

## VELAN-05 series industrial LED lighting fixtures

**Application**

VELAN-05 series industrial LED lighting fixtures designed for general illumination of production facilities, warehouses, squares, streets.

**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.
- Completely new LED matrix cooling system with heat pipes ensure the efficient heat dissipation.
- Adjustable support version allows the lighting fixture mounting on walls, ceilings and floors at different angles.
- 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, lower dazzling effect, 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.

VELAN

### Design

The lighting fixture consists of an aluminum housing, painted with black acrylic enamel resistant to mechanical action. Protective rear projection element (hardened glass) is extra strong, has high light transmission property. The LED light source is dust and moisture protected by means of a silicon sealing, keeping its elasticity for a long period of time. Silicon is resistant to high and low temperature (up to - 70°C). Inside the lighting fixture there is a grooved reflector and LEDs. Reflector has two configuration according to customer's choice: a dome (KO) and beam (UO). The power supply unit and terminal block are outside. Lighting fixture is mounted by hanging on the hook or by using clamps with adjustable inclination (13 positions).

### Light sources

Powerful light-emitting diodes

### Technical Specifications

Supply voltage:	
- standard version	220V AC ±10%
- special version	from 12 to 220 AC/DC ±10%
Lighting fixture power	200, 300, 400, 500 W
Luminescence temperature	4500°K - 6000°K
Color index Ra	>85 Ra
Luminescence efficiency	>90 lm/W
Feed cable diameter	10mm
Ingress Protection:	IP65
Ambient temperature	from -60°C to + 55°C
Power factor	>0,9
Efficiency factor	>90%
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 pole clamp.

### Catalog Number Logic

#### VELAN-05 - LEDX1 - X2 - X3

VELAN-05 - industrial LED lighting fixture

LED - type of used light source: LEDs

X1 - total LEDs power (W): **200, 300, 400, 500**

X2 - reflector type:

**KO** - dome reflector;

**UO** - beam reflector.

X3 - mounting type:

**K** - hook mounting; **S** - clamp mounting

An example of designation for a lighting fixture, power 400W, with dome reflector, clamp mounting:

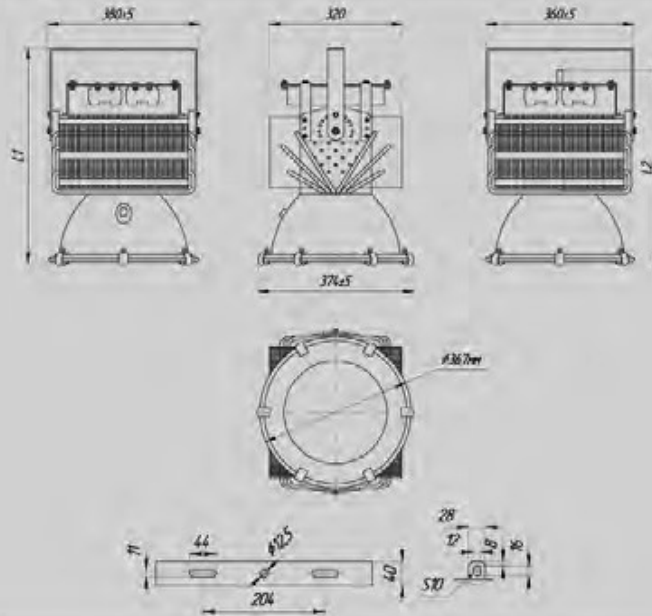
Lighting fixture VELAN-05-LED400-KO-S



Microphotometer curve			
VELAN05-200W		VELAN05-300W	
VELAN-05-LED200-KO	VELAN-05-LED200-UO	VELAN-05-LED300-KO	VELAN-05-LED300-UO
VELAN05-400W		VELAN05-500W	
VELAN-05-LED400-KO	VELAN-05-LED400-UO	VELAN-05-LED500-KO	VELAN-05-LED500-UO
Lighting fixture name	Luminous flux (Lm)	Suspension lamp height at which the maximum illumination surface is 100 lx.	
VELAN 05-LED200-KO	20155	13,5 m	
VELAN 05-LED 200-UO	19879	20 m	
VELAN 05-LED300-KO	28804	16 m	
VELAN 05-LED300-UO	27219	22 m	
VELAN 05-LED400-KO	39597	18,5 m	
VELAN 05-LED400-UO	37418	25 m	
VELAN 05-LED500-KO	47100	20 m	
VELAN 05-LED500-UO	45160	29 m	



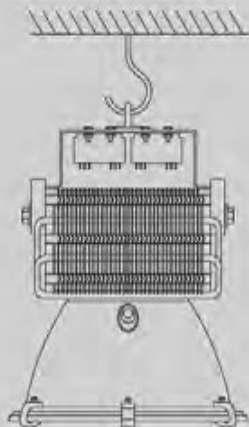
### Overall dimensions



Lighting fixture name	L1 (mm)	L2(mm)	Weight (kg)
VELAN 05-LED200-KO	467	410	10
VELAN 05-LED200-UO	467	410	10
VELAN 05-LED300-KO	459	410	11
VELAN 05-LED300-UO	459	410	11
VELAN 05-LED400-KO	497	448	11
VELAN 05-LED400-UO	497	448	11
VELAN 05-LED500-KO	497	448	13
VELAN 05-LED500-UO	497	448	13

### Mounting options

#### Hook mounting



#### Clamp mounting

