

VELAN-03 series industrial LED lighting fixtures



Application

VELAN-03 series industrial LED lighting fixtures are designed for general illumination of production facilities, warehouses, squares, streets and may also be used as decorative lighting of buildings and architectural premises.

Special features

- Application of LED light sources allows reducing servicing costs. The LED life is about 100 000 hours.
- LED light source with the same lighting intensity consumes up to ten times less energy than an incandescent lamp. The luminous flux directivity allows to improve the lighting fixture efficiency up to 100%, influencing on energy saving.
- Corrosion-resistant materials with a special coating guarantee long life.
- Adjustable clamp allows mounting the lighting fixture on walls and ceilings. Possible to use as street light pipe mounted on lamp post ("COBRA" version).
- The lighting fixture is resistant to mechanical and vibration action, it is produced as a vandal-proof version.
- Absence of mercury in the lighting fixture elements makes disposal simple and environmentally safe.
- The lighting fixture instant switching and attainment of projected power, high lighting intensity values, closeness of the lighting to the natural light, luminous intensity without changes in any supply voltage range, high color rendering index, providing better visibility and contrast, absence of stroboscopic effect (flicker) make the lighting fixtures irreplaceable in industry.

Design

The lighting fixture consists of a square aluminum housing. Protective rear projection element (heat-treated borosilicate glass) is thermal resistant, extra strong, has high rear projection property. Inside the lighting fixture there is a reflector, LED light sources. The lighting fixture is mounted with the help of supports. Power supply unit is in the external case with hinged cover.

Light sources

Hyperluminous light-emitting diodes with light efficiency of 120 Lm/W.

Technical Specifications

Supply voltage:	
- standard version:	220V AC ±10%
- special version:	From 12 to 220 AC\DC ±10%
Lighting fixture power	20, 40, 60, 70, 80, 100, 110, 120, 140, 160, 170, 180, 200.
Luminescence temperature	4500-6500 K
Color index Ra	>80
Luminescence efficiency	>105 lm/W
Feed cable diameter	10-14 mm
Ingress Protection:	IP65
Ambient temperature	from -60°C to + 55°C
Power factor	cos φ > 0,95
Overvoltage protection	Optional, possible to install over 600V over voltage protection.

Scope of delivery

The lighting fixture is supplied complete with the LED light source and a cable gland for the non-armored cable:

- two cable glands for standard version of lighting fixture;
- one cable gland for "Cobra" version.

Catalog Number Logic

VELAN-03 - LEDX1 X2

VELAN-03 - industrial LED lighting fixture

LED - type of used lamp: hyperluminous LEDs

X1 - total LEDs power (W): 20, 40, 60, 70, 80, 100, 110, 120, 140, 160, 170, 180, 200.

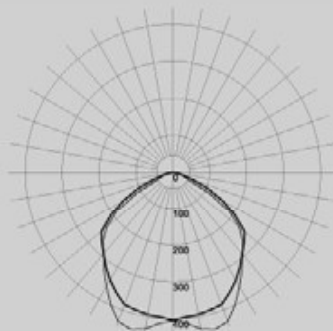
X2 - in case of a version for street lighting with pipe mounting, specify additionally "COBRA" index.

When ordering lighting fixture with over 600V overvoltage protection it is necessary to indicate: (over 600V overvoltage protection.)

An example of designation for a lighting fixture with total LEDs power 100W: VELAN-03-LED100

Microphotometer curve

VELAN-03

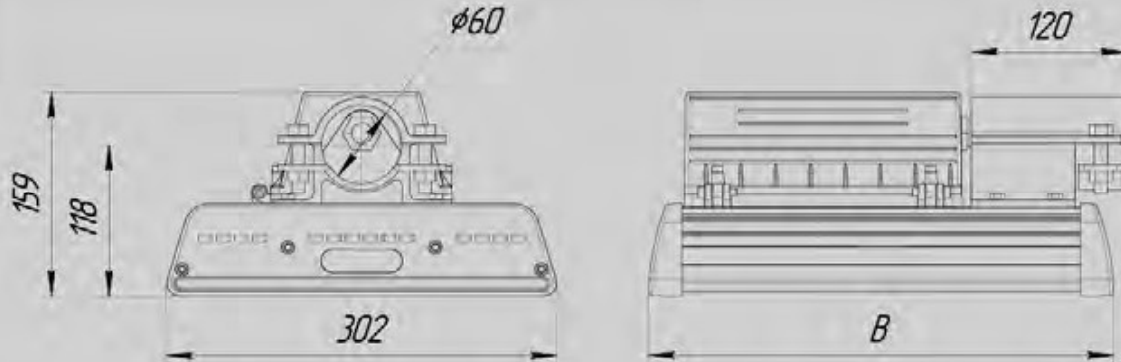


Power, W	20	40	60	70	80	100	110	120	140	160	170	180	200
Luminous flux, lm	1732	3360	5200	5880	7419	9705	9920	10080	11760	13440	14240	15120	16800

VELAN

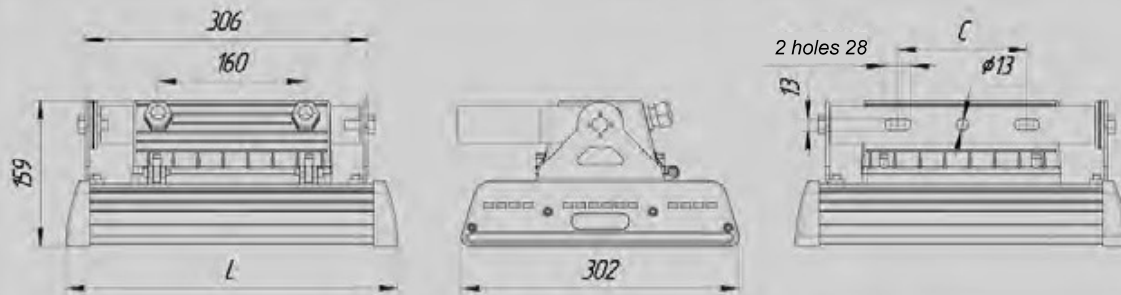
Overall, mounting and installation dimensions of VELAN-03

VELAN-03 Cobra

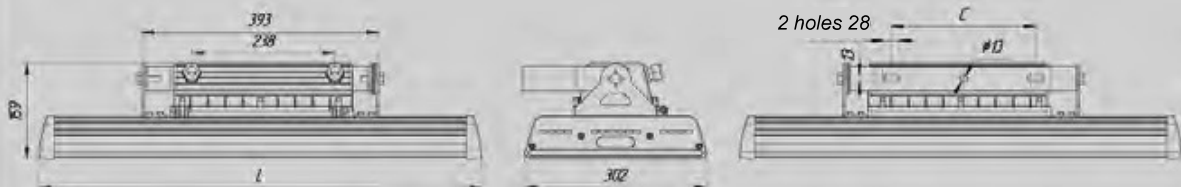


Power, W	20	40	60	70	80	100	110	120	140	160	170	180	200
V, mm.	360	360	360	360	360	508	508	508	508	622	622	622	736

VELAN-03 - power of 20, 40, 60, 70, 80 W



VELAN-03 - power of 100, 110, 120, 140, 160, 180, 200 W



Power, W	20	40	60	70	80	100	110	120	140	160	170	180	200
L, mm	360	360	360	360	360	508	508	508	508	622	622	622	736
C, mm	140	140	140	140	140	240	240	240	240	240	240	240	240
Weight, kg	3,8	6,3	10,2	11	14	18,1	18,2	18,6	19,5	20,4	20,7	21,3	22

