

LED

GENERAL CHARACTERISTICS

- pleasant diffuse characteristic
- passive cooling
- high light transmission of microprismatic diffuser
- high colour rendering index (CRI>80)
- available in 3000K and 4000K
- on request 2700K and 5000K
- light output range 2600lm and 4400lm
- on request – different luminaire dimensions, or installation type
- long lifetime 50.000 hours (L70/B50)
- harmless towards illuminated objects – zero UV and IR radiation
- considerate to environment – without mercury content
- application areas – offices, classrooms, banks, stores, corridors, showrooms, hospitals, meeting rooms

VALUE FOR PRICE

- 1 market leading ratio between price, performance and quality
- 2 high luminous efficiency, low power consumption
- 3 low weight 3,6kg, do not stress the ceiling construction
- 4 quality OSRAM LED technology - 130lm/W
- 5 enclosed optical system prevents dirt contamination- easy maintenance, constant photometric characteristics
- 6 excellent lighting characteristics
- 7 top of luminaire housing made of aluminium – excellent cooling ability
- 8 product fully manufactured and assembled in Slovakia

SPARTAN

Ready to win the LED battle.

THE MODEST WARRIOR.

SPARTAN with the OSRAM LED technology (130lm/W) reaches the double system efficiency compared to fluorescent predecessors. Special emphasis was given to product price, that represents today the lowest limit for entering into the world of branded european LED technology. However, none of relevant technical parameters were suppressed on the expense of price. The luminaire thus offers not only ultra low power consumption, but also high colour rendering index CRI>80, required by the standard in interior applications. Available in two light outputs 2.600lm and 4.400lm replaces the most used fluorescent versions 4x18W resp. 4x14W, by significantly lower power consumption.

Recessed luminaire with high-efficient LED modules, dedicated for installation into T-bar ceilings, plasterboard ceilings or any other type of false ceilings. Functional design in combination with high light output offers the full-value alternative to fluorescent luminaires. Optical system created by microprismatic diffuser provides pleasant diffuse characteristics of radiated light.

THE MOST MODERN LED MODULES FROM RENOWNED PRODUCER

- colour rendering index more than 80 guarantees very good colour perception and colour recognition in illuminated space
- luminous flux 2600lm a 4400lm
- available in 3000K and 4000K
- on request 2.700K and 5.000K

DOUBLE PARABOLIC LED LOUVRE MADE OF MATT ANODISED ALUMINIUM

- high level of prevention against glare
- UGR<19
- high optical efficiency of the fixture
- excellent light distribution
- matt surface - classy look, no dust visible on the surface





SPARTAN

RT600, L RT600



Recessed luminaire for ceilings with exposed grids, module size 600x600, 625x625 or plasterboard ceilings.

Luminaire housing made of 0,6mm sheet steel, white powder coated finish (RAL9003). Upper part of the luminaire made of aluminium plate, that serves as passive heat sink for employed LED modules. Increased protection of the optical part against dirt (IP40), pleasant diffuse lighting characteristics.

Lamp	LED
Cooling	PASSIVE
Class	I
Ingress protection	IP40
Weight	3,6 kg

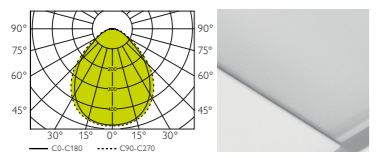
INSTALLATION TYPE

- RT600 – recessed luminaire, ceiling with exposed grids, module size 600x600
- RT625 – recessed luminaire, ceiling with exposed grids, module size 625x625
- R – recessed luminaire, plasterboard ceiling

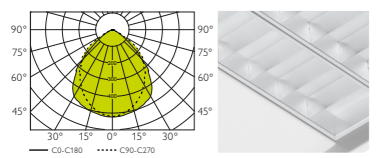


OPTICAL SYSTEM

- DMP – microprismatic diffuser made of PMMA, semi-wide beam angle, increased glare prevention from side view
- PML (parabolic matt louvre) – matt, anodized, aluminium, double parabolic louvre



SPARTAN 4400lm DMP



SPARTAN L 4400lm PML

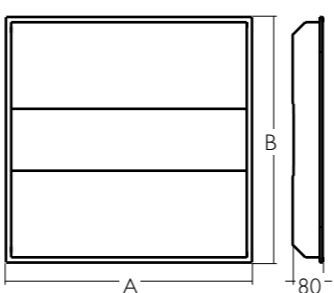


ELECTRICAL EQUIPMENT

- 2xLED module fixed at the bottom of luminaire housing
- electronic LED driver
- terminal block with strain relief, max. 2,5mm²

OPTIONAL EQUIPMENT

- wiring with emergency unit (1 or 3h)
- wiring with dimmable electronic control gear (DSI, DALI)
- various colour finishing
- fast connectors (Wieland, Wago)



Type	System power (W)	Equivalent	A (mm)	B (mm)	kg
SPARTAN RT600 LED 2600lm	22	2x14W T5	595	595	3,6
SPARTAN RT600 LED 4400lm	36	4x14W T5	595	595	3,6
SPARTAN L RT600 LED 2600lm	22	2x14W T5	595	595	3,6
SPARTAN L RT600 LED 4400lm	36	4x14W T5	595	595	3,6

CODE TYPE

ST00RT60LE02600	SPARTAN RT600 LED 2600lm
ST00RT60LE04400	SPARTAN RT600 LED 4400lm
ST10RT60LE02600	SPARTAN L RT600 LED 2600lm
ST10RT60LE04400	SPARTAN L RT600 LED 4400lm

SPECIFICATION

cct	optics	cri	control gear	colour	accessories
3000K	DMP	80	ECG		M 3h
4000K	PSL		DALI		

Although modern LED luminaires are still more expensive than their fluorescent equivalents, thanks to their low power consumption, maintenance-free operation and very long LED lifetime, the investment could come back in a very short time.

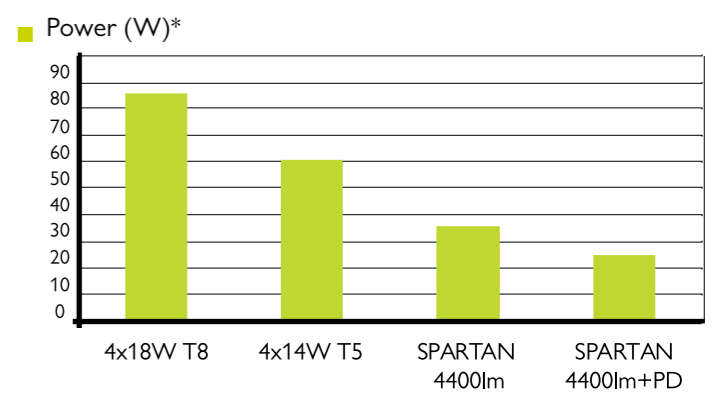
As SPARTAN needs substantially less electric energy to achieve the comparable lumen output as its fluorescent equivalent, despite of higher buying price, costs for purchasing of LED luminaires could come back in a very short time – pay-back period is **about two years**.

Technology comparison

Type	Control gear	System power (W)*	Luminous flux (lamp)	Optical efficiency	Luminous flux (system)
4x18W T8	conventional control gear (B2)	86	5400 lm	0,62	3350 lm
4x14W T5	standard electronic control gear (A2)	61	4800 lm	0,70	3360 lm
SPARTAN RT600 LED 4.400lm	constant current driver	36	4400 lm	0,76	3350 lm
SPARTAN RT600 LED 4.400lm + PD**	constant current driver, presence detector	0/36	0/4400 lm	0,76	0/3350 lm

* system power consumptions according to CELMA Energy Efficiency Index (EEI)
** PD = presence detector

Energy consumption comparison



TCO - total cost of ownership comparison

