

ZX-TC2 desk luminaire



ZX-TC2 (model TC2) is a wide desk luminaire with a 972 mm bar head on a single upright and an oval base. Five settings are available: Reading (4,000 K), eye-comfort axis control (2,700 K), soft comfort (2,700 K), Bright Light and Breathing light, and brightness is set in five steps from the control panel on the upright. A seat sensor switches the luminaire on when the user sits down and off when they leave, the last setting is remembered, and a night-light function is included. In the goniophotometer measurement the reading setting produces 5,822 lm at 81.3 lm/W and the axis-control setting 4,206 lm at 57.7 lm/W, with a beam angle of $73.2^\circ \times 106.0^\circ$ in reading mode and a measured glare rating of $UGR < 9$. The body is aluminium with ABS and PC parts.

Features

Light output (specification)	Reading 4,632 lm · Eye-comfort axis 3,272 lm · Soft comfort 381 lm
Light output (measured, goniophotometer)	Reading 5,822 lm at 81.3 lm/W · Eye-comfort axis 4,206 lm at 57.7 lm/W
Rated power / current	70 W / 0.32 A · power factor ≥ 0.90
Operating modes	5 — Reading, Eye-comfort axis control, Soft comfort, Bright Light, Breathing light
Dimming	5 brightness steps from the control panel on the upright
Sensor / memory	Seat sensor — switches on when the user sits down and off when they leave; last setting remembered
Night light	Yes
Colour temperature	2,700 – 4,000 K main light · 2,700 K backlight
Colour rendering	Ra 98.1 · Rf 95 · Rg 101 · CQS 98 · R9 85 · R12 93
Colour consistency	SDCM < 5
Glare / flicker	$UGR < 9$ · no visible flicker
Illuminance on the desk (declared)	Centre $\geq 4,002$ lx · 500 × 300 mm average $\geq 2,300$ lx · 700 × 500 mm average $\geq 1,200$ lx · uniformity ≤ 1.96
Beam angle (measured)	73.2° (C0/180) × 106.0° (C90/270), average 89.6° — reading setting
Light source	2835 LEDs, 1 W each — 120 × 4,000 K + 80 × 2,700 K
Photometric data files	.GOS distribution files supplied for the reading and axis-control settings
Photobiological safety / life	RG0 (exempt group) · 50,000 h service life
Product size / weight	W 295 × L 972 × H 723 mm · 4.05 kg net / 5.63 kg gross
Warranty	5 years

Application areas

Home study areas, home offices and reading areas.

Technical data

Input voltage	AC 220 – 240 V, 50 Hz
Rated power	70 W
Rated current	0.32 A
Power factor	≥ 0.90
Luminous flux (specification)	Reading 4,632 lm · Eye-comfort axis 3,272 lm · Soft comfort 381 lm
Luminous flux (measured, goniophotometer)	Reading 5,822 lm (81.3 lm/W) · Eye-comfort axis 4,206 lm (57.7 lm/W)
Colour temperature	2,700 – 4,000 K (main light) · 2,700 K (backlight)
Colour rendering index	Ra 98.1 · Rf 95 · Rg 101 · CQS 98 · R9 85 · R12 93
Colour consistency	SDCM < 5
Glare	UGR < 9
Flicker	No visible flicker
Illuminance (declared)	Centre ≥ 4,002 lx · 500 × 300 mm average ≥ 2,300 lx · 700 × 500 mm average ≥ 1,200 lx · uniformity ≤ 1.96
Beam angle (measured, reading)	C0/180 73.2° · C90/270 106.0° · average (50 %) 89.6°
Dimming method	5 brightness steps, operated from the control panel on the upright
Mode selection / sensor	Five settings selected from the control panel; seat sensor; last setting remembered; night-light function
Light source	2835 120 × 1 W (4,000 K) + 80 × 1 W (2,700 K)
Photobiological safety / life	RG0 (exempt group) · 50,000 h service life
Photometric data files	.GOS distribution files for the reading and axis-control settings (EVERFINE GO-2000A)
Product size / packing	W 295 × L 972 × H 723 mm · packed 1,095 × 265 × 120 mm, 1 pc per carton
Material / weight	Aluminium alloy with ABS and PC parts · 4.05 kg net / 5.63 kg gross
Certification / warranty	CE · RoHS · UL · 5 years

Light output modes

Mode	Light source	Colour temperature	Declared output	Brightness	Night light
Reading	Main light	4,000 K	4,632 lm	5 steps	—
Eye-comfort axis	Main light	2,700 K	3,272 lm	5 steps	—
Soft comfort	Main light	2,700 K	—	5 steps	—
Bright Light	Main light	2,700 – 4,000 K	—	5 steps	—
Breathing light	Main light	2,700 – 4,000 K	—	5 steps	Yes

All five settings are selected from the control panel on the upright; brightness is adjusted in five steps. Bright Light and Breathing light are the high-output and breathing-light settings.

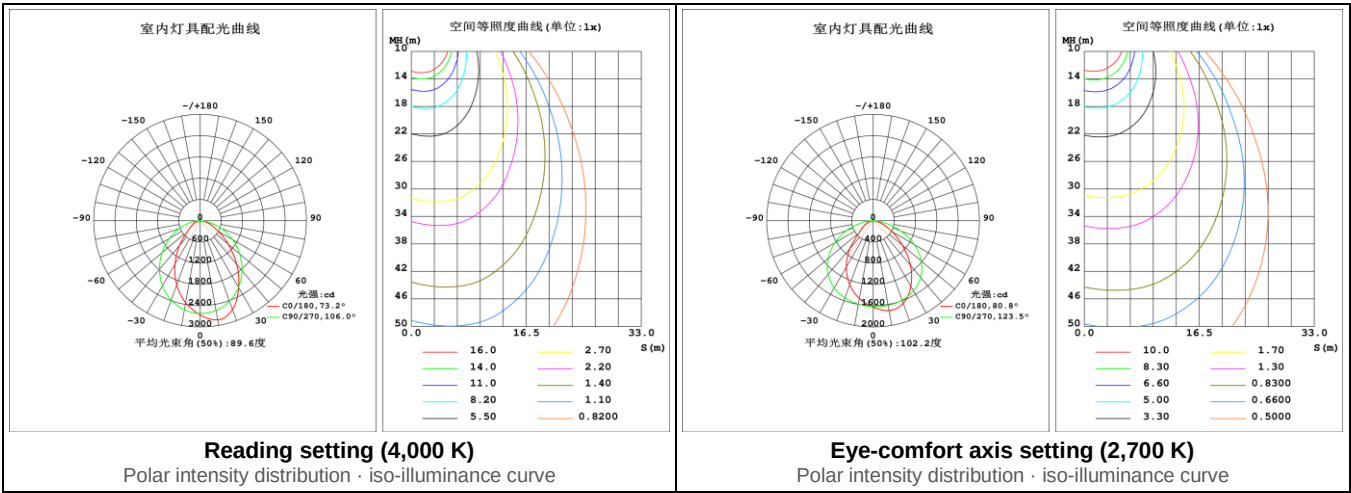
Measured light distribution (goniophotometer)

Setting	Total luminous flux	Luminous efficacy	Peak intensity	Beam angle C0/180	Beam angle C90/270	CIE class	Test date
Reading	5,822 lm	81.3 lm/W	2,844 cd	73.2°	106.0°	Direct	14 Mar 2026
Eye-comfort axis	4,206 lm	57.7 lm/W	1,720 cd	80.8°	123.5°	Direct	14 Mar 2026

Measured on an EVERFINE GO-2000A goniophotometer (C-γ system, C steps 90°, γ steps 0.5°, test distance 9.13 m, ambient 25.3 °C / 65 % RH, report of 14 Mar 2026). UGR tables in the test records are calculated to CIE Pub. 117.

Photometric data

Measured luminous intensity distribution and iso-illuminance curves.



Measured on an EVERFINE GO-2000A goniophotometer (test record of 14 Mar 2026, model TC2). Left-hand panel of each figure: luminous intensity distribution; right-hand panel: iso-illuminance curve (lx).

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. 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 lamp head or place objects on it. Place the luminaire on a firm, level surface. 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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