

SERIES LED LIGHTING TYPE „ERIDAN S“

Series include following types of products:

Eridan S 40W48-230, Eridan S 70W56-230, Eridan S 140W112-230;

Name of Producer: “INDUSTRIAL LIGHTING” LTD

Purpose:

The Series LED lighting type ERIDAN S is created as high class lightning designed to satisfy highest requirements for efficiency, durability and quality.

Eridanus S product range includes a variety of luminaries with power up to 140 watts, these lamps can illuminate the premises with a height of 12 meters.

In the production of the product are used only high quality elements of European producers, as follows:



LEDs:

Duris S5 – “Osram GmbH” Germany;

Power supply:

OPTOTRONIC® OTp – “Osram GmbH” Germany;

Diffusor:

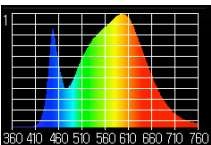
Makrolon - Bayer AG – Germany;

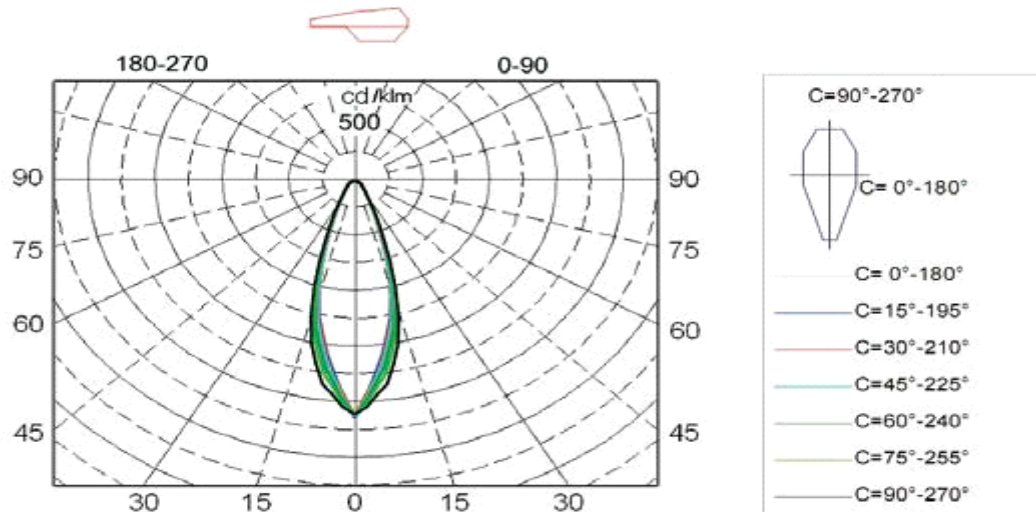
Technical parameters according producers documentation:

LED light for indoor and outdoor use with dimensions:

- 500/70/85mm for 40 W,
- 1000/70/85mm for 70 W,
- 1500/70/85mm for 140 W;

Test results:

Product name Eridan S	40W48-230	70W56-230	140W112-230	 <p>Light specter</p> <p>Pulsation of light = 21.4%</p>
Operating voltage AC [V]	230			
Weight [kg]	1.5	3.0	5.0	
Wattage including ballast [W]	44	76	158	
Cos(φ)	> 0.95			
Color temperature [K]	5200 K			
Color rendering index CRI	>80			
Color coordinates CIE 1931	x=0.3831, y=0.3860			
Color coordinates CIE 1976	u'=0.2232, v'=0.5060			
Luminous flux emitted by a luminaire [lm]	4840	8360	17380	
Light output of the luminaire [lm/W]	110.0	110.0	110.0	



Luminaire light distribution of polar coordinates in the conditional flux 1000lm.

Color temperature of LEDs standard production 4000 K.

According to customers requirements temperature can be produce in the range from 2700K to 6500K.

Index of color rendering:

Color rendering of light sources is indicator of their capability to display realistically the colors of certain object. According to CIE (International Lighting Commission) index vary from 0 to 100, where 0 is worst and 100 is best.

Group	Ra	Significance	Typical Application
1A	90..100	Exact color match	Galleries, medical examination, color processing
1B	80...90	Colors can be properly defined	Houses, hotels, offices, schools
2	60...80	Fair color rendering	Industry, office, schools
3	40...60	Color rendering is not a of big significance	Industry, sport arenas
4	20...40	Color rendering is not important	Street lighting

Standard lighting Eridan S are with index of color rendering CRI min 80.

According to customer specification lamp can be produced with LED index CRI min 90.

Degree of protection IP 64:

The degree of protection of LED lighting bodies, which the corpus provides against penetration of foreign particles, dust, dirt and water

Luminaries Eridan S provide:

Complete protection against contact, protection from infiltration of dust, and splashed water.

Degree of protection IK 08:

One of the key parameter of outdoor mounted luminaries is the high resistance of mechanical interference-defined in two digit code IK.

- From 0-lack of protection
- From 10-protection of interference equivalent of 20J energy

The degree of IK 08 is equivalent on hits with steel hammer with 1.7kg weight, falling on luminary body from 29,5 centimeters height.

High degree of resistance of mechanical interference is highly important in case where luminaries are used on streets, roads, sidewalks, in general when used in areas with concentrated vandalism activities.

Certification:

Luminaries Eridan S has full **CE** certification.

Motion detectors:

All version of Eridan S luminaries are designed to fit smoke detectors, smoke indicators, cameras, PIR sensors, microwave sensors (could be built invisible), audio speakers and etc.

• Description of the electrical connection assembly:

Connection of the product to the electricity network is performed by qualified and pre instructed personal, qualified in the safety procedures. The cable coming out from the lamp has to be connected to the electricity network 230V-50Hz in the following order-brown cable is connected to L(phase), blue cable is connected to N(zero), yellowgreen cable has to be connected to ground.

Description of the mechanical connection:

Installation to be performed only by qualified and pre instructed personnel, trained in safety procedures.

Working conditions, transportation and storage:

Storage to be done in covered facilities with air temperature from -30 °C to +55 °C (up to 24 hours to +70 °C) with humidity 80%(with 86-106 Kpa) without the presence of any harmful agents, causing corrosion of the aluminum body. The lamp to be transport in the original packing provided by the producer.

Working condition of the luminary

- Power supply voltage- 198V to 264V
- Temperature interval -20 °C to +50 °C, with air humidity 70%(86-106Kpa)

Quality control:

The device is controlled from the authorities of quality control and reply to the technical requirements. Replacing of components of the luminary has to be performed only with original parts supplied by the producer. Repair is performed only from authorized representative of the producer.

Warranty conditions:

LED luminaries from the series Eridan S have 60 months warranty from the date of sale. All eventual malfunction during warranty period is 60 months from date of purchase. All eventual malfunction in this period is repaired free of charge in the conditions of:

- All conditions for installation, operation, transport and storage of the device
- There are no signs of attempts of opening the device and/or repair by non-authorized personal of Industrial lighting LTD.

Producer's address:

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