

ZENITH SQ LIGHT

Technical Datasheet

Square LED element for urban furnishing, pathways and cycle lanes



PRODUCT FEATURES

Application	Decorative and architectural lighting for pathways and cycle lanes
Insulation class	II
Protection rating	IP66
Impact resistance	> IK08
Installation	Recessed installation by direct embedding in concrete
Dimensions/weight	Section 335 x 150 mm; max 18 kg; plate 10 kg; profiles according to model
Color	RAL 8017 / RAL 7016 / RAL 9006; other RAL colors on request
Certifications	Components compliant with applicable CE and ENEC standards

OPTICAL UNIT FEATURES

Optical unit	Modular LED modules with LEDiL or similar optics
LED	CREE XP-G3
Minimum efficacy	>194 lm/W @55°C; >202 lm/W @25°C
CCT	2200 K / 3000 K / 4000 K / 5700 K; other color temperatures on request
CRI	Ra >= 70; other values on request
Optical material	PMMA, RoHS compliant
LED lifetime	>353,000 h L90B20 @55°C
Temperatures	Operating -40°C/+55°C; ambient -25°C/+50°C
Optic	2x6VSM rotationally symmetrical or 2x6ME/DWC/T4B asymmetric
Lens format	Rectangular 71.4 x 173 mm

MECHANICAL FEATURES

Body	Epoxy powder-coated square aluminium; 100 x 100 mm profile
Screen	4 mm thick PMMA
Wiring	2 x 1.5 mm² power cable - 2 m
Fixing	Recessed installation in concrete
Finish	Epoxy powder coating
Material	Painted square aluminium

ELECTRICAL FEATURES

Voltage	220/240 V - 50/60 Hz
Driver	Dimmable electronic Class II driver, IP67/IP40, Meanwell / Inventronics or equivalent
Driver efficiency	Up to 95%
Power unit	Class II
Power factor	cos Phi > 0.95
Protections	Short circuit, overvoltage and overcurrent
SPD	6 kV line-line; 10 kV line-earth
Dimming / Smart	1-10V, PWM, resistor, DALI or timer on request
Enclosure	Plastic/aluminium material

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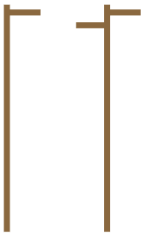
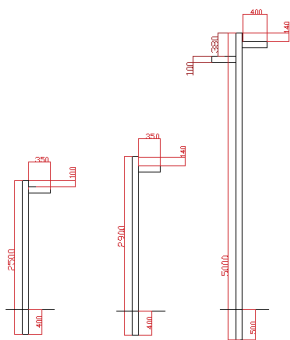
Dimensions and Optics



DIMENSIONS

Model	Gross power	LED	Source luminous flux	Profile dimensions	Max above-ground height
Zenith SQ H2.5 - 12 LED	30 W	12	>4400 lm	250 x 10 x 10 cm	200 cm
Zenith SQ H3.25 - 12 LED	30 W	12	>4400 lm	290 x 10 x 10 cm	250 cm
Zenith SQ H5 - 12 LED	40 W	12	>6300 lm	500 x 10 x 10 cm	450 cm
Zenith SQ H5 - 12x2 LED	40 W x2	12x2	>6300 x2 lm	500 x 10 x 10 cm	450 cm

TECHNICAL DRAWING



RAL colors

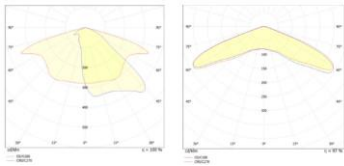
Product variants

Technical drawing / dimensions

OPTICAL UNIT

Standard optic	2x6VSM rotationally symmetrical or 2x6ME/DWC/T4B asymmetric according to application / lighting calculation
Applications	Pathways, cycle lanes, green areas, pedestrian routes, urban furnishing and architectural lighting
Material	RoHS-compliant PMMA
Lens format	Rectangular 71.4 x 173 mm
Intensity class	According to photometric configuration
Variants	Alternative photometries available on request

PHOTOMETRY AND APPLICATIONS



Standard photometry



Urban application example



Park / pathways example

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Technical Data & Code Structure



LUMINOUS PERFORMANCE

Values are to be considered with a +/- 5% tolerance. The nominal source flux varies according to CCT, drive current and optical configuration.

Version	Gross power	LED	Source luminous flux	Profile dimensions	Indicative eff.
Zenith SQ H2.5 - 12 LED	30 W	12	>4400 lm	250 x 10 x 10 cm	~147 lm/W
Zenith SQ H3.25 - 12 LED	30 W	12	>4400 lm	290 x 10 x 10 cm	~147 lm/W
Zenith SQ H5 - 12 LED	40 W	12	>6300 lm	500 x 10 x 10 cm	~158 lm/W
Zenith SQ H5 - 12x2 LED	40 W x2	12x2	>6300 x2 lm	500 x 10 x 10 cm	~158 lm/W

PERFORMANCE NOTES

Color temperature	2200 K / 3000 K / 4000 K / 5700 K; other color temperatures on request.
Color rendering	Ra >= 70; higher values available on request.
Configuration	The nominal luminous flux varies according to the drive current and the LED/optic combination.
Installation	Recessed installation by direct embedding in concrete.

PROPOSED PRODUCT CODE STRUCTURE

The following structure is a proposed format for configuring the ZENITH SQ LIGHT family consistently with the available technical variants.

Pos.	Field	Values	Description
1	Family	ZENITH SQ LIGHT	Square LED luminaire for urban furnishing
2	Height / profile	110 / 250 / 290 / 500 / CUSTOM	Profile size or series
3	Power	020 / 030 / 040 / 060 / 040X2	Nominal gross power
4	No. of LEDs	12 / 24 / 12X2	Number of installed LEDs
5	CCT	22K / 30K / 40K / 57K	2200 K / 3000 K / 4000 K / 5700 K
6	CRI	70 / 80	Standard or optional CRI
7	Optic	VSM / ME / DWC / T4B / ALT	Rotationally symmetrical, asymmetric or alternative
8	Installation	RECESSED / CUSTOM	Installation / fixing method

CONFIGURATION EXAMPLE

EXAMPLE	ZENITH-SQ-500-040X2-12X2-40K-70-DWC-DALI-RECESSED
Description	Zenith SQ H5 double module 40 W x2, 12x2 LED, 4000 K, CRI 70, DWC optic, DALI driver, recessed installation.

DIMMING AND SMART CONTROL

StepDim	Luminous flux reduction after a defined number of hours from switch-on, if supported by the driver.
AstroDim	Reduction based on virtual midnight, if supported by the selected driver.
Smart	Optional provision for smart solutions and remote control.
Driver	Configurations available on request: 1-10V, PWM, resistor, DALI or timer.