

ZX-C0708 surface-mounted luminaire



ZX-C0708 is a slim round surface-mounted luminaire supplied in Ø450 and Ø600 sizes, each with an upward and a downward light engine. Three versions are available. The XC1 Lite version is switched from the wall switch and offers three scene modes; the XC1 Air version adds app control, a 2,700 – 6,000 K tunable-white main engine and a fifth circadian mode; the XC1 Max version adds a glare-control mode with a 2,700 – 4,000 K engine. Measured output ranges from 4,199 lm (Max Ø450, reading) to 8,137 lm (Air Ø600, high-definition), with a measured colour rendering index of Ra 93.5 – 98.2 and a glare rating of UGR < 16. The diffuser is direct-emitting, a night-light function is included, and the luminaire is classified RG0.

Features

Light output (measured, reading mode)	Lite Ø450 4,269 lm · Lite Ø600 7,034 lm · Air Ø450 4,477 lm · Air Ø600 7,776 lm · Max Ø450 4,199 lm · Max Ø600 7,231 lm
Rated power / current	Ø450 55 W / 0.25 A · Ø600 80 W / 0.36 A
Power factor	≥ 0.95 (rated)
Operating modes	Lite 3 · Air 5 (incl. circadian) · Max 3 (incl. glare control)
Dimming / control	Lite — none (wall switch) · Air — app and remote control, stepless 10 – 100 % · Max — none (wall switch)
Colour temperature	Lite / Max 4,000 K main + 2,700 K backlight · Max 2,700 – 4,000 K · Air 2,700 – 6,000 K main + 2,700 K backlight
Colour rendering (measured)	Ra 93.5 – 98.2 · R9 74 – 99
Colour consistency (measured)	SDCM 1.7 – 8.8
Glare / flicker	UGR < 16 · no visible flicker
Illuminance on the desk (declared)	Lite Ø450 443 lx · Lite Ø600 686 lx · Air Ø450 605 lx · Air Ø600 648 lx · Max Ø450 424 lx · Max Ø600 690 lx · spatial uniformity > 0.9
Night light	Included on all versions
Light source	2835 LEDs, 1 W each — main 4,000 K / 2,700 K (Air: 2,700 + 6,000 K) + 2,700 K backlight
Optical design / safety	Direct-emitting diffuser · RG0 (exempt group) · 50,000 h service life
Product size / weight	Ø450 × H52.5 mm · 2.2 kg net / 3.5 kg gross (Ø600: 3.6 / 5.5 kg)
Warranty	5 years

Application areas

Living rooms, bedrooms, studies and children's rooms.

Technical data

Series / model name	KN-0708 · XC1 Lite / Air / Max
Input voltage	AC 220 – 240 V, 50 Hz
Rated power	Ø450 55 W (0.25 A) · Ø600 80 W (0.36 A)
Power factor	≥ 0.95 (rated; 0.97 – 0.99 measured at full output)
Light output (measured, reading mode)	Lite Ø450 4,269 lm · Lite Ø600 7,034 lm · Air Ø450 4,477 lm · Air Ø600 7,776 lm · Max Ø450 4,199 lm · Max Ø600 7,231 lm
Luminous efficacy (measured)	75.7 – 99.2 lm/W depending on version, size and mode
Colour temperature	Lite / Max 4,000 K + 2,700 K backlight · Max 2,700 – 4,000 K · Air 2,700 – 6,000 K + 2,700 K backlight
Colour rendering index (measured)	Ra 93.5 – 98.2 · R9 74 – 99
Colour consistency (measured)	SDCM 1.7 (Lite Ø450, reading) – 8.8 (Air Ø600, reading)
Glare	UGR < 16
Flicker	No visible flicker
Illuminance (declared)	Lite Ø450 443 lx · Lite Ø600 686 lx · Air Ø450 605 lx · Air Ø600 648 lx · Max Ø450 424 lx · Max Ø600 690 lx
Spatial uniformity	> 0.9
Dimming method	Lite and Max — none (scene modes are switched from the wall switch). Air — stepless 10 – 100 % brightness from the app or the remote control
Mode selection	Lite 3 scene modes · Air 5 scene modes (incl. circadian) · Max 3 scene modes (incl. glare control); sleep function and night light included
Light source	2835 LEDs, 1 W each — main 4,000 K / 2,700 K (Air: 2,700 + 6,000 K) + 2,700 K backlight
Optical design	Direct-emitting diffuser
Photobiological safety	RG0 (exempt group)
Service life	50,000 h
Material	T6061 aluminium, ABS, PS, steel and PC (Ø450); equivalent construction for Ø600
Certification / warranty	CE · RoHS · UL · 5 years

Version overview

Version	Control	Scene modes	Colour temperature	Power	Size / weight
XC1 Lite-450	Wall switch	3	4,000 K + 2,700 K backlight	55 W	Ø450 × 52.5 mm · 2.2 / 3.5 kg
XC1 Lite-600	Wall switch	3	4,000 K + 2,700 K backlight	80 W	Ø600 × 52.5 mm · 3.6 / 5.5 kg
XC1 Air-450	App / remote	5 (incl. circadian)	2,700 – 6,000 K + 2,700 K	55 W	Ø450 × 52.5 mm · 2.2 / 3.5 kg
XC1 Air-600	App / remote	5 (incl. circadian)	2,700 – 6,000 K + 2,700 K	80 W	Ø600 × 52.5 mm · 3.6 / 5.5 kg
XC1 Max-450	Wall switch	3 (incl. glare control)	2,700 – 4,000 K + 2,700 K	55 W	Ø450 × 52.5 mm · 2.2 / 3.5 kg
XC1 Max-600	Wall switch	3 (incl. glare control)	2,700 – 4,000 K + 2,700 K	80 W	Ø600 × 52.5 mm · 3.6 / 5.5 kg

Light output modes

Mode	Light engine	Colour temperature	Dimming	Control
Reading	Main light, downward	4,000 K	Stepless 10 – 100 % (Air only)	Wall switch / app / remote
Soft ambient	Main + backlight	2,700 K	Stepless 10 – 100 % (Air only)	Wall switch / app / remote

Mode	Light engine	Colour temperature	Dimming	Control
Mother-and-baby / low level	Backlight, upward	2,700 K	Low level	Wall switch / app / remote
Glare control (Max)	Main + backlight	2,700 K	Stepless 10 – 100 % (Air only)	Wall switch
High-definition (Air)	Main light, downward	6,000 K	Stepless 10 – 100 %	App / remote

Mode and brightness are switched from the wall switch on the Lite and Max versions, and from the app or the remote control on the Air version. The last setting used is restored when the luminaire is switched on again.

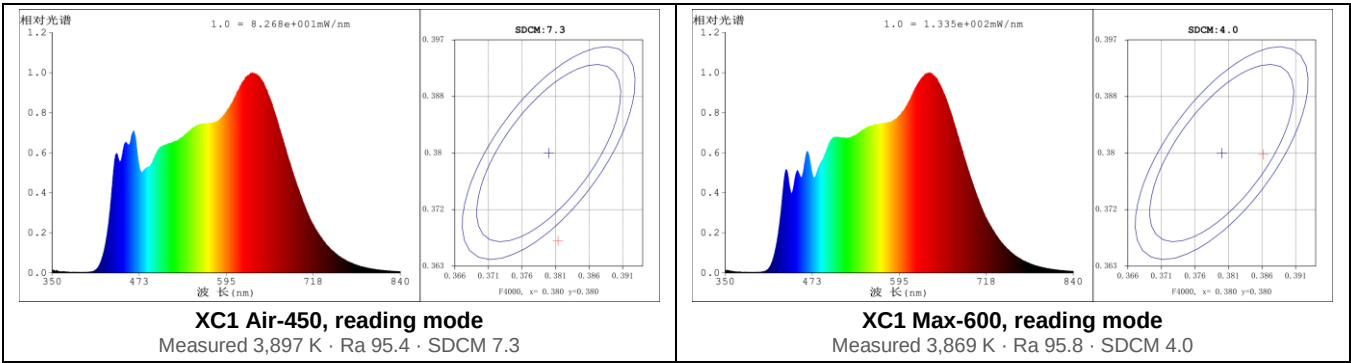
Measured performance (integrating sphere)

Version	Mode	Measured CCT	Luminous flux	Power	Efficacy	Ra	SDCM
Lite-450	Reading	3,960 K	4,269 lm	53.7 W	79.5 lm/W	97.8	1.7
Lite-450	Soft ambient	2,677 K	938 lm	14.4 W	65.2 lm/W	96.7	2.3
Lite-600	Reading	3,908 K	7,034 lm	79.4 W	88.6 lm/W	97.1	3.2
Air-450	Reading	3,897 K	4,477 lm	55.8 W	80.2 lm/W	95.4	7.3
Air-450	Soft ambient	2,645 K	4,355 lm	57.6 W	75.7 lm/W	97.4	3.6
Air-450	High-definition	6,060 K	4,688 lm	55.4 W	84.7 lm/W	98.2	5.1
Air-600	Reading	3,851 K	7,776 lm	79.1 W	98.4 lm/W	93.5	8.8
Air-600	High-definition	6,159 K	8,137 lm	82.0 W	99.2 lm/W	97.4	6.5
Max-450	Reading	3,946 K	4,199 lm	54.0 W	77.7 lm/W	97.8	2.0
Max-450	Glare control	2,656 K	3,868 lm	54.6 W	70.9 lm/W	97.9	3.1
Max-600	Reading	3,869 K	7,231 lm	78.7 W	91.8 lm/W	95.8	4.0
Max-600	Glare control	2,606 K	6,628 lm	79.7 W	83.1 lm/W	97.9	5.4

Integrating-sphere measurement of the complete luminaire at AC 220 V, 50 Hz (test records of 25 August 2025). The mother-and-baby setting was also measured: Lite-450 228 lm / 4.8 W, Lite-600 240 lm / 4.8 W, Air-600 1,576 lm / 23.3 W.

Photometric data

Relative spectral power distribution and colour-ellipse (SDCM) plots, measured at rated output.



Measured with an EVERFINE HaasSuite spectroradiometer system (test records KN-0708, 25 August 2025). The right-hand panel of each figure is the colour-ellipse plot produced by the instrument.

Installation and safety notices

For indoor use only. Do not use the luminaire in damp areas or near water.

Connect the luminaire only to a mains socket matching the rated voltage, and disconnect it from the mains before cleaning or moving it.

Do not look directly at the light source. Clean the luminaire with a soft dry cloth only, with the luminaire switched off and cooled down. Do not cover the light output surface with any material. Repair and replacement of the light source or the control gear must be carried out by a qualified person.

Shenzhen Zhexian Optoelectronics Technology Co., Ltd.

Room 909, Hongfa Xiyue Building, No. 111 Chuangye 2nd Road, Zone 27, Dalang Community, Xin'an Subdistrict, Bao'an District, Shenzhen, Guangdong, China

E-mail: leslie@zhexianlighting.com · www.szzxgd.en.alibaba.com · Tel: +86 183 4226 3250

Certification: CE · RoHS · UL

All values in this specification are typical values from laboratory measurement of the stated sample; for concrete data and shipping inspection reports please contact us. Information is subject to change without notice.

© Shenzhen Zhexian Optoelectronics Technology Co., Ltd. All rights reserved.