

ZX-TS1 desk luminaire



ZX-TS1 is a LED desk luminaire built around two three-axis adjustable light arms — a “solar wing” layout — so that both panels can be aimed independently at the work surface. The white channels cover 2700 K to 5000 K, a separate gold channel adds 1800 K, and a screen clock is built into the pole. Brightness is adjusted steplessly from 10 % to 100 % with the slide dimmer and the rotary selector sets the colour temperature in steps. Three scene modes plus a candlelight mode are recalled from the control panel, the last setting is remembered, and a night-light function is included. The light arms are side-emitting and the body is made of steel and aluminium with acrylic optics. In the factory measurement the luminaire draws 27.1 – 27.4 W and produces 528 lm at 2700 K, 598 lm at 3600 K and 658 lm at 5000 K, with Ra 96.6 / 93.9 / 97.0 and a measured power factor of 0.958.

Features

Light output (measured)	528 lm (2700 K) · 598 lm (3600 K) · 658 lm (5000 K)
Rated power / current / PF	27 W · 0.13 A · power factor 0.958 (measured 27.1 – 27.4 W)
Colour temperature	2700 K / 3600 K / 5000 K settings, plus a gold 1800 K channel
Dimming	Stepless 10 – 100 % brightness with the slide dimmer; colour temperature set in steps with the rotary selector
Scene modes	3 + 1 preset modes — Reading, Relax, Sleep, Candlelight — with memory function; night-light function included
Screen clock	Display built into the pole
Colour rendering (measured)	Ra 96.6 (2700 K) · Ra 93.9 (3600 K) · Ra 97.0 (5000 K); R9 98 / 77 / 88
Colour consistency (measured)	SDCM 4.5 (2700 K) · 7.2 (3600 K) · 4.4 (5000 K); TM-30 Rf 95 – 97 · Rg 102 – 104
Glare	UGR < 10
Illuminance on the desk	≥ 1,000 lx; uniformity ≤ 2.5
Light arms	Two arms, three-axis adjustable; side-emitting
Photobiological safety	RG0 (exempt group)
Housing	Steel and aluminium body with acrylic optics
Product size / weight	180 × 820 × 520 mm (L × W × H) · 3.1 kg net / 4.2 kg gross
Warranty	5 years

Application areas

Home study areas, home offices, reading and writing tasks, bedrooms and living rooms.

Technical data

Input voltage	AC 220 – 240 V, 50 Hz
Rated power	27 W (measured 27.1 – 27.4 W over the three white settings)
Operating current	0.128 – 0.130 A (measured)
Power factor	0.958 (measured)
Luminous flux (measured)	528 lm (2700 K) · 598 lm (3600 K) · 658 lm (5000 K)
Luminous efficacy (measured)	19.3 lm/W (2700 K) · 22.0 lm/W (3600 K) · 24.3 lm/W (5000 K)
Colour temperature	2700 K / 3600 K / 5000 K settings (measured 2,626 K / 3,856 K / 5,575 K) · 1800 K gold channel
Colour rendering index	Ra 96.6 (2700 K) · Ra 93.9 (3600 K) · Ra 97.0 (5000 K); R9 98 / 77 / 88 (measured)
Colour consistency	SDCM 4.5 (2700 K) · 7.2 (3600 K) · 4.4 (5000 K) (measured)
Colour metrics (TM-30)	Rf 95 / 96 / 97 · Rg 102 / 104 / 102 (measured)
Glare	UGR < 10
Illuminance / uniformity	≥ 1,000 lx on the desk / ≤ 2.5
Light source	White: 2835 × 112 pcs (0.5 W each), 2700 K + 5000 K; gold channel: 2835 × 20 pcs (0.5 W each), 1800 K
Optical design	Side-emitting light arms; no direct view of the LEDs
Adjustment	Two light arms, three-axis adjustable; no castors
Dimming method	Stepless (continuous) 10 – 100 % brightness from the slide dimmer; colour temperature selected in steps with the rotary selector
Mode selection	3 + 1 scene modes selected from the control panel, with memory function; night-light function; screen clock display
Product size (L × W × H)	180 × 820 × 520 mm
Material	Steel, aluminium, acrylic
Net weight / gross weight	3.1 kg / 4.2 kg
Packing	211 × 211 × 600 mm, 1 pc per carton; carton gross weight 4.2 kg
Certification	CE · RoHS · UL
Warranty	5 years

Measured performance (factory test report)

Setting	Measured CCT	Luminous flux	Efficacy	Ra	R9	SDCM	TM-30 (Rf / Rg)
2700 K	2,626 K	528 lm	19.3 lm/W	96.6	98	4.5	95 / 102
3600 K	3,856 K	598 lm	22.0 lm/W	93.9	77	7.2	96 / 104
5000 K	5,575 K	658 lm	24.3 lm/W	97.0	88	4.4	97 / 102

Integrating-sphere measurement of the complete luminaire through its own driver at AC 220 V, 50 Hz (test record of 30 Sep 2026); power 27.1 – 27.4 W at power factor 0.958. The 3,600 K setting is the mixed white channel; the 5,000 K setting is the white 5000 K channel.

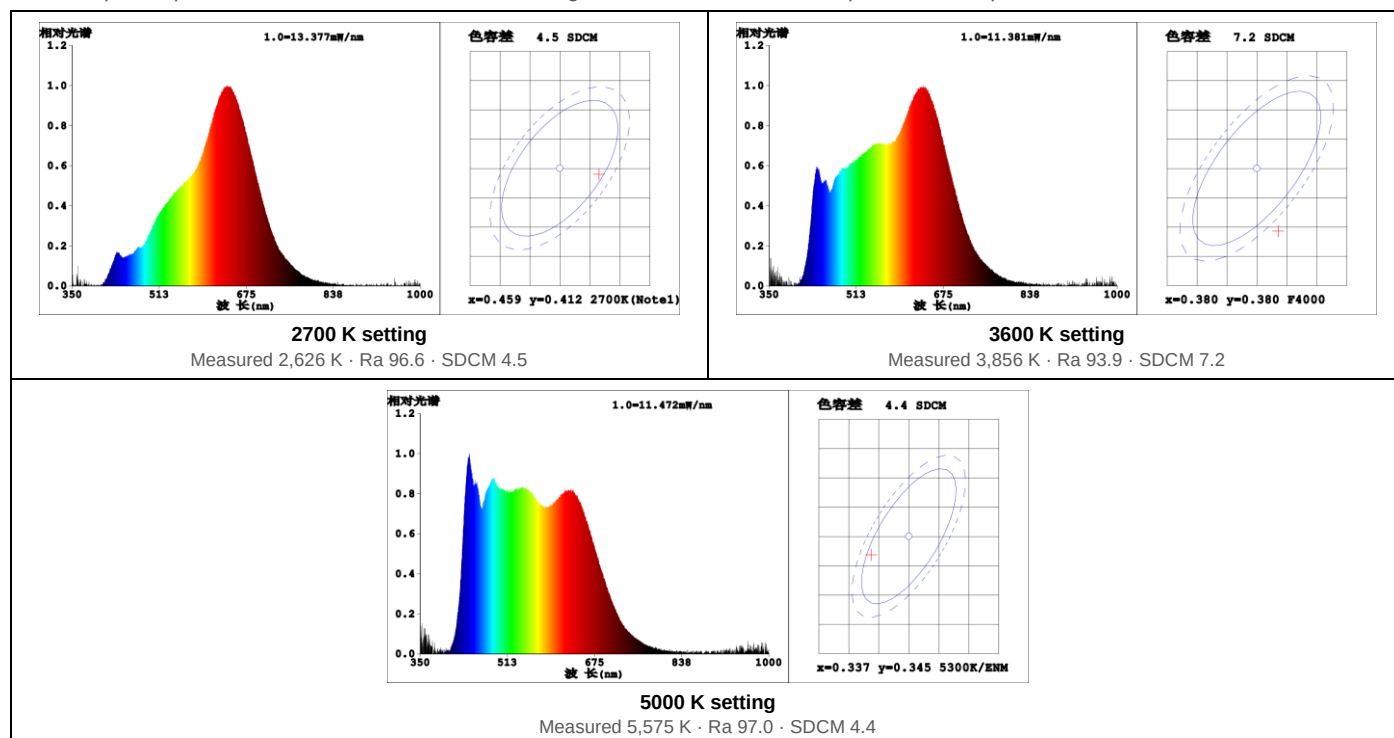
Scene modes

Mode	Function
Reading	Preset for reading and study tasks
Relax	Preset for relaxed ambient lighting
Sleep	Preset dimmed warm setting for falling asleep
Candlelight	Decorative gold-light setting using the 1800 K channel

Scene modes are selected from the control panel; the last setting used is restored when the luminaire is switched on again.

Photometric data

Relative spectral power distribution of the three white settings, measured on the test sample at rated output



Measured with an EVERFINE HAAS-1200 spectroradiometer system (measurement record of 30 Sep 2026); the right-hand panel of each figure is the colour-ellipse plot produced by the instrument. The gold 1800 K channel is a separate decorative light source and is not part of the white light output.

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.
- Move the light arms by hand only and do not force them beyond their travel stops. Do not cover the light arms and do not place the luminaire on an unstable surface. 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; for concrete data and shipping inspection reports please contact us. Information is subject to change without notice. Please verify all details before ordering.

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