

K-MERCATURA

BEST LIGHT FOR LARGE ROOMS

- Discreet design for multiple applications
- Available as single or with double mounting frame
- Flush mount housing, powder coated in black on the inside
- Functionality: Colour temperature 1,800 K to 16,000 K
- High colour stability from micro-controller controlled LED management with temperature compensation and factory calibration
- Highly permeable safety glass
- Soft light mixing and uniform light distribution
- Swivel range 30°
- Passive cooling including thermal management
- Mounting: Flush-mounted



Environment
friendly



Low
consumption



Long
service life



Tunable
White



Brightness
dimmable



RGB
adjustable

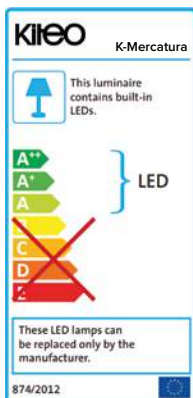


Excellent
CRI

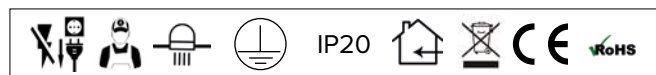
TECHNICAL DATA

K-MERCATURA Recessed luminaire

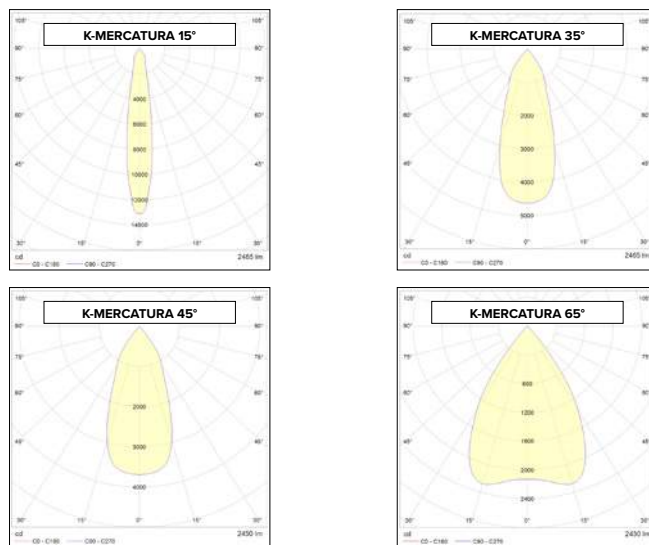
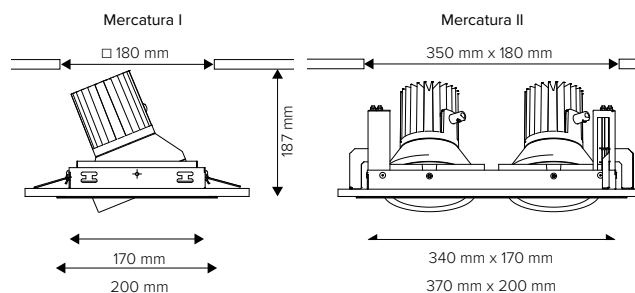
Luminous source	LED module PI-LED
Connected load	34 W
Beam angle	15° 35° 45° 65°
Luminous flux	15°/35°-Reflector: 2,640 lm 45°-Reflector: 2,620 lm 65°-Reflector: 2,600 lm 1,800 K–16,000 K
Colour temperature	1,800 K–16,000 K
CRI	90
Protection category	IP 20
Dimming range	CCT/CIE-xy 5–100% RGB 0–100% L80/B10 50,000h
Service lifetime	CE / RoHS Conformity
Tests / approvals	CE / RoHS Conformity
Weight	1.9 kg
Operating voltage	230 VAC
Control mode	NeoLink/ZigBee DALI DT8
Protection class	I
Mounting	Flush-mounted



All values are relevant for Mercatura I



Dimensions



ORDER DATA

Art.No.	Luminaire
K-MEI-15-xx-y	K-Mercatura I 15° / PI-LED / xx / y
K-MEI-35-xx-y	K-Mercatura I 35° / PI-LED / xx / y
K-MEI-45-xx-y	K-Mercatura I 45° / PI-LED / xx / y
K-MEI-65-xx-y	K-Mercatura I 65° / PI-LED / xx / y
K-MEII-15-xx-y	K-Mercatura II 15° / PI-LED / xx / y
K-MEII-35-xx-y	K-Mercatura II 35° / PI-LED / xx / y
K-MEII-45-xx-y	K-Mercatura II 45° / PI-LED / xx / y
K-MEII-65-xx-y	K-Mercatura II 65° / PI-LED / xx / y

xx = NZ (NeoLink) or DA (DALI DT8)
y = W (White) or S (Silver)

* Required control on page 58 ff. Fixed White on request.

CCT [K]	VISUAL DATA			MELANOPIC ACTION FACTOR
	Luminous flux [lm]			alpha (smel)
	15°/35°	45°	65°	
1.800	1460	1450	1435	0,244
2.000	1715	1705	1690	0,269
2.500	2460	2440	2425	0,337
2.700	2740	2725	2700	0,372
3.000	2640	2620	2600	0,423
3.500	2530	2515	2495	0,502
4.000	2465	2450	2430	0,575
4.500	2425	2410	2390	0,642
5.000	2400	2385	2365	0,702
5.500	2385	2370	2350	0,756
6.000	2375	2360	2340	0,804
6.500	2370	2355	2335	0,847
7.000	2365	2350	2330	0,885
8.000	2365	2350	2330	0,950
9.000	2365	2350	2330	1,003
10.000	2365	2350	2330	1,045
12.000	2200	2185	2165	1,111
14.000	2055	2040	2025	1,157
16.000	1900	1890	1870	1,213

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.
Last change: 07.03.2019