

ZX-T8623 desk luminaire



ZX-T8623 (model TE1) is a desk luminaire with a downward light engine, an upward backlight and a built-in negative-ion generator. Five settings are available: eye-comfort axis control (2,700 K), reading and study (4,000 K), screen comfort (4,000 K), a low-level sleep setting (2,700 K) and a negative-ion function that can be switched on independently. Brightness is adjusted steplessly from 10 % to 100 % with the rotary control and the colour temperature is set by touch. The measured output is 1,283 lm in reading mode and 1,028 lm in the axis-control mode, with a measured colour rendering index of Ra 95.8 – 97.6 and UGR < 11. The negative-ion function is supported by independent test reports for PM2.5, formaldehyde and negative oxygen-ion concentration. The body is steel and 6063 aluminium with a PC prismatic optic.

Features

Light output (measured)	Reading 1,283 lm · Eye-comfort axis 1,028 lm · Screen comfort 589 lm · Sleep 91 lm
Rated power / current	30 W / 0.13 A (measured 4.5 – 29.1 W depending on setting)
Operating modes	5 — eye-comfort axis control (2,700 K) · reading and study (4,000 K) · screen comfort (4,000 K) · sleep (2,700 K, low level) · negative-ion function
Dimming / control	Stepless 10 – 100 % brightness from the rotary control; colour temperature set by touch
Colour temperature	2,700 K – 4,000 K
Colour rendering (measured)	Ra 97.6 · R9 92 (axis control) · Ra 96.3 · R9 92 (reading) · Ra 95.8 · R9 90 (screen comfort)
Colour consistency (measured)	SDCM 1.5 (axis control) – 4.1 (screen comfort)
Glare / flicker	UGR < 11 · no visible flicker
Illuminance on the desk (declared, reading)	Centre ≥ 1,858 lx · 500 × 300 mm average ≥ 1,550 lx · 700 × 500 mm average ≥ 1,350 lx · uniformity centre ≤ 1.4 / total ≤ 2.19
Negative-ion function	Independent test reports for PM2.5, formaldehyde and negative oxygen-ion concentration
Night light / memory	Night-light function included · last setting remembered
Light source	Downward 70 pcs axis-control (2,700 K) + 35 pcs (4,000 K); backlight 28 pcs (2,700 K + 4,000 K)
Optical design / safety	PC prismatic optic · RG0 (exempt group)
Product size / weight	Head W 574.1 × reach 413.9 × H 520.5 mm · 6.0 kg net / 8.0 kg gross
Warranty	5 years

Application areas

Home study areas, home offices, reading and writing tasks, online learning.

Technical data

Series / model name	KN-8623 · TE1
Input voltage	AC 220 – 240 V, 50 Hz
Rated power	30 W (measured 4.5 – 29.1 W depending on setting)
Rated current	0.13 A
Light output (measured)	Reading 1,283 lm · Eye-comfort axis 1,028 lm · Screen comfort 589 lm · Sleep 91 lm
Luminous efficacy (measured)	20.4 – 47.8 lm/W depending on setting
Colour temperature	2,700 K · 4,000 K
Colour rendering index (measured)	Ra 97.6 · R9 92 (axis control) · Ra 96.3 · R9 92 (reading) · Ra 95.8 · R9 90 (screen comfort) · Ra 97.5 · R9 98 (sleep)
Colour consistency (measured)	SDCM 1.5 (axis control) – 4.1 (screen comfort)
Glare	UGR < 11
Flicker	No visible flicker
Illuminance (declared, reading)	Centre ≥ 1,858 lx · 500 × 300 mm average ≥ 1,550 lx · 700 × 500 mm average ≥ 1,350 lx · uniformity centre ≤ 1.4 / total ≤ 2.19
Dimming / mode selection	Stepless 10 – 100 % brightness from the rotary control, colour temperature set by touch; 5 settings including an independently switchable negative-ion function and a night light; last setting remembered
Negative-ion function	PM2.5, formaldehyde and negative oxygen-ion concentration test reports on file
Light source	Downward 70 pcs axis-control (2,700 K) + 35 pcs (4,000 K); backlight 28 pcs (2,700 K + 4,000 K)
Optical design / safety	PC prismatic optic (prism plate) · RG0 (exempt group)
Product size / packing	Head W 574.1 × reach 413.9 × H 520.5 mm · packed 700 × 570 × 220 mm, 1 pc per carton
Material / weight	Steel base and body parts, 6063 aluminium, PC prismatic optic · 6.0 kg net / 8.0 kg gross
Certification / warranty	CE · RoHS · UL · 5 years

Light output modes

Setting	Light engine	Colour temperature	Luminous flux (measured)	Dimming
Eye-comfort axis control	Downward, axis-control LEDs	2,700 K	1,028 lm	Stepless 10 – 100 %
Reading and study	Downward + backlight	4,000 K	1,283 lm	Stepless 10 – 100 %
Screen comfort	Downward, 4,000 K channel	4,000 K	589 lm	Stepless 10 – 100 %
Sleep	Backlight only	2,700 K	91 lm	Low level
Negative-ion function	Independent generator	—	—	On / off

Mode is selected from the control panel and brightness is adjusted steplessly between 10 % and 100 % with the rotary control; the colour temperature is set by touch. The negative-ion function can be switched on independently of the light.

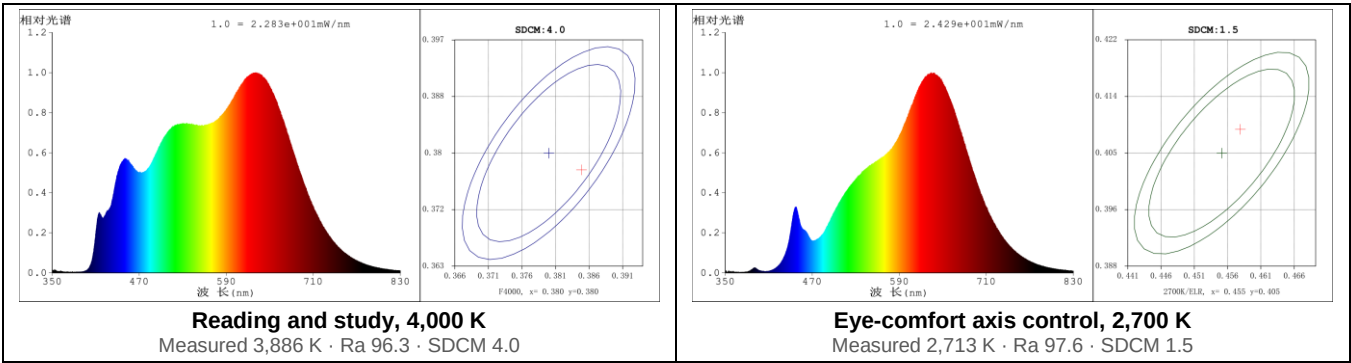
Measured performance (integrating sphere)

Setting	Measured CCT	Luminous flux	Power	Efficacy	Ra	R9	SDCM
Eye-comfort axis control	2,713 K	1,028 lm	23.3 W	44.2 lm/W	97.6	92	1.5
Reading and study	3,886 K	1,283 lm	29.1 W	44.1 lm/W	96.3	92	4.0
Screen comfort	3,897 K	589 lm	12.3 W	47.8 lm/W	95.8	90	4.1
Sleep	2,686 K	91 lm	4.5 W	20.4 lm/W	97.5	98	1.8

Integrating-sphere measurement of the complete luminaire at AC 220 V, 50 Hz. The screen-comfort setting is recorded in the factory data as the online-class (网课) setting.

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-8623). The right-hand side 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.

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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.

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