

Industrial high bay and large areas projector.

POWER-FLEX LED

POWER-FLEX-01 72 LED, POWER-FLEX-02 48 LED POWER-FLEX-03 24 LED, POWER-FLEX-03 12 LED



About the product

The product POWER-FLEX LED is designed for general indoor and outdoor lighting for large area with high heights (10-14m) and very high heights (20-30m) Through its construction the product allows the orientation of the optical modules with $\pm 20^{\circ}$ that gives flexibility for the use both for achieving a focused lighting for working areas, or for obtaining large distributions for logistic areas with racks..



EN 60598	RoHS	IP66	IK08		-40°C÷ +50°C	39÷236W LED
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Application

Indoor and outdoor general lighting for: rooms or areas with high height (10-14m/ till 25-30m), industrial plants, warehouses, sport areas, commercial spaces, petrol stations, tunnels etc.

Light source

• Power LEDs, white, with the colour temperature cool-white 5700K, CRl≥70, with a long lifetime at Ta=25°C:

	B10		B50					
L90	L80	L70	L90	L80	L70			
115,200 hours	>181,000 hours	>181,000 hours	116,520 hours	>181,000 hours	>181,000 hours			

- On request the product could be equipped with LEDs with colour temperature neutral-white 4000K, CRI ≥70/80.
- The LED system included in the product could replace or is equivalent with projectors with:
 - POWER-FLEX 72 LED: high pressure mercury lamps HME 400W, high pressure metal halide lamps HIE 250W, HIT 250W, high pressure sodium lamps HST 250W, HSE 250W
 - POWER-FLEX 48LED: high pressure mercury lamps HME 250W, high pressure metal halide lamps HIT 150W, high pressure sodium lamps HST 150W, HSE 150W
 - POWER-FLEX 24 LED: high pressure mercury lamps HME 250W, high pressure metal halide lamps HIT 100W, high pressure sodium lamps HST 100W
 - POWER-FLEX 12 LED: high pressure mercury lamps HME 125W, high pressure metal halide lamps HIT 50W,70W, high pressure sodium lamps HSE 70W, HST 70W

Advantages

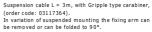
The use of LEDs ensures both a long lifetime of and reduced power consumption. Easy to install and easy to maintain. Environment friendly. There are not necessary interventions for lamp replacements during exploitation.

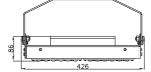


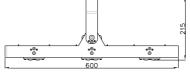
POWER-FLEX-01 72LED

SUSPENDED MOUNTING



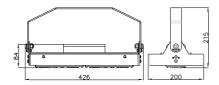


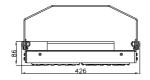


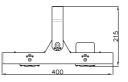


POWER-FLEX-03 24LED/12LED

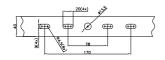
POWER-FLEX-02 48LED







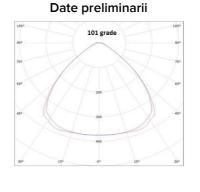
POWER-FLEX LED ON SURFACE MOUNTING



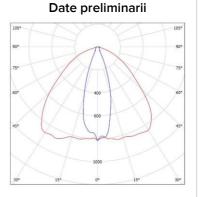
Product type	L [mm]	l [mm]	h [mm]	h1 [mm]	m [mm]	m1 [mm]
POWER-FLEX-01 72 LED ON SURFACE OR SUSPENDED MOUNTING	600	426	86	215	2×M8/1×M12 78, 170	Ø13.5
POWER-FLEX-02 48 LED ON SURFACE OR SUSPENDED MOUNTING	400	426	86	215	2×M8/1×M12 78, 170	Ø13.5
POWER-FLEX-03 24 LED/12LED ON SURFACE OR SUSPENDED MOUNTING	200	426	84	215	2xM8/1xM12 78, 170	Ø13.5

POWER-FLEX LED 60°

POWER-FLEX LED 101°



POWER-FLEX LED 36°x101°



Photometric data POWER-FLEX 72LED 60°

L.O.R. ≥ 94%

Light distribution diagram [Cd/1000lm]

Preliminary photometric data POWER-FLEX LED 101°

L.O.R ≥ 91%

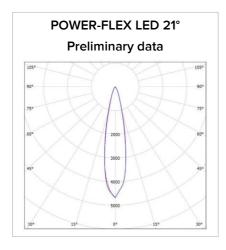
Light distribution diagram [Cd/1000lm]

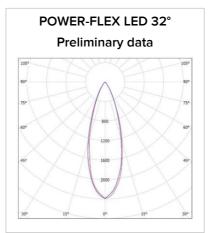
Preliminary photometric data POWER-FLEX LED 36°x101° (between racks distribution type)

L.O.R ≥ 95%

Light distribution diagram [Cd/1000lm]







Preliminary photometric data POWER-FLEX LED21° L.O.R. \geq 92%

Light distribution diagram [Cd/1000lm]

Preliminary photometric data POWER-FLEX LED 32° $\text{L.O.R.} \geq 95\%$

Light distribution diagram [Cd/1000lm]

Description

It is a modern luminaire with LED modules.

- The projector has a simple construction, it is robust, and easy to install and maintain.
- Aluminium profile body.
- Metallic frame, made of steel sheet, in welded construction, painted with epoxy-polyestheric powder. Mounting frame with index step 10°.
- Optical system made of sealed LED modules, with index 10°, 20° and with specific light distribution: 60° (wide), 101° (extra-wide), 36°x101° (between racks), projector type 21°, 31°.
- The product has a thermal management system made of a passive aluminium profile cooler to ensure the long lifetime.
- Fast connectors IP68.
- Gear (electronic driver) included in the product and manufactured according to the specific standards, mounted on the body or on the metallic frame, sealed with the protection degree IP67, with active PFC function. Driver protection for conditions of: Output over voltage, Short circuit, Over Temperature).
- Dimmable driver protocol 1-10V for the variants DIM 1-10V.
- Surge Protection: 4kV line-line, 6kV line-earth
- Colour: grey.



Mounting

- On surface with fixed frame and screws 2xM8, 1xM12. The mounting frame is included in the product.
- On request: Suspended with Gripple steel cable.

Variants on request

- Suspended with Gripple steel cable. Code 03117364.
- Projector type mounting on pole/pipe Ø60÷Ø76mm with fixing support. Code 03113844
- With dimmable driver DALI.
- With PIR sensor (for the variant equipped with DALI driver)
- With movement sensor (for the variant equipped with DALI driver)
- With kit DALI PROXIMITY SENSOR Compact control module with ambient light sensor and motion sensor for 10 products. The product needs separate wiring. The sensor is mounted outside the product. Mounting height max.16m. (for the variant equipped with DALI driver)

Technical features

- Rated voltage: 230V/50Hz.
- Ambient temperature t_a=25°C.
- Surrounding temperature range: -40°C ÷ + 50°C.
- Relative humidity: 80% at the temperature of +20°C.
- Jolt resistance: 1000 ±10 jolts, acceleration of 10g, duration of impulse: 16ms, according to SR EN 60068-2-29.
- Glow wire test: 650°.
- The luminaire is manufactured according to the standards: SR EN 60598-1, SR EN 60598-2-1, SR EN 60598-2-5. SR EN 62031.

Compliance with the European Directives

- Low Voltage Directive
- Electromagnetic Compatibility Directive.
- RoHS Directive. WEEE Directive.



The product could be realised in more variants functions of the colour temperature of the LEDs and light distribution type

distribution type.						01				
Product type	Product code	Rated voltage [V]	Active power [W]		Protection l degree	Class of protection against electric shock		Weight [Kg]	*Total initial net flux [lm]	Total luminous efficiency [lm/W]
Dimmable driver protocole 1-10V										
POWER-FLEX-01 72 LED/266 757 60° DIM 1-10V indoor/outdoor	35317091	230	233.3	≥0.96	IP66	I	IK08	11.6	35411	152
POWER-FLEX-01 72 LED/266 840 60° DIM 1-10V indoor/outdoor	35317106	230	233.3	≥0.96	IP66	I	IK08	11.6	30184	129
POWER-FLEX-01 72 LED/200 757 60° DIM 1-10V indoor/outdoor	35317063	230	175	≥0.96	IP66	I	IK08	11.4	27336	156
POWER-FLEX-01 72 LED/200 840 60° DIM 1- 10V indoor/outdoor	35317105	230	175	≥0.96	IP66	I	IK08	11.4	24212	138
POWER-FLEX-02 48 LED/200 757 60° DIM 1- 10V indoor	35317088	230	118.6	≥0.96	IP66	I	IK08	8.8	18668	157
POWER-FLEX-02 48 LED/240 840 60° DIM 1- 10V interior	35317089	230	143.3	≥0.96	IP66	I	IK08	8.8	19807	138
POWER-FLEX-03 24 LED/200 757 60° DIM 1-10V indoor/outdoor	, 35317084	230	59.3	≥0.96	IP66	I	IK08	5.2	9284	157
POWER-FLEX-03 24 LED/200 840 60° DIM 1- 10V indoor/outdoor	35317085	230	61.4	≥0.96	IP66	I	IK08	5.2	8240	134
POWER-FLEX-03 24 LED/280 757 60° DIM 1-10V indoor/outdoor	, 35317086	230	83	≥0.96	IP66	I	IK08	5.3	12157	146
POWER-FLEX-03 24 LED/320 840 60° DIM 1- 10V indoor/outdoor	35317104	230	98.5	≥0.96	IP66	I	IK08	5.3	11977	122
Standard driver										
POWER-FLEX-01 72 LED/1600 757 60° indoor/outdoor	35317102	230	236	≥0.95	IP66	I	IK08	11.4	36082	153
POWER-FLEX-01 72 LED/1600 840 60° indoor/outdoor	35317109	230	236	≥0.95	IP66	I	IK08	11.4	31131	132
POWER-FLEX-01 72 LED/1200 757 60° indoor/outdoor	35317100	230	174.6	≥0.95	IP66	I	IK08	11.4	26547	152
POWER-FLEX-01 72 LED/1200 840 60° indoor/outdoor	35317108	230	174.6	≥0.95	IP66	I	IK08	11.4	24185	139
POWER-FLEX-02 48 LED/800 757 60° indoor/outdoor	35317098	230	116.6	≥0.95	IP66	I	IK08	8.8	18130	155
POWER-FLEX-02 48 LED/960 840 60° indoor/outdoor	35317099	230	148.2	≥0.95	IP66	I	IK08	8.8	20180	136
POWER-FLEX-03 24 LED/560 757 60° indoor/outdoor	35317096	230	85	≥0.95	IP66	I	IK08	5.3	12000	141
POWER-FLEX-03 24 LED/640 840 60° indoor/outdoor	35317107	230	96	≥0.95	IP66	ı	IK08	5.3	12137	126
POWER-FLEX-03 24 LED/400 757 60° indoor/outdoor	35317094	230	55.9	≥0.95	IP66	ı	IK08	5.3	8555	153



Product type	Product code	Rated voltage [V]	Active power [W]		Protection degree	Class of protection against electric shock	IK	Weight [Kg]	*Total initial net flux [lm]	Total luminous efficiency [lm/W]
POWER-FLEX-03 24 LED/400 840 60° indoor/outdoor	35317095	230	55.9	≥0.95	IP66	1	IK08	5.3	7987	143
POWER-FLEX-03 12 LED/250 840 60° indoor/outdoor	35317093	230	39.3	≥0.96	IP66	1	IK08	5.3	5591	142
Accesories										
Gripple steel cable for suspended mounting	03117364							0.3		
Fixing support on pipe Ø60÷Ø76mm	03113844							0.5		

^{*} At t_a = =25°C, ** constant value driver, without dimming, 570 = 5700K 70CRI, 840 = 4000K 80CRI

DIM 1-10V = Dimmable drivers protocol 1-10V

indoor = could be used only in indoor

Light distribution: 60° (wide), 101° (extra-wide), 36°x101° (between racks), projector 21°, 31°.

Data subject to change

The tolerance of the initial flux and active power is $\pm 10\%$ from the specified value. These values were measured at the ambient temperature of 25°C, unless is not mentioned another temperature

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