

VEGA B5

Technical Datasheet



PRODUCT FEATURES

Application	Outdoor lighting, sports facilities, industrial buildings
Insulation class	I-II
Protection rating	IP65
Impact resistance	> IK08
IPEA index	from A3+ to A6+ in accordance with Italian Ministerial Decree 27/09/2017 (C.A.M.)
Mounting	By bracket
Dimensions and weight	240 x 300 x 78 mm; max. 6 kg
Certifications	Components compliant with applicable standards

OPTICAL UNIT FEATURES

Optical unit	Modular LED modules with LEDiL or similar optics
LED	CREE XP-G3
Min. eff. @350mA	>188 lm/W @85°C, 205 lm/W @25°C at 4000K and 5700K >180 lm/W @85°C, 196 lm/W @25°C at 3000K >156 lm/W @85°C, 170 lm/W @25°C at 2200K
CCT	2200K/3000K/4000K/5700K; other colour temperatures on request
CRI	Ra >= 70
Optics	LEDiL C13499_STRADA-IP-2X2-DWC or similar, according to the application
Optical material	PMMA, RoHS compliant
LED lifetime	L90B20 > 353,000 h
Temperatures	Operating -40°C/+55°C; ambient -25°C/+50°C

MECHANICAL FEATURES

Body and cover	Die-cast aluminium coated with epoxy powder paint
Screen	4 mm thick transparent glass
Paint finish	Grey; other colours on request
Heat sink	Internal V-shaped aluminium fins
Wiring	Double silicone cable and PG7 cable gland
Fixing	Adjustable bracket system

ELECTRICAL FEATURES

Voltage	220/240 V - 50/60 Hz
Power supply	Electronic dimmable Class II, 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; Smart-ready configuration
Driver lifetime	> 120,000 h @ case temperature 70°C

The company reserves the right to update components and product features without prior notice.

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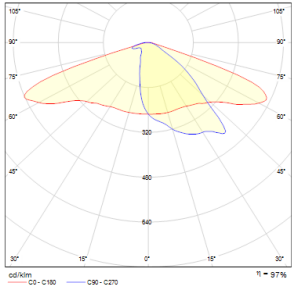
Dimensions and Optics

DIMENSIONS

Model	L [mm]	W [mm]	H [mm]	Mounting	Max. weight
VEGA B5	240	300	78	Bracket	6 kg

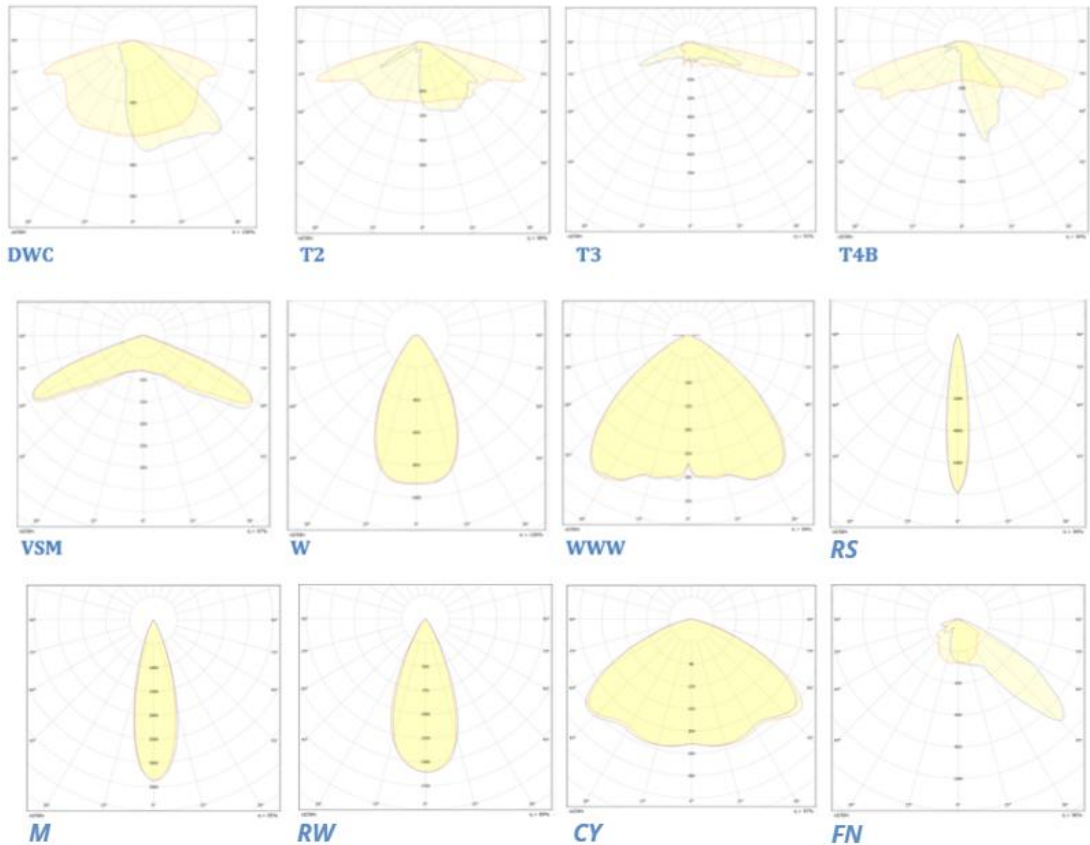
AVAILABLE OPTICS

STD photometric curve. Other photometries available on request according to the application.



OPTICAL UNIT		PREARRANGEMENTS	
Standard optics	C13499_STRADA-IP-2X2-DWC or similar according to application / lighting calculation	Installation	Adjustable fixing bracket
Applications	Outdoor, sports and industrial lighting	Wiring	1.5 mm² silicone cable and PG7 cable gland
Material	RoHS compliant PMMA	Driver	Dimmable driver in plastic/aluminium housing
Lens format	Square 50 x 50 mm	Control	1-10V, PWM, resistor, DALI or timer on request
Intensity class	According to photometric configuration	Smart	Compartment prepared for hardware components dedicated to Smart solutions
Variants	Alternative photometries available on request		

Ex. Other Optics



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LUMINOUS PERFORMANCE

Values are to be considered with a tolerance of +/- 5%. Source flux values vary according to CCT and drive current. Indicative efficiency is calculated on the nominal source flux and net power.

Version	Gross P.	Net P.	LED	Source flux
VEGA_B5 60/80W - 24 LED	60...80 W	57...76 W	24	>10500...12700 lm @4000K/5700K >10080...12192 lm @3000K >8820...10668 lm @2200K
VEGA_B5 60/80W - 36 LED	60...80 W	57...76 W	36	>11500...13540 lm @4000K/5700K >11040...12998 lm @3000K >9660...11374 lm @2200K
VEGA_B5 120W - 36 LED	120 W	114.5 W	36	>20421 lm @4000K/5700K >19604 lm @3000K >17154 lm @2200K

PROPOSED PRODUCT CODE STRUCTURE

The following structure is an ordered proposal for configuring the VEGA B5 family consistently with the available technical variants.

Pos.	Field	Values	Description
1	Family	VEGA_B5	Floodlight
2	Power	060, 080, 120	Nominal gross power
3	No. of LEDs	24 /36	Number of installed LEDs
4	CCT	22K / 30K / 40K / 57K	2200 K / 3000 K / 4000 K / 5700 K
5	CRI	70 / 80	Standard or optional CRI
6	Optics	ST2 / ALT	STRADA-IP-2X2-DWC or alternative photometry
7	Control	FIX / 1-10 / PWM / DALI / TIM / SMART	Fixed, dimming or smart control

CONFIGURATION EXAMPLE

EXAMPLE	VEGA-B5-080-24-40K-70-DWC-DALI-BRACKET
Description	VEGA B5 80 W, 24 LED, 4000 K, CRI 70, STRADA-IP-2X2-DWC optics, DALI power supply, bracket installation

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	Compartment able to house hardware parts for Smart and remote-control solutions.
Driver	Configurations available on request: 1-10V, PWM, resistor, DALI or timer.