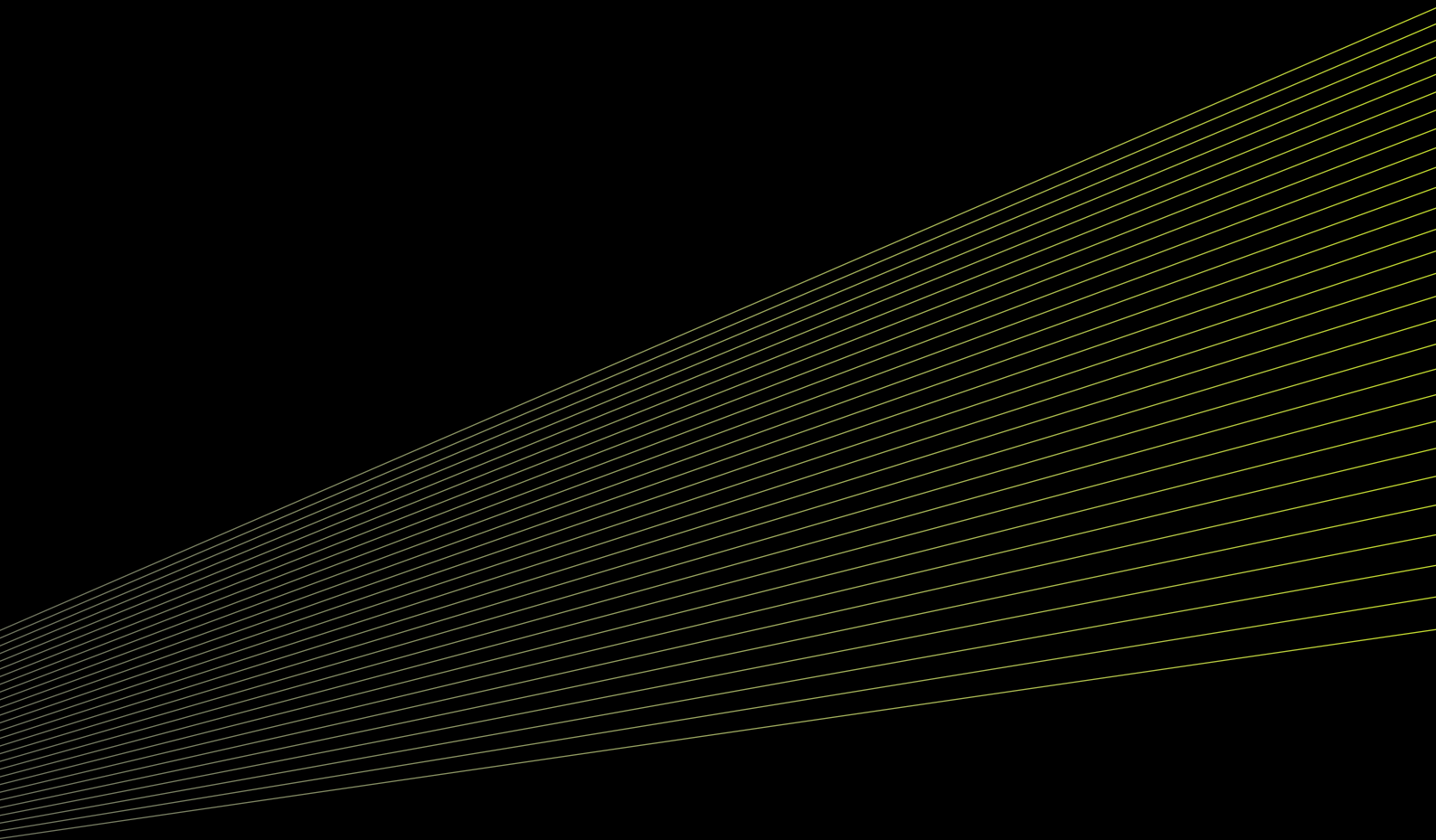
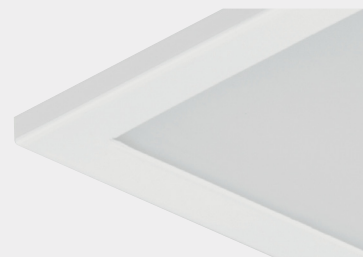
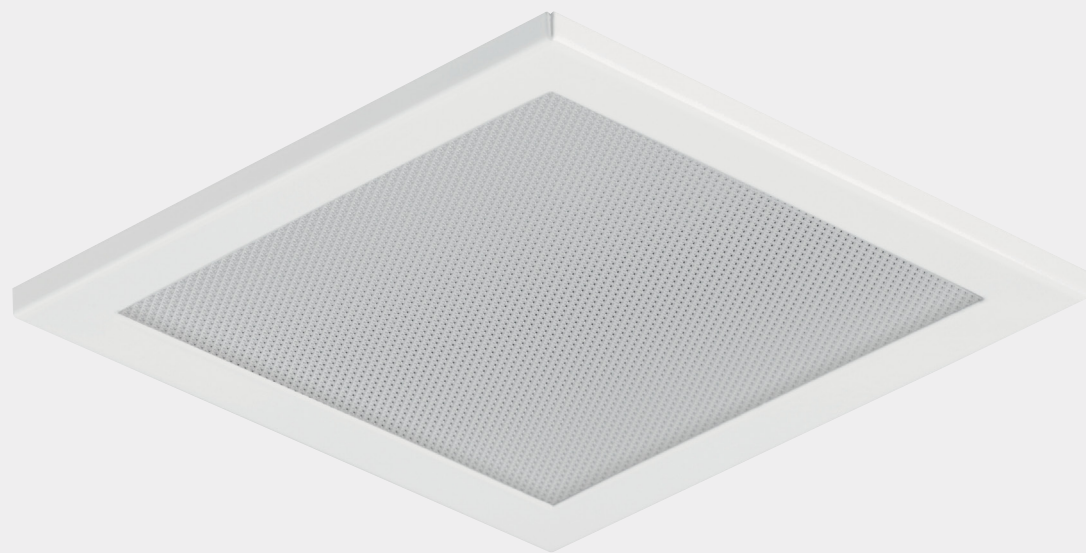


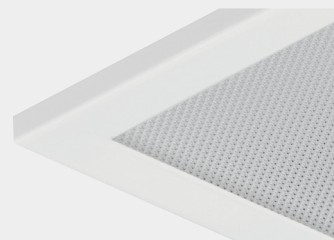
**ENLIT**

**SELECTION 2018**

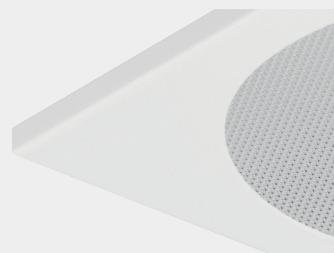




ORB Q LED DO + QF1



ORB Q LED DMP + QF1



ORB Q LED DMP + QF2

LED

#### GENERAL CHARACTERISTICS

- passive heat sink
- high luminous efficiency, low power consumption
- high colour rendering index (CRI>80)
- available in 3000K and 4000K
- considerate to environment – without mercury content
- harmless towards illuminated objects – zero UV and IR radiation
- long lifetime 50.000 hours (L70/B50)
- optional two types of bottom frame
- on special request – different luminaire dimensions
- version with IP65 on request
- light output range 1100 – 2000lm
- application areas - corridors, residential areas, public areas, showrooms, hospitals, laboratories, shops, hotels, work rooms, meeting rooms, banks, restaurants, production areas, wet and dusty environments

#### VALUE FOR PRICE

- 1 high ingress protection of optical part IP54
- 2 Osram LED module
- 3 ultra low weight 250g do not stress the ceiling construction
- 4 low installation height
- 5 extremely quick and reliable fixation into ceilings of different thickness just by one spring
- 6 two types of optical system
- 7 luminaire housing made of aluminium – excellent protection against corrosion, excellent cooling ability
- 8 product fully manufactured and assembled in Slovakia

## ORB Q LED

Performance and simplicity.

### DO YOU STILL REALLY THINK THAT LED TECHNOLOGY IS EXPENSIVE?

ORB Q LED is a new luminaire, that was from the begin developed to reach balanced ratio between price, quality and technical parameters, for purpose of being attractive for wide group of concerned persons. The luminaire is designed for mass application in any type of areas, where downlights with incandescent or compact fluorescent lamps were used until now.

Downlight with powerful LED module and robust square aluminium housing, dedicated for recessed installation into T-bar ceilings, plasterboard ceilings or any other type of false ceilings.

Possibility to choose from two light outputs in combination with two types of optical systems ensures the right choice of product for every application. The basic version could be optionally complemented with two types of bottom decorative frame.

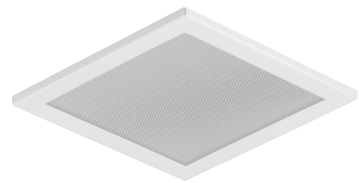
### THE MODERN LED MODULES FROM RENOWNED PRODUCER

- colour rendering index more than 80 guarantees very good colour perception and colour recognition in illuminated space
- luminous flux 1.100lm, and 2000lm
- pleasant warm temperature, preferred in residential interiors, is also available (3000K)

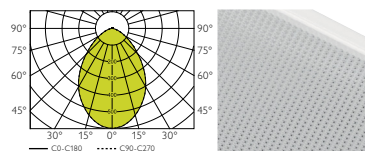


# ORB Q LED

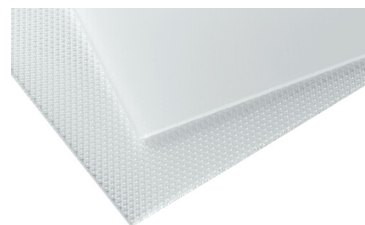
## V1



Lamp	LED
Cooling	PASSIVE
Class	I
Ingress protection	IP20/54
Weight	0,25-0,34kg



ORB Q LED V1 1100lm DMP



OPAL / MICROPRISMATIC DIFFUSER

Luminaire housing is made of aluminium sheet, that serves as a passive heat sink of employed LED module at the same time. Luminaire housing finished with matt white powder coated colour (RAL9003). Bottom visible frames made of sheet steel, surface treated with white powder coated colour (RAL9003). Other colours on request.

Extremely quick and reliable fixation into ceilings of different thickness just by one strong steel spring. Increased ingress protection of the luminaire against dust and water (IP54) extends the application possibility also in demanding areas. Pleasant diffuse light distribution. Perfect hiding capability of bottom diffuser - homogeneously backlighted, without visible LED hot spots.

### INSTALLATION TYPE

- R – luminaire recessed into various types of false ceilings such as plasterboard, ceiling tiles, wooden ceiling and similar

### OPTICAL SYSTEM

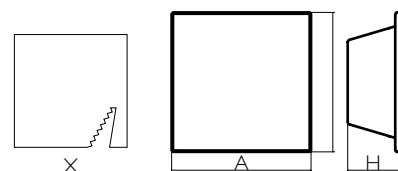
- DO – opal diffuser, made of sand blasted PC, wide beam angle, diffuse light distribution
- DMP - microprismatic diffuser made of PMMA (PC on request), semi-wide beam angle, increased glare prevention from side view
- white internal reflector with high portion of diffuse reflection for increase of optical efficiency

### ELECTRICAL EQUIPMENT

- direct supply with mains voltage (220-240V, 50/60Hz)
- 3-pole screwless terminal block 0,5-2,5 mm<sup>2</sup>
- strain relief for supply cable
- integrated safety thermal fuse - switches off the fixture in case of overheating

### OPTIONAL EQUIPMENT/ACCESSORIES

- QF1 - square decorative frame
- QF2 - square decorative frame with central circle
- optional colour of decorative frames



Type	System power (W)*	Equivalent	A/X (mm)	H (mm)	kg
ORB Q LED V1 1100lm	13	1x26W TC-DEL	155/130	60	0,25
ORB Q LED V1 2000lm	25	2x26W TC-DEL	155/130	82	0,34

\* CCT 4000K

CODE

TYPE

SPECIFICATION

OLQ1R000LE01100 ORB Q LED V1 1100lm  
OLQ1R000LE02000 ORB Q LED V1 2000lm

cct	optics	cri	control gear	accessories	colour of accessories
3000K 4000K	DO DMP	83		QF1 QF2	optionally

General problems of many today's LED luminaires are:

- high price, thereby long pay-back time (event. no pay-back at all)
- weak technical parameters, uselessly trying to reach or to be better than fluorescent predecessors (low colour rendering index, availability only in cool white colour, low system efficiency of the luminaire)
- cheap components used, high failure rate

Uncompromising answer to all three points is the new ORB Q LED equipped with OSRAM technology. With its price, this luminaire is definitely erasing the difference between luminaires utilizing classic technology and those utilizing LEDs.

OSRAM, as one of the market leaders in production of components for lighting industry is at the same time adequate guaranty of qualitative and technical parameters – colour rendering index CRI>80, two colour temperatures available warm 3000K and neutral 4000K, efficiency 84lm/W.

### Technology comparison

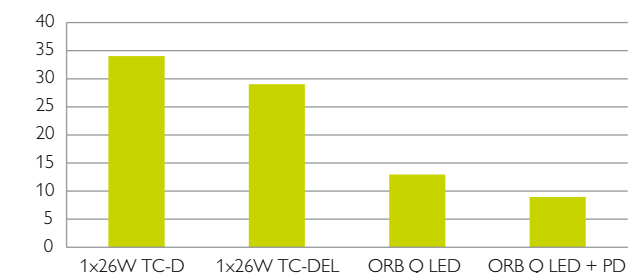
Type	Control gear	System power (W)*	Luminous flux (lamp)	Optical efficiency	Luminous flux (system)
1x26W TC-D	conventional control gear (B2)	34	1800 lm	0,65	1170
1x26W TC-DEL	standard electronic control gear (A3)	29	1800lm	0,65	1170
ORB Q LED V1 1100lm	direct 230V	13	1100lm	1	1100
ORB Q LED V1 1100lm + PD**	direct 230V, presence detector	0/13	0/1100lm	1	1100

\* system power consumptions according to CELMA Energy Efficiency Index (EEI)

\*\* PD = presence detector

### Energy consumption comparison

■ Power (W)\*

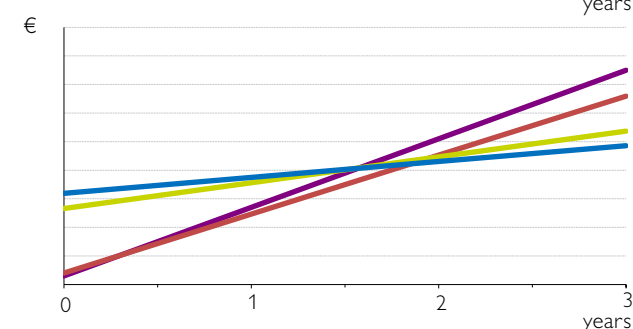
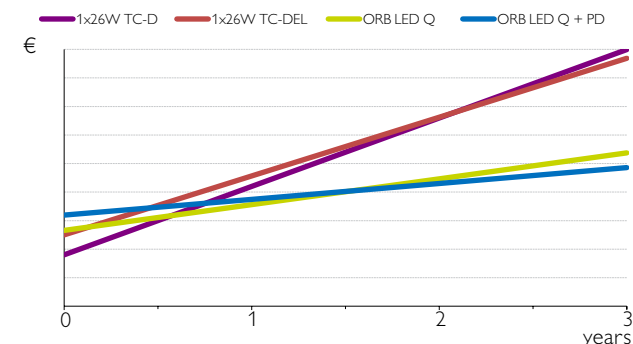


### THE NEW LIGHTING INSTALLATION

Speculations, if LED technology makes sense in specific space, eventually how long will be the pay-back time for the new LED installation, makes no sense in case of ORB Q LED: as purchasing price of ORB Q LED is equal or even lower than by fluorescent parents, the payback time is immediate. The user of lighting installation could enjoy advantages of LED technology from the first seconds after the luminaire installation - such as substantially lower power consumption, maintenance-free operation or very long lifetime of LED modules.

### REPLACEMENT OF EXISTING FLUORESCENT LUMINAIRES FOR THE NEW LED LUMINAIRES

As ORB Q LED needs substantially less electric energy to achieve the comparable lumen output to its fluorescent equivalent, by its low purchasing price, costs for reconstruction of the lighting installation could come back in a very short time – pay-back period is within two years. It means, that reconstruction of the original lighting installation based on fluorescents, makes sense at any time.



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