

Indoor luminaire. Water-proof and dust-proof luminaire.

# LUMOS

## FIRADS-17 LED


FIRADS-17-3Rx4Bx33 LED, FIRADS-17-2Rx4Bx33 LED LUMOS



### About the product

Luminaire for indoor lighting, in spaces that need a high degree of protection against dust and moisture: industrial halls, commercial spaces, warehouses.



EN 60598	RoHS	IP65		-5°C ÷ +45°C	78W ÷ 162W LED
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## Application

General indoor lighting in spaces that need a high degree of protection against dust and moisture. Lighting for industrial areas, commercial spaces, ample spaces, warehouses. On request: Emergency lighting for evacuation with one LED module.

## Light source

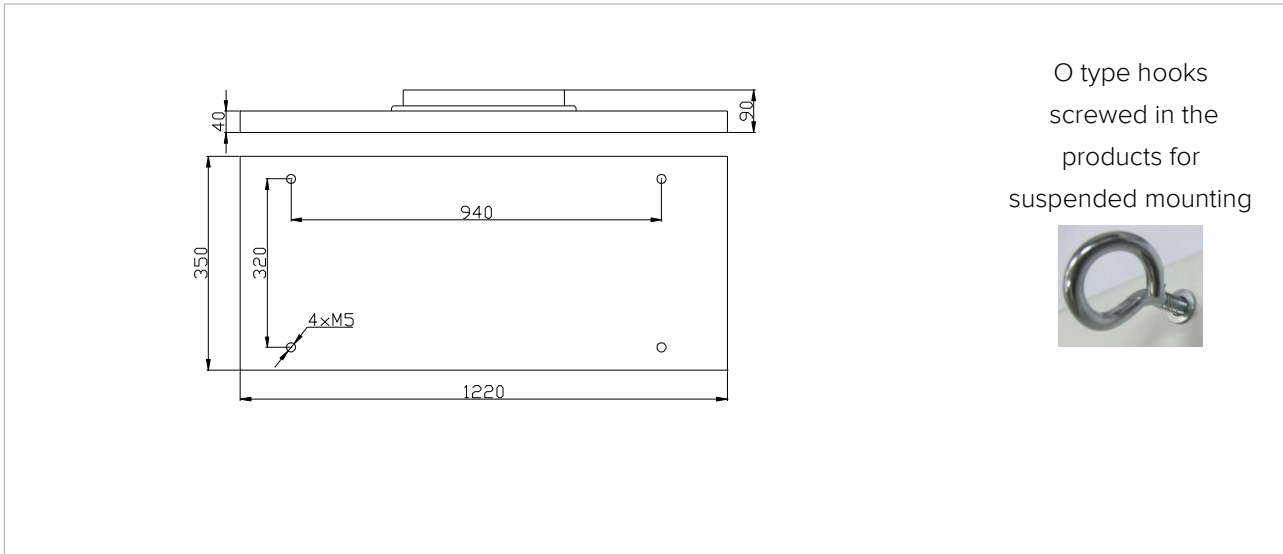
- Power LEDs, colour temperature or neutral-white 4000K, CRI: min.80 or cool-white daylight 5000K, CRI: 80, with long lifetime, at  $T_a=25^{\circ}\text{C}$ :

B10				B50			
L50	L70	L80	L90	L50	L70	L80	L90
>60.000 ore	>60.000 ore	>60.000 ore	>60.000 ore	>60.000 ore	>60.000 ore	>60.000 ore	>60.000 ore

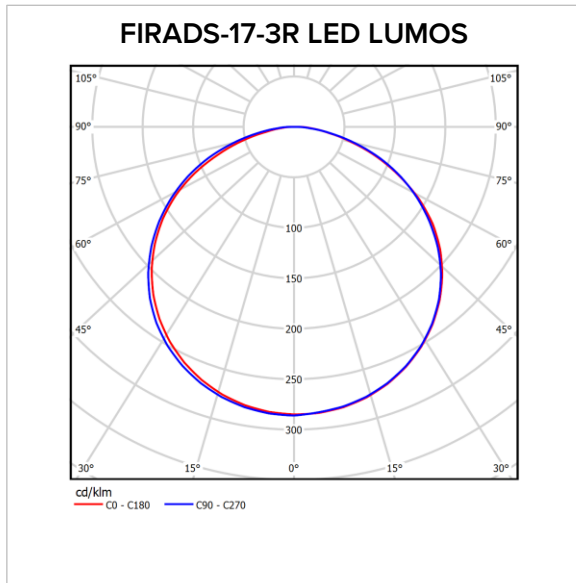
- On request the product could be equipped with LEDs with other colour temperature.
- The LED system included in the product could replace or is equivalent with fluorescent lamps T8  $\varnothing 26\text{mm}$ , T5  $\varnothing 16\text{mm}$ .

## Advantages

Reduced maintenance costs. There are not necessary interventions for lamp replacements during exploitation.

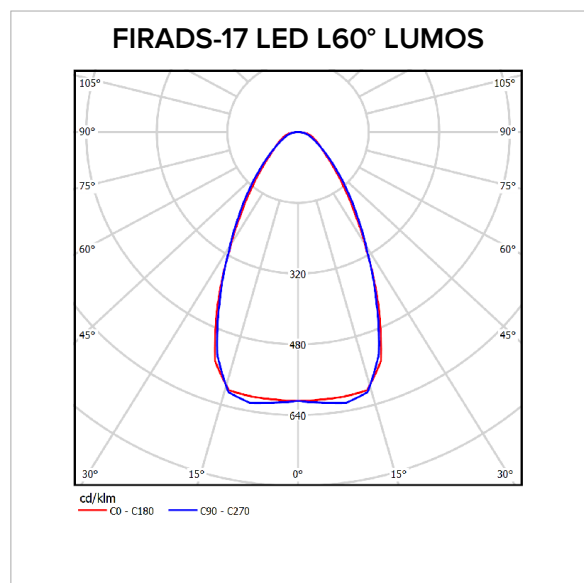


Product type	L [mm]	l [mm]	H [mm]	H1 [mm]	m [mm]	n [mm]
FIRADS-17 LED LUMOS	1220	350	90	40	940	320



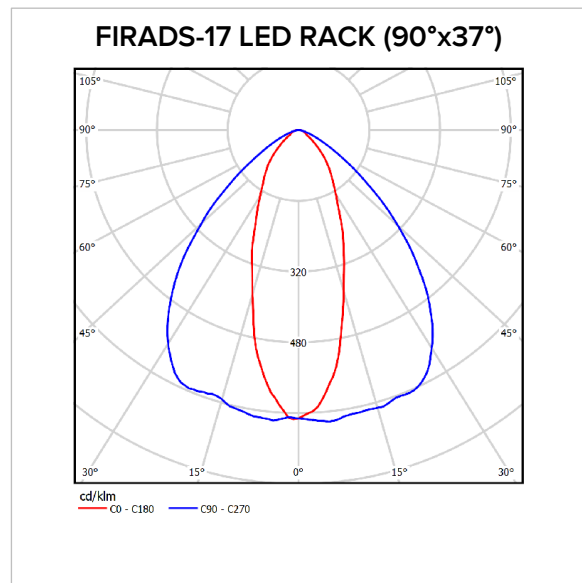
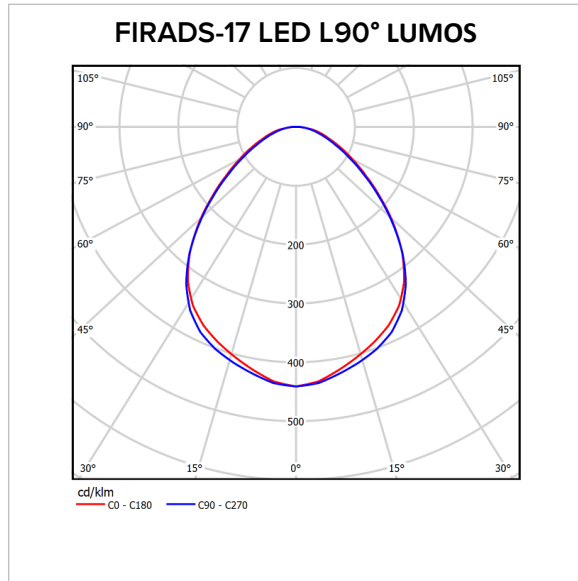
**Photometric data FIRADS-17-3R**

Light distribution diagram [Cd/1000lm]



**Photometric data FIRADS-17 L60°**

Light distribution diagram [Cd/1000lm]



**Photometric data FIRADS-17**

Light distribution diagram

**Photometric data FIRADS-17 LED RACK (90°x37°)**

Light distribution diagram [Cd/1000lm]

**Description**

- White painted with powder steel sheet body on which is mounted the electric gear.
- Optical unit made of LED modules.
- Polycarbonate diffuser.
- Gear (LED driver) included in the product and manufactured according to the specific standards.
- Dimmable LED driver DALI protocol for the variants FIRADS-17 DALI.
- Colour: white.

**Mounting**

- Suspended with O type hooks (4 pcs included in the product) that must be screwed in the orifices made on the luminaire's housing – see detail near the product's drawing, or visible mounting on surface with mounting straps.

**Variants on request**

- On request the product could be equipped with LEDs with other colour temperature.
- Glass diffuser.
- Suspension cable P03118376 ( suspension piece Y 3M)

- Function of the optical system there could be obtained narrow or wide luminous flux distributions:
  - 30°, 60°, 90°, 110°, 90°x37°, asymmetrical
- On request the product could be equipped with:
  - Emergency lighting kit for 3 hours on a separate box.
- The variant with emergency kit (EM - emergency) will be available after the finalization of the laboratory tests.
- The variant with emergency lighting (3H - emergency):
  - The inverter ensures both the accumulators charging and the switch to the emergency functioning mode of the luminaire
  - Accumulators: Ni-Cd that ensure autonomy in emergency mode of 1 hour or 3 hours.
  - The charging time of the accumulators: 20h
  - On the emergency mode the LEDs are powered by accumulators and ensure a reduced light level required for room evacuation.
- Note: The options could be combined function of the client request.

## Technical features

- Rated voltage: 230V/50Hz
- Surrounding temperature range: -5°C...+ 45°C
- Relative humidity: till 80% at the temperature of + 20°C
- Mechanical impact resistance: IK06.
- Jolt resistance according to SR EN 60068-2-29: 1000 ±10 jolts, acceleration of 10g, duration of impulse: 16ms
- The luminaire is manufactured according to the requirements of the standards SR EN 60598-1, SR EN 60598-2-1.

## 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 power, flux, driver, with/without optical system.

Product type	Product code	Rated voltage [V]	Active power [W]	Power factor	Protection degree	Class of protection against electric shock	Weight [Kg]	Total initial LED/luminaire flux [lm]	Luminous efficiency LED/luminaire [lm/W]
<b>23KLM/22KLM</b>									
FIRADS-17 3RX4BX33LED 4K 23KLM LUMOS	21456034	230	162	≥0.95	IP65	I	13.0	26300/ 23670	162/ 146
FIRADS-17 3RX4BX33LED 4K 22KLM L90° LUMOS	21456063	230	162	≥0.95	IP65	I	13.0	26300/ 22616	162/ 140
FIRADS-17 3RX4BX33LED 4K 22KLM L60° LUMOS	21456035	230	162	≥0.95	IP65	I	13.0	26300/ 22616	162/ 140
FIRADS-17 3RX4BX33LED 4K 22KLM RAFT LUMOS	21456064	230	162	≥0.95	IP65	I	13.0	26300/ 22616	162/ 140
FIRADS-17 3RX4BX33LED 4K 23KLM 3H LUMOS	21456039	230	162	≥0.95	IP65	I	13.0	26300/ 23670	162/ 146
FIRADS-17 3RX4BX33LED 4K 22KLM L90° 3H LUMOS	21456065	230	162	≥0.95	IP65	I	13.0	26300/ 22616	162/ 140
FIRADS-17 3RX4BX33LED 4K 22KLM L60° 3H LUMOS	21456037	230	162	≥0.95	IP65	I	13.5	26300/ 22616	162/ 140
FIRADS-17 3RX4BX33LED 4K 22KLM RAFT 3H LUMOS	21456066	230	162	≥0.95	IP65	I	13.5	26300/ 22616	162/ 140
<b>20KLM</b>									
FIRADS-17 3RX4BX33LED 4K 20KLM LUMOS	21456015	230	135	≥0.95	IP65	I	13.5	23200/ 20500	172 / 152
<b>14KLM/13KLM</b>									
FIRADS-17-2Rx4Bx33 LED 4K 14KLM LUMOS	21456032	230	108	≥0.95	IP65	I	13.0	16100/ 14595	149 / 135
FIRADS-17-2Rx4Bx33 LED 5K 14KLM LUMOS	21456033	230	108	≥0.95	IP65	I	13.0	16100/ 14595	149 / 135
FIRADS-17 2RX4BX33LED 4K 13KLM L90° LUMOS	21456054	230	108	≥0.95	IP65	I	13.0	16100/ 13002	149 / 120
FIRADS-17 2RX4BX33LED 4K 13KLM L60° LUMOS	21456055	230	108	≥0.95	IP65	I	13.0	16100/ 13002	149 / 120
FIRADS-17 2RX4BX33LED 4K 13KLM RAFT LUMOS	21456056	230	108	≥0.95	IP65	I	13.0	16100/ 13002	149 / 120
FIRADS-17 2RX4BX33LED 5K 14KLM 3H LUMOS	21456041	230	105	≥0.95	IP65	I	13.0	16100/ 14600	153 / 139
FIRADS-17 2RX4BX33LED 4K 13KLM L90° 3H LUMOS	21456057	230	105	≥0.95	IP65	I	13.0	16100/ 13002	153 / 124
FIRADS-17 2RX4BX33LED 4K 13KLM L60° 3H LUMOS	21456058	230	105	≥0.95	IP65	I	13.0	16100/ 13002	153 / 124
FIRADS-17 2RX4BX33LED 4K 13KLM RAFT 3H LUMOS	21456059	230	105	≥0.95	IP65	I	13.0	16100/ 13002	153 / 124

Product type	Product code	Rated voltage [V]	Active power [W]	Power factor	Protection degree	Class of protection against electric shock	Weight [Kg]	Total initial LED/luminaire flux [lm]	Luminous efficiency LED/luminaire [lm/W]
FIRADS-17-2RX4BX33 LED 4K 14KLM DALI LUMOS	21456016	230	108	≥0.95	IP65	I	13.0	16100/ 14595	149 / 135
FIRADS-17 2RX4BX33LED 4K 13KLM L90° DALI LUMOS	21456060	230	108	≥0.95	IP65	I	13.0	16100/ 13002	149 / 135
FIRADS-17 2RX4BX33LED 4K 13KLM L60° DALI LUMOS	21456061	230	108	≥0.95	IP65	I	13.0	16100/ 13002	149 / 120
FIRADS-17 2RX4BX33LED 4K 13KLM RAFT DALI LUMOS	21456062	230	108	≥0.95	IP65	I	13.0	16100/ 13002	149 / 120
FIRADS-17 2RX4BX33LED 5K 14KLM L60° DALI LUMOS	21456043	230	108	≥0.95	IP65	I	13.0	16100/ 13002	149 / 120
11KLM/10KLM									
FIRADS-17 2RX4BX33LED 4K 11KLM LUMOS	21456046	230	78	≥0.95	IP65	I	13.5	12700/ 11513	163/ 148
FIRADS-17 2RX4BX33LED 4K 10KLM L90° LUMOS	21456047	230	78	≥0.95	IP65	I	13.5	12700/ 10256	163/ 131
FIRADS-17 2RX4BX33LED 4K 10KLM L60° LUMOS	21456048	230	78	≥0.95	IP65	I	13.5	12700/ 10256	163/ 131
FIRADS-17 2RX4BX33LED 4K 10KLM RAFT LUMOS	21456049	230	78	≥0.95	IP65	I	13.5	12700/ 10256	163/ 131
FIRADS-17 2RX4BX33LED 4K 11KLM 3H LUMOS	21456050	230	78	≥0.95	IP65	I	13.5	12700/ 11513	163/ 148
FIRADS-17 2RX4BX33LED 4K 10KLM L90° 3H LUMOS	21456051	230	78	≥0.95	IP65	I	13.5	12700/ 10256	163/ 131
FIRADS-17 2RX4BX33LED 4K 10KLM L60° 3H LUMOS	21456052	230	78	≥0.95	IP65	I	13.5	12700/ 10256	163/ 131
FIRADS-17 2RX4BX33LED 4K 10KLM RAFT 3H LUMOS	21456053	230	78	≥0.95	IP65	I	13.5	12700/ 10256	163/ 131

4K=4000K, 5K=5000K, 10KLM...23KLM=10000lm...23000lm, DALI = dimmable driver protocol DALI, L60°/ L90°= light distribution 60°/90°, RACK = light distribution 90°x37° for lighting between racks.

3H = equipped with emergency lighting kit for evacuation for 3 hours.

Function of the optical system there could be obtained narrow or wide luminous distributions:

30°, 60°, 90°, 110°, 90°x37°(between racks), asymmetric

The tolerance of the initial flux and active power is ±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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