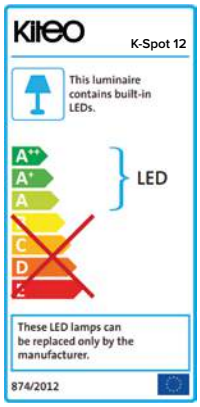
RGB adjustable

Excellent CRI

TECHNICAL DATA

K-SPOT 12 F/S Recessed luminaire

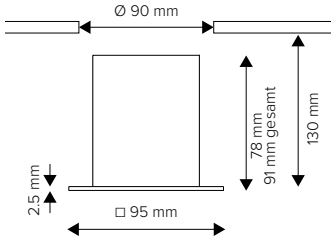
Luminous source	LED module PI-LED
Connected load	15 W
Luminous flux	870 lm
Colour temperature	1,800 K–16,000 K
Beam angle	Spot 30° I Flood 50°
CRI	90
Protection category	IP 30
Dimming range	CCT/CIE-xy 5–100% RGB 0–100%
Service lifetime	L80/B10 50,000h
Tests / approvals	CE / RoHs conformity
Weight	0.4 kg
Operating voltage	230 VAC (incl. ext. converter)
Control mode	NeoLink/ZigBee DALI DT8
Protection class	II
Mounting	Flush-mounted



IP30 RoHS

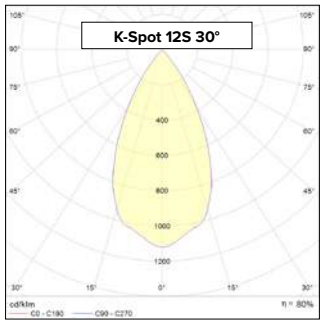
Dimensions

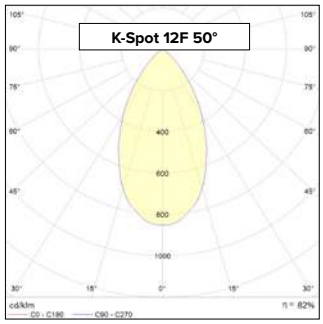
30 mm cable gland incl. cable bend protection



The maximum number of luminaires per automatic circuit breaker is limited due to the starting current of the luminaires. Please take note of the recommendations in the adjacent table.

Circuit breaker type	C10	C13	C16	C20	B10	B13	B16	B20
Cable cross-section (mm²)	1.5	1.5	1.5	2.5	1.5	1.5	1.5	2.5
Number of luminaires	6	8	10	12	3	5	5	6





CCT [K]	VISUAL DATA luminous flux [lm]	MELANOPIC ACTION FACTOR alpha (smel)
1,800	790	0.228
2,000	930	0.253
2,500	940	0.326
2,700	910	0.358
3,000	870	0.406
3,500	830	0.481
4,000	805	0.550
4,500	790	0.612
5,000	780	0.668
5,500	770	0.718
6,000	765	0.763
6,500	760	0.803
7,000	760	0.838
8,000	755	0.899
9,000	750	0.947
10,000	750	1.000
12,000	740	1.111
14,000	735	1.220
16,000	730	1.323

ORDER DATA

Art. No.	Luminaire
K-DL12F531	K-Spot 12 recessed luminaire / PI-LED / NeoLink / Flood / White (RAL 9003)
K-DL12F534	K-Spot 12 recessed luminaire / PI-LED / NeoLink / Flood / Brushed aluminium
K-DL12S531	K-Spot 12 recessed luminaire / PI-LED / NeoLink / Spot / White (RAL 9003)
K-DL12S534	K-Spot 12 recessed luminaire / PI-LED / NeoLink / Spot / Brushed aluminium
K-DL12F831	K-Spot 12 recessed luminaire / PI-LED / DALI DT8 / Spot / White (RAL 9003)
K-DL12F834	K-Spot 12 recessed luminaire / PI-LED / DALI DT8 / Flood / Brushed aluminium
K-DL12S831	K-Spot 12 recessed luminaire / PI-LED / DALI DT8 / Flood / White (RAL 9003)
K-DL12S834	K-Spot 12 recessed luminaire / PI-LED / DALI DT8 / Spot / Brushed aluminium

Art.No.	Accessories
K-Z1000210	Weatherproof protection cover for K-Spot Flood / White (RAL 9003)
K-Z1000211	Weatherproof protection cover for K-Spot Flood / Brushed aluminium
K-ZNVK500	LV connection cable for NeoLink luminaires, 5m, connecting driver and K-Spot

Art.No.	Package with radio control dial
K-DL12F531-S	5 x K-Spot 12 / NeoLink / Flood / White (RAL 9003) / with control and accessories
K-DL12F534-S	5 x K-Spot 12 / NeoLink / Flood / Brushed Aluminium / with control and accessories

* Required control on page 58 ff.

Notes
The photometric data of a tolerance of +/- 15%, the electrical data of a tolerance of +/- 15%. Unless otherwise specified, the values are based on 3,000K and an ambient temperature of 25°C. Permissible operating temperature 10°C - 35°C. The manufacturer reserves the right to change any product specification without prior notice. CCT values outside the range 2.500-7.000K can be set in the CIE-xy mode. The coefficient alpha(smel) describes the melanopic effectiveness of the light source on humans and their circadian rhythm. To give the natural human biorhythm the best possible support, the melatonin production can be minimized by higher values of alpha(smel) throughout the day and stimulated by lower values in the evening. PI-LED enables the implementation of an illumination that is not only visually but also biologically/melanopic effective. For a standard-conforming lighting design, Lumitech recommends the document DIN SPEC 5031-100 to be taken as a basis. More documents can be found at **www.kiteo.eu.**