

VEGA B9XY

Technical Datasheet



PRODUCT FEATURES

Application	Outdoor lighting, sports facilities and industrial buildings
Insulation class	I-II
Protection rating	IP65
Impact resistance	> IK08
Mounting	By bracket
Dimensions and weight	B9X2: 450 x 620 x 78 mm; max 25 kg B9X3: 450 x 950 x 78 mm; max 38 kg
Colour	Grey, epoxy powder coating
Certifications	Components compliant with applicable CE, ENEC standards

MECHANICAL FEATURES

Body and cover	Die-cast aluminium with epoxy powder coating
Screen	Transparent glass, 4 mm thick
Heat sink	Internal V-shaped aluminium fins
Wiring	Double silicone cable and PG7 cable gland
Fixing	Adjustable bracket for installation on dedicated support

OPTICAL UNIT FEATURES

Optical unit	Modular LED modules with LEDiL or similar optics
LED	CREE XP-G3 / XP-G4
Minimum efficiency @350mA	XP-G3 S6/S7 series: >188 lm/W @55°C; >205 lm/W @25°C
CCT	4000 K / 5700 K; other colour temperatures on request
CRI	Ra >= 70; other values on request
Optic	LEDiL 2x2RS 12° / 2x2M 25° / 2x2RW 45° / 2x2W 60° / 2x2WWW 90° or other
Optic material	PMMA, RoHS compliant
LED lifetime	>353,000 h L90-B10
Temperatures	Operating -40°C/+55°C; ambient -25°C/+50°C

ELECTRICAL FEATURES

Voltage	220/240 V - 50/60 Hz
Driver	Dimmable electronic driver, Class I-II, IP67/IP40, Meanwell / Inventronics
Driver efficiency	Up to 94%
Power unit	Class I-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, timer; provision for Smart solutions
Driver lifetime	>80,000 h

VEGA B9XY

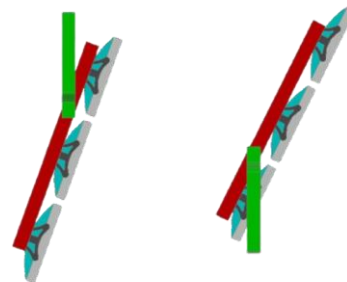
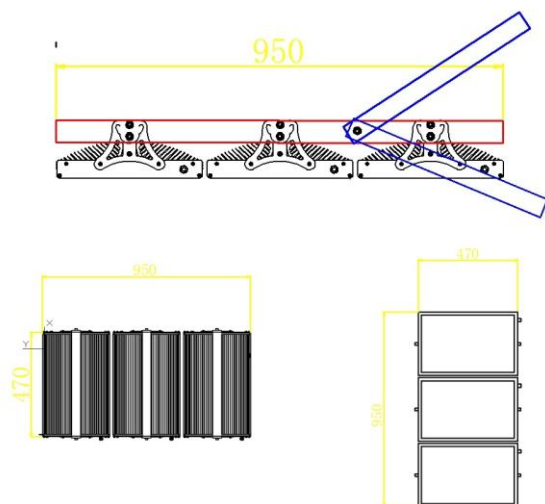
Dimensions and Optics

DIMENSIONS

Model	L [mm]	W [mm]	H [mm]	Mounting	Max weight
VEGA B9X2	450	620	78	Bracket	25 kg
VEGA B9X3	450	950	78	Bracket	38 kg

TECHNICAL DRAWING B9X2 / B9X3

3D MODELLING

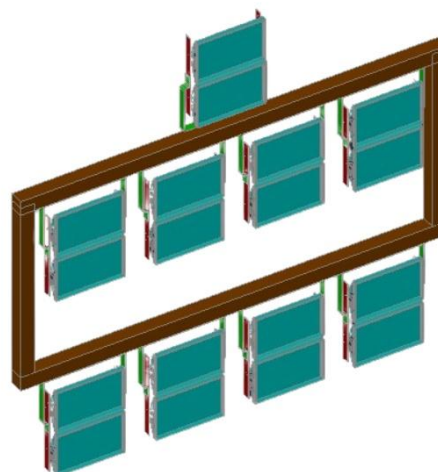
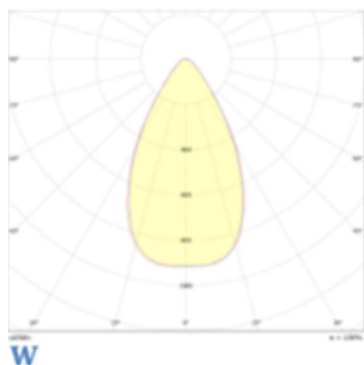


AVAILABLE OPTICS

LEDiL optics available according to the application and lighting calculation: 2x2RS 12°, 2x2M 25°, 2x2W 60°, 2x2WWW 90° and other configurations on request.

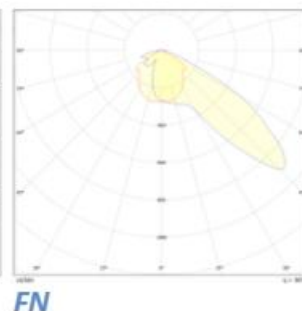
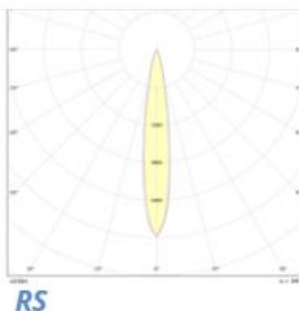
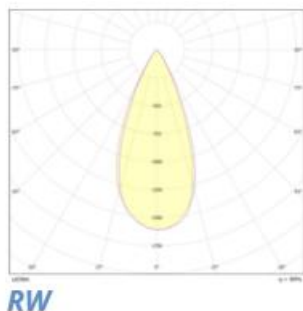
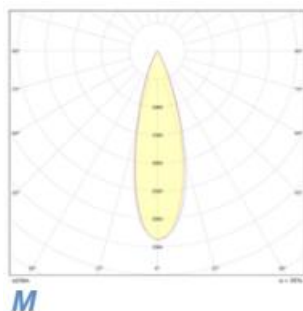
PHOTOMETRIC CURVE / OPTIC EXAMPLE

MULTI-MODULE CONFIGURATIONS



OPTICAL UNIT

Standard optic	LEDiL 2x2RS / 2x2M / 2x2W / 2x2WWW or other optic according to application
Applications	Sports facilities, outdoor areas, yards, industrial buildings, architectural lighting
Material	PMMA RoHS compliant
Lens format	Square 50 x 50 mm
Variants	Alternative photometries available on request



VEGA B9XY

Technical Data & Code Structure

LIGHTING PERFORMANCE

Values are to be considered with a +/- 5% tolerance. Indicative efficiency calculated on the luminous flux emitted by the luminaire and on the net power.

Version	Gross P.	Net P.	LED	Source flux	Luminaire flux	Indicative eff.
VEGA B9X2 300	300 W	285 W	96 (4P x 2) XP-G3	>47093 lm	>44738 lm	~157 lm/W
VEGA B9X2 440	440 W	420 W	144 (6P x 2) XP-G3	>70640 lm	>67108 lm	~160 lm/W
VEGA B9X2 480	480 W	460 W	144 (6P x 2) XP-G3	>78100 lm	>72385 lm	~157 lm/W
VEGA B9X3 660	660 W	630 W	216 (6P x 3) XP-G3	>105960 lm	>100662 lm	~160 lm/W
VEGA B9X3 720	720 W	685 W	216 (6P x 3) XP-G3	>114293 lm	>108578 lm	~159 lm/W
VEGA B9X3 900	900 W	855 W	216 (6P x 3) XP-G4	>140176 lm	>133167 lm	~156 lm/W

PERFORMANCE NOTES

Colour temperature	4000 K / 5700 K; other colour temperatures on request.
Colour rendering	Ra >= 70; higher values available on request.
Configuration	Flux and power vary according to the driving current, LED combination and selected optic.
Installation	By adjustable bracket, according to support configuration.

PROPOSED PRODUCT CODE STRUCTURE

The following structure is an orderly proposal for configuring the VEGA B9XY family consistently with the available technical variants.

Pos.	Field	Values	Description
1	Family	VEGA	High-power LED floodlight
2	Model	B9X2 / B9X3	2- or 3-module configuration
3	Power	300, 440, 480, 660, 720, 900	Nominal gross power
4	N. LED	96 / 144 / 216	Number of installed LEDs
5	CCT	40K / 57K	4000 K / 5700 K
6	CRI	70 / 80	Standard or optional CRI
7	Optic	RS / M / W / WWW / ALT	2x2RS, 2x2M, 2x2W, 2x2WWW or alternative
8	Control	FIX / 1-10 / PWM / DALI / TIM / SMART	Fixed, dimming or smart control

CONFIGURATION EXAMPLE

EXAMPLE	VEGA-B9X3-900-216-40K-70-RS-DALI
Description	VEGA B9X3 900 W, 216 LED, 4000 K, CRI 70, 2x2RS optic, DALI power supply.

NIGHT DIMMING AND SMART CONTROL

StepDim	Flux reduction after a defined number of hours from switch-on. Example: after 4h 80%, after 5h 70%, after 6h 60%, after 7h 50%.
AstroDim	Reduction based on virtual midnight. Example: 22:00 80%, 00:00 70%, 02:00 60%, 04:00 50%.
Smart	Dimmerable DALI/DALI2 driver, wireless/wired
Driver	Configurations available on request: 1-10V, PWM, resistor, DALI or timer.