

ZX-TS2 desk luminaire



ZX-TS2 (model TS2PY) is a desk luminaire built around two three-axis adjustable light arms on a 180 × 820 mm base, with a separate shadow-puppet gold-light column. The white channels cover 2,700 K to 5,000 K and the gold channel adds 1,800 K from a phosphor-free multi-primary source. 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 and the last setting is remembered. In the factory measurement the luminaire draws 27.5 W and produces 437 lm at 2,700 K, 495 lm at 3,600 K and 540 lm at 5,000 K, with a measured colour rendering index of Ra 93.7 – 97.0. The body is steel and aluminium with acrylic optics.

Features

Light output (measured)	437 lm (2,700 K) · 495 lm (3,600 K) · 540 lm (5,000 K)
Rated power / current / PF	30 W rated (measured 27.5 – 27.7 W) · 0.13 A · power factor 0.959
Colour temperature	2,700 K / 3,600 K / 5,000 K settings, plus an 1,800 K gold 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 96.3 (2,700 K) · Ra 93.7 (3,600 K) · Ra 97.0 (5,000 K); R9 97 / 76 / 88
Colour metrics (TM-30)	Rf 95 – 97 · Rg 102 – 104 (measured)
Glare / flicker	UGR < 10 · no visible flicker
Illuminance on the desk	≥ 1,000 lx; uniformity ≤ 2.5
Light source	White 2835 × 112 pcs (0.5 W, 2,700 K + 5,000 K); gold column 5050 × 20 pcs (0.2 W, phosphor-free)
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

Series / model name	KN-8875PY · TS2PY
Input voltage	AC 220 – 240 V, 50 Hz
Rated power	30 W rated (measured 27.5 – 27.7 W over the three white settings)
Operating current	0.130 – 0.131 A (measured)
Power factor	0.959 (measured)
Luminous flux (measured)	437 lm (2,700 K) · 495 lm (3,600 K) · 540 lm (5,000 K)
Luminous efficacy (measured)	15.8 lm/W (2,700 K) · 18.0 lm/W (3,600 K) · 19.7 lm/W (5,000 K)
Colour temperature	2,700 K / 3,600 K / 5,000 K settings (measured 2,608 K / 3,798 K / 5,447 K); gold channel 1,800 K
Colour rendering index	Ra 96.3 (2,700 K) · Ra 93.7 (3,600 K) · Ra 97.0 (5,000 K); R9 97 / 76 / 88 (measured)
Colour metrics (TM-30)	Rf 95 / 95 / 97 · Rg 103 / 104 / 102 (measured)
Glare	UGR < 10
Flicker	No visible flicker
Illuminance / uniformity	≥ 1,000 lx on the desk / ≤ 2.5
Light source	White 2835 × 112 pcs (0.5 W each), 2,700 K + 5,000 K; gold column 5050 × 20 pcs (0.2 W each), 1,800 K phosphor-free
Optical design	Side-emitting light arms; no direct view of the LEDs
Adjustment	Two light arms, three-axis adjustable; no castors
Dimming method	Stepless 10 – 100 % brightness from the slide dimmer; colour temperature selected in steps with the rotary selector
Mode selection	3 + 1 scene modes from the control panel, with memory; night light; screen clock display
Product size (L × W × H)	180 × 820 × 520 mm
Material	Steel and aluminium with acrylic optics
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 / warranty	CE · RoHS · UL · 5 years

Light output modes

Mode	Function	Dimming
Reading	Preset for reading and study tasks	Stepless 10 – 100 %
Relax	Preset for relaxed ambient lighting	Stepless 10 – 100 %
Sleep	Preset dimmed warm setting for falling asleep	Stepless 10 – 100 %
Candlelight	Decorative gold-light setting using the 1,800 K channel	Stepless 10 – 100 %

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

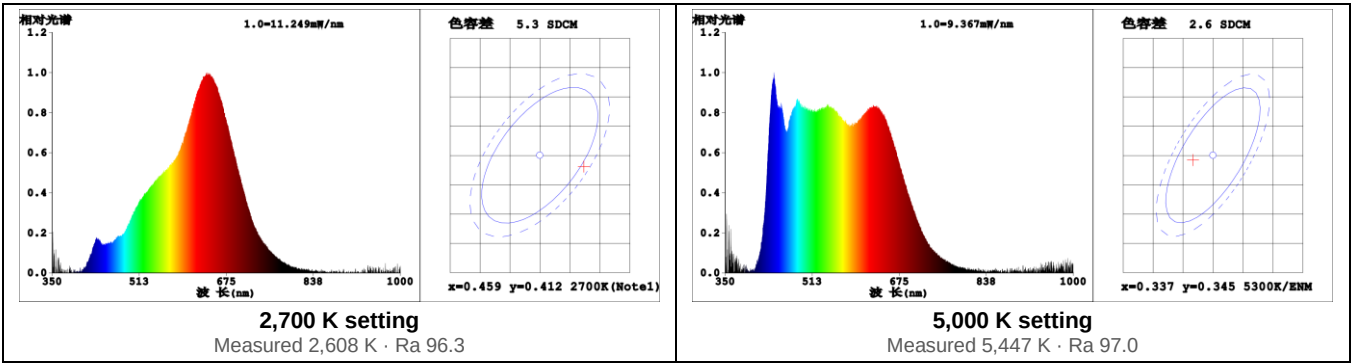
Measured performance (factory test report)

Setting	Measured CCT	Luminous flux	Efficacy	Ra	R9	TM-30 (Rf / Rg)
2,700 K	2,608 K	437 lm	15.8 lm/W	96.3	97	95 / 103
3,600 K	3,798 K	495 lm	18.0 lm/W	93.7	76	95 / 104
5,000 K	5,447 K	540 lm	19.7 lm/W	97.0	88	97 / 102

Integrating-sphere measurement of the complete luminaire at AC 220 V, 50 Hz (test record of 30 Sep 2026); power 27.5 – 27.7 W and power factor 0.959 measured. The 3,600 K setting is the mixed white channel; the 5,000 K setting is the white 5000 K channel.

Photometric data

Relative spectral power distribution and colour-ellipse plots of the white settings, measured at rated output.



Measured with an EVERFINE HAAS-1200 spectroradiometer system (test record of 30 Sep 2026, shadow-puppet version). 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.

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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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