

# PRODUCT CATALOG

INDUSTRIAL LED LIGHTING

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We are team of specialist in the field of design, die casting tooling, casting, electronics, optics and LED, realizing the very best ideas and practices in our fields.

## Our mission

We working for full range of products for industrial illumination. We looking for technical solutions leading to maximal life time of the end products. Uniting in our production functionality and design, with minimal compromise in both directions.

» Design and realization of projects related with complete replacement of existing conventional illumination with LED illumination such fulfills all standards and norms for lighting.

» Uncompromising quality with parameters which comply with actual needs and requirements of our clients.

» Maximal warranty and after warranty service of our products.

» Modesty and professionalism towards all our partners and colleagues.

## What we offer?

Combination of innovation ideas, combined proven technological practices and solutions, as guarantee for development and production of high quality products at global level. Uncompromising regarding quality of material used. LED illumination from last generation with wide specter of use such as: warehouses, industrial buildings, open grounds, gas stations, retail stores, parks, sport grounds and plants, green fields, parking and garages.

» Environmentally friendly products which are 100% recyclable.

» Wide range of products and flexible solutions according to customers' requirements.

» Professional attitude and responsibility towards each engagement.

## SERIES LED LIGHTING TYPE „HYDRA“

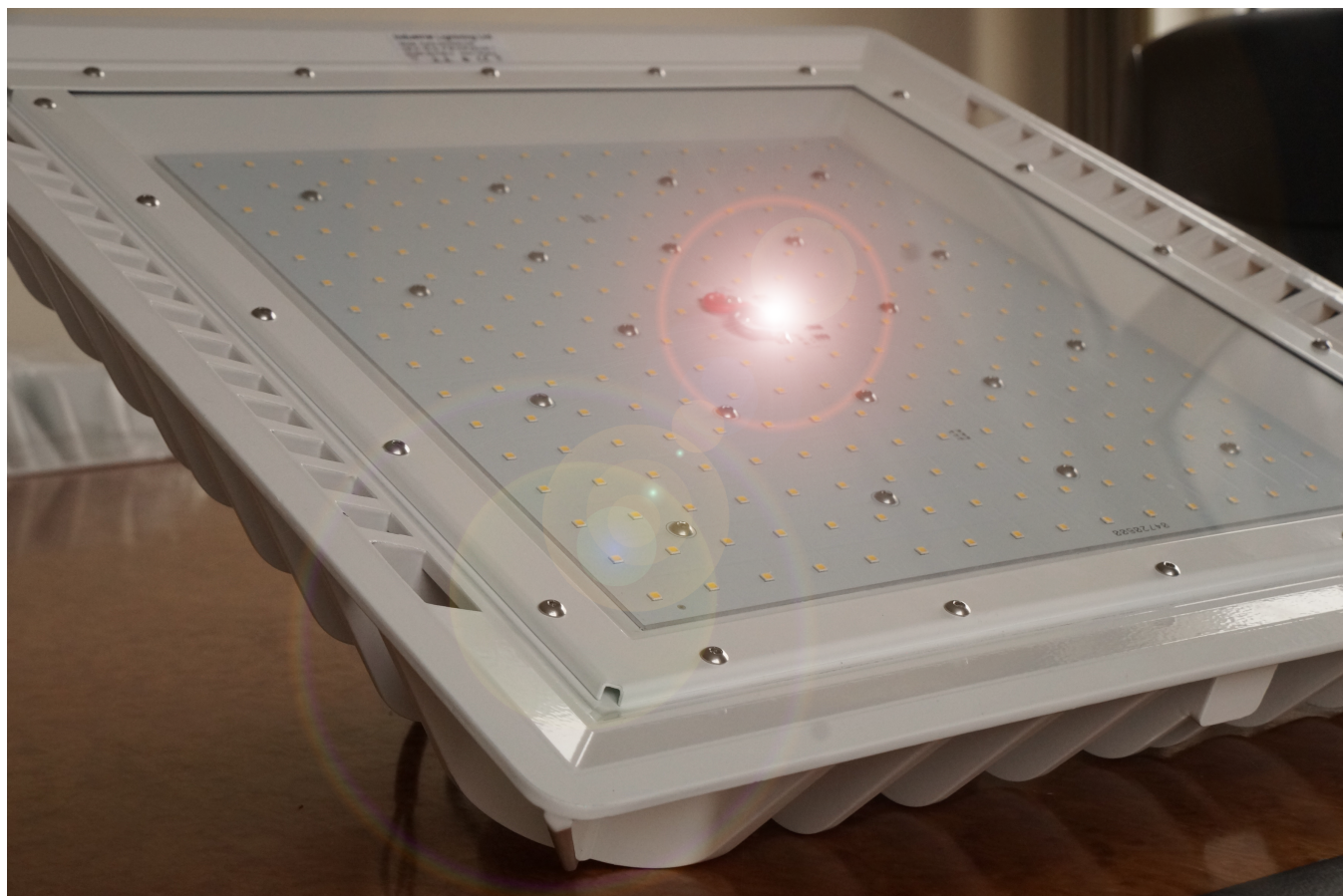
Series include following types of products:

**Hydra 90W242-230, Hydra 150W242-230 и Hydra 240W242-230;**

**Name of Producer:** “INDUSTRIAL LIGHTING” LTD

### **Purpose:**

The Series LED lighting type HYDRA is created as high class lightning designed to satisfy highest requirements for efficiency, durability and quality. In the production of the product are used only high quality elements of European producers, as follows:



**LEDs:** Dyris S5– “Osram GmbH” Germany;

**Power supply:** OPTOTRONIC® LED OT 200/220-240/5A6 P5 – “Osram GmbH” Germany, Mean Well - HBG series Taiwan;

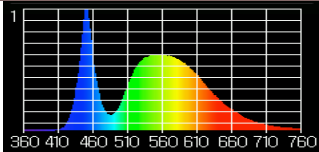
**Diffusor and cover:** Dow Chemical – USA;

**Fasteners:** Only stainless steel according DIN 933;

Technical parameters according producers documentation:

LED light for indoor and outdoor use with dimensions 500/500/160mm. and weight of 14kg.

## Test results:

Operating voltage	<b>AC 230 V</b>	 <p>Light specter ; Pulsation of light = 0.1 %</p>
Operating Current	<b>AC 1.05 A</b>	
Wattage including ballast (watts)	<b>235.4 W</b>	
Power factor	<b>0.97</b>	
color temperature	<b>5511 K</b>	
Color rendering index CRI	<b>72</b>	
Luminous flux emitted by a luminaire	<b>32 702lm</b>	
Light output of the luminaire	<b>138.9 lm /W</b>	
Luminous flux emitted by a luminaire with protective glass and without lenses	<b>34 991 lm</b>	
Operating voltage	<b>AC 230 V</b>	
Wattage including ballast (watts)	<b>148 W</b>	
Power factor	<b>0.97</b>	
color temperature	<b>5511 K</b>	
Color rendering index CRI	<b>72</b>	
Luminous flux emitted by a luminaire	<b>22 323 lm</b>	
Light output of the luminaire	<b>150.8 lm /W</b>	
Operating voltage	<b>AC 230 V</b>	
Wattage including ballast (watts)	<b>90 W</b>	
Power factor	<b>0.97</b>	
color temperature	<b>5511 K</b>	
Color rendering index CRI	<b>72</b>	
Luminous flux emitted by a luminaire	<b>14 402 lm</b>	
Light output of the luminaire	<b>160 lm /W</b>	

**Color temperature of LEDs** standard production 5000 K.

### Index of color rendering:

Standard lighting "Hydra" is with index of color rendering CRI min 80.

Operating temperature of the lamp is from -30 °C to +55 °C

### Degree of protection IP 66:

### Degree of protection IK 08:

### Certification:

Luminaries Hydra has full **CE** certification.

## SERIES LED LIGHTING TYPE „HYDRA OS“

Series include following types of products:

**Hydra OS 200W128-230, Hydra OS 300W128-230 and Hydra OS 400W128-230;**

**Name of Producer:** “INDUSTRIAL LIGHTING” LTD

### **Purpose:**

The Series LED lighting type HYDRA is created as high class lightning designed to satisfy highest requirements for efficiency, durability and quality. In the production of the product are used only high quality elements of European producers, as follows:



### **LEDs:**

Oslon Sqare – “Osram GmbH” Germany;

### **Power supply:**

OPTOTRONIC® LED OT 200/220-240/5A6 P5 – “Osram GmbH” Germany – 2 pcs.;

### **Diffusor and cover:**

Tempered glass 4mm. ClearVision – Belgium;

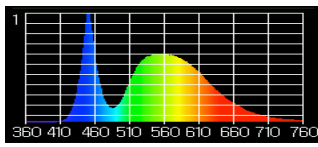
### **Fasteners:**

Only stainless steel according DIN 933;

Technical parameters according producers documentation:

LED light for indoor and outdoor use with dimensions 500/500/160mm. and weight of 17kg.

### Test results:

Operating voltage	<b>AC 230 V</b>	 <p>Spectrum of light Kpuls. = 0.2 %</p>
Operating Current	<b>AC 1.05 A</b>	
Wattage including ballast (watts)	<b>200 W</b>	
Power factor	<b>0.97</b>	
color temperature	<b>4200 K</b>	
Color rendering index CRI	<b>72</b>	
Luminous flux emitted by a luminaire	<b>27 780 lm</b>	
Light output of the luminaire	<b>138.9 lm /W</b>	
Operating voltage	<b>AC 230 V</b>	
Wattage including ballast (watts)	<b>300 W</b>	
Power factor	<b>0.97</b>	
color temperature	<b>4200 K</b>	
Color rendering index CRI	<b>72</b>	
Luminous flux emitted by a luminaire	<b>38 940 lm</b>	
Light output of the luminaire	<b>129.8 lm /W</b>	
Operating voltage	<b>AC 230 V</b>	
Wattage including ballast (watts)	<b>400 W</b>	
Power factor	<b>0.96</b>	
color temperature	<b>4200 K</b>	
Color rendering index CRI	<b>72</b>	
Luminous flux emitted by a luminaire	<b>48 560 lm</b>	
Light output of the luminaire	<b>121.4 lm /W</b>	

**Color temperature of LEDs** standard production 5000 K.

### Index of color rendering:

Standard lighting Hydra OS are with index of color rendering CRI min 80.

Operating temperature of the lamp is from -30 °C to +55 °C

**Degree of protection IP 66:**

**Degree of protection IK 08:**

**Certification:**

Luminaires Hydra OS has full **CE** certification.

## LED LIGHTING TYPE „HYDRA“GROWTH 400W

**Type of the product:** Hydra 400W128-230;

**Name of Producer:** “INDUSTRIAL LIGHTING” LTD

### Purpose:

The Series LED lighting type HYDRA GROWTH is created as high class lightning designed to satisfy highest requirements for efficiency, durability and quality. In the production of the product are used only high quality elements of European producers, as follows:

LEDs: OSRAM - Germany;

- GDCSHPM1.14-UOVJ-W4-1;4 DB 450 nm 150 deg. 24 pcs;
- GHCSHPM1.24-4T2U-1;4 HR 660 nm 150 deg. 98 pcs;
- GFCSHPM2.24-4S2T-1;4 FR 730 nm 150 deg. 2 pcs;
- LUWCRDP-LRLT-GPGR-1-350-R18;4 7500K; 4 pcs;

### Power supply:

OPTOTRONIC® LED OT 200/220-240/5A6 P5 – “Osram GmbH” Germany– 2 pcs.;

Diffusor and cover:

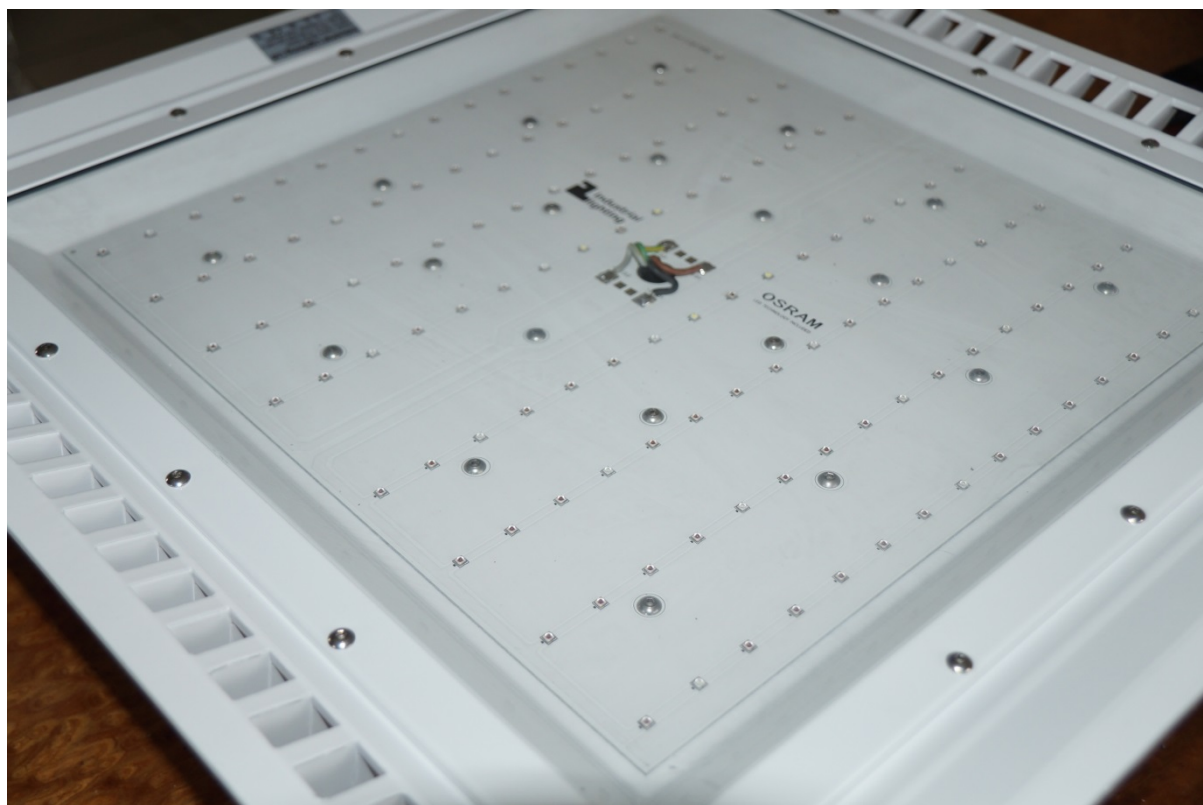
Tempered glass 4mm. ClearVision – Belgium;

Fasteners:

Only stainless steel according DIN 933;

Technical parameters according producers documentation:

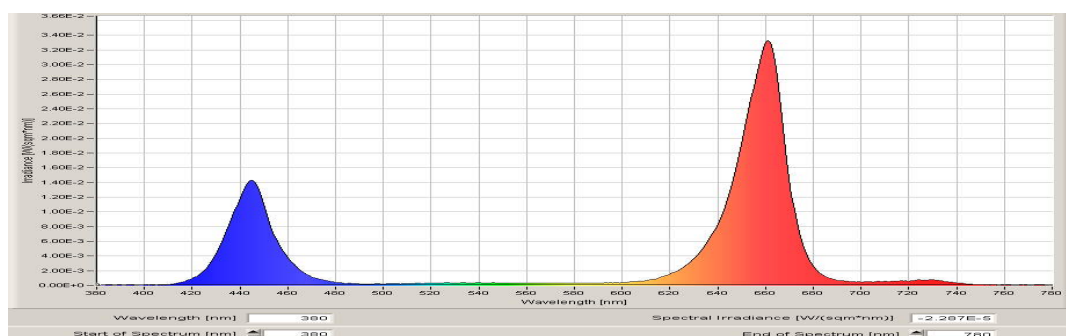
LED light for indoor and outdoor use with dimensions 500/500/160mm. and weight of 17kg.



## Test results:

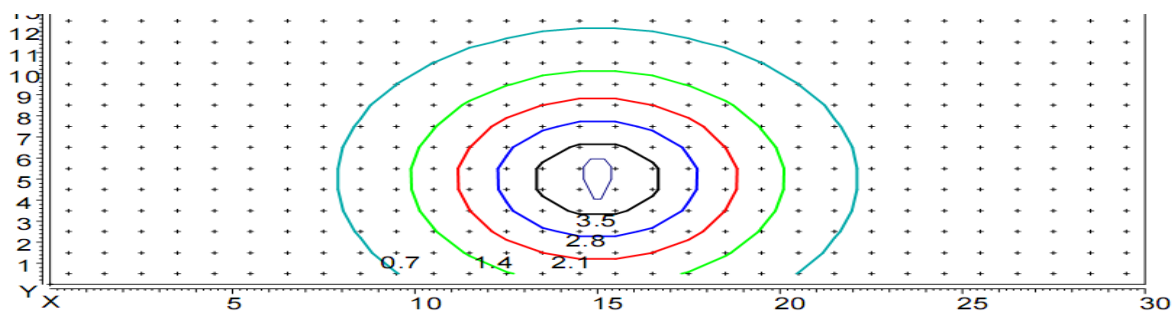
Operating voltage	AC 230 V
Operating Current	AC 0.89 A
Wattage including ballast (watts)	398 W
Power factor	0.98
Luminous flux emitted by a luminaire	838.7 $\mu\text{Mol/S}$

## Luminaire light distribution of the 3D



## Spectrum of light.

Radiation (4 m high) 2.47 W/m<sup>2</sup>



Distribution of PAR,  $\mu\text{Mol/S/m}^2$  in height hanging lamp 5 m.  
Coordinates of the luminaire X=15m, Y=5m.

## PAR , $\mu\text{Mol/S/m}^2$

Distance, m.	PAR , $\mu\text{Mol/S/m}^2$
1	200.4
2	50.20
3	22.20
4	12.0
5	8.0

Degree of protection IP 66:

Degree of protection IK 08:

Certification:

Luminaries Hydra Growth has full **CE** certification

## SERIES LED STREET LIGHTING TYPE „DORADO“

Series include following types of products:

**Dorado 15W12-230, Dorado 20W12-230, Dorado 30W12-230 and Dorado 40W12-230;**

**Name of Producer: “INDUSTRIAL LIGHTING” LTD**

### Purpose:

The Series LED lighting type DORADO is created as high class lightning designed to satisfy highest requirements for efficiency, durability and quality. In the production of the product are used only high quality elements of European producers, as follows:

### LEDs:

Oslo Square – “Osram GmbH” Germany;

### Power supply:

OPTOTRONIC® OTp – “Osram GmbH” Germany;

### Optics and cover:

PMMA –LEDiL Finland;

Makrolon - Bayer AG – Germany;

### Fasteners:

Only stainless steel according DIN 933;

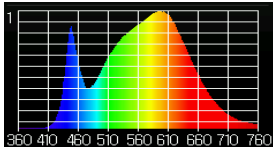
Technical parameters according producers documentation:

LED light for indoor and outdoor use with dimensions 400/170mm. and weight of 2.1kg.



### Test results:

Product name Dorado	15W12-230	20W12-230	30W12-230	40W12-230
Operating voltage	AC 230 V			
Wattage including ballast (watts)	20W	25 W	34.1 W	38.01 W
Power factor	> 0.97			
color temperature	3902 K			
Color rendering index CRI	> 70			
color coordinates CIE 1931	x=0.3876, y=0.3890			
color coordinates CIE 1976	u'=0.2249, v'=0.5079			
Luminous flux emitted by a luminaire	2568 lm	3025 lm	4037.4 lm	4280 lm
Light output of the luminaire	128.4 lm/W	121 lm /W	118.4 lm /W	112.6 lm/W



Light specter  
Pulsation of light = 1.9%

### Color temperature of LEDs

Standard production 4000 K.

### Index of color rendering:

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

### Degree of protection IP 66:

### Degree of protection IK 10:

### Certification:

Luminaries Dorado has full **CE** certification.

## SERIES LED STREET LIGHTING TYPE „LYRA“

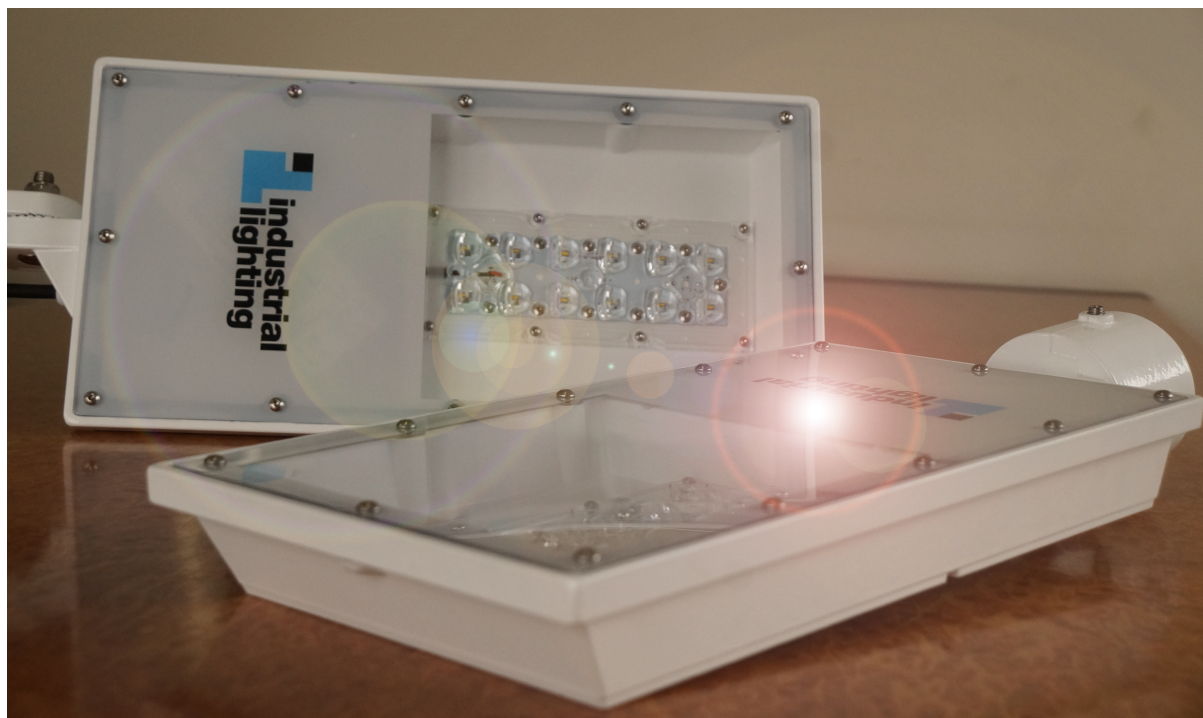
Series include following types of products:

**Lyra 20W12-230, Lyra 30W12-230, Lyra 40W12-230 and Lyra 50W24-230;**

**Name of Producer:** “INDUSTRIAL LIGHTING” LTD

### Purpose:

The Series LED lighting type LYRA is created as high class lightning designed to satisfy highest requirements for efficiency, durability and quality. In the production of the product are used only high quality elements of European producers, as follows:



**LEDs:** Oslon Square – “Osram GmbH” Germany;

**Power supply:** OPTOTRONIC® OTp – “Osram GmbH” Germany;

**Optics and cover:**

PMMA –LEDiL Finland;

Makrolon - Bayer AG – Germany;

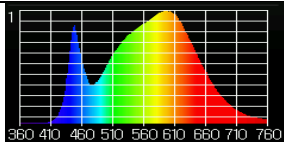
**Fasteners:** Only stainless steel according DIN 933;

Technical parameters according producers documentation:

LED light for indoor and outdoor use with dimensions 500/180mm. and weight of 3.5kg.

### Test results:

Product name	<b>20W12-230</b>	<b>30W12-230</b>	<b>40W12-230</b>	<b>50W24-230</b>	
Lyra					
Operating voltage	<b>AC 230 V</b>				

Wattage including ballast (watts)	25.2 W	33.1 W	40.1 W	50.2 W	 <p>Light specter Pulsation of light = 1.9%</p>
Power factor	> 0.97				
color temperature	3902 K				
Color rendering index CRI	> 70				
Luminous flux emitted by a luminaire	2673 lm	3621 lm	4283 lm	5321 lm	
Light output of the luminaire	106.08 lm /W	109.4 lm /W	106.8 lm/W	106.0 lm/W	

**Color temperature of LEDs** standard production 5000 K.

**Index of color rendering:**

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

**Degree of protection IP 66:**

**Degree of protection IK 10:**

**Certification:**

Luminaries Lyra has full **CE** certification.

## SERIES LED LIGHTING TYPE „LYRA SOLAR“

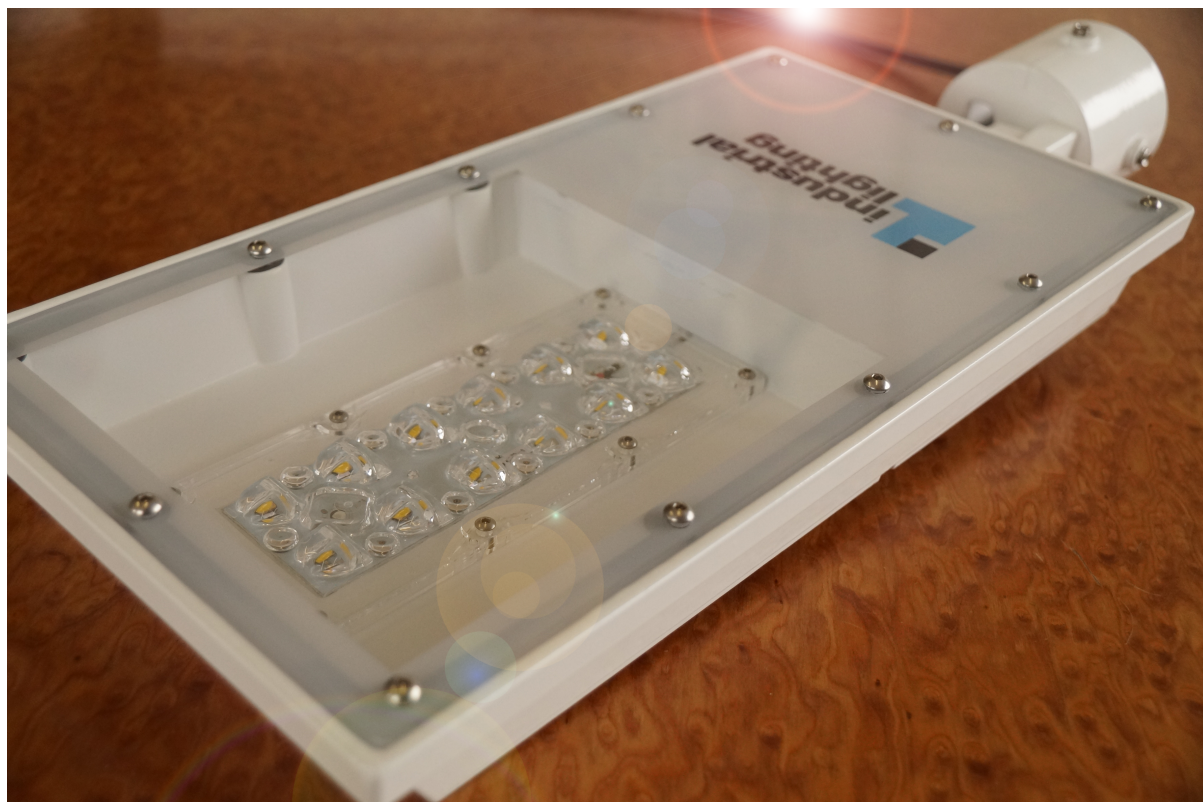
Series include following types of products:

**Lyra Solar 10W12-12, Lyra Solar 20W12-12 and Lyra Solar 30W12-12;**

**Name of Producer:** “INDUSTRIAL LIGHTING” LTD

### **Purpose:**

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



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

### **LEDs:**

Oslon Square – “Osram GmbH” Germany;

### **Power supply:**

OPTOTRONIC® OTp – “Osram GmbH” Germany;

### **Optics and cover:**

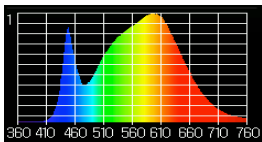
PMMA –LEDiL Finland;

Makrolon - Bayer AG – Germany;

Technical parameters according producers documentation:

LED light for indoor and outdoor use with dimensions 500/180mm. and weight of 4kg.

### Test results:

Product name Lyra Solar	10W12-12	20W12-12	30W12-12	 Light specter Pulsation of light = 32.2%
Operating voltage	10-30VDC PWM dimmable			
Wattage including ballast (watts)	10 W	20 W	30W	
Color temperature	5200 K			
Color rendering index CRI	>80			
Luminous flux emitted by a luminaire	1350 lm	2700 lm	4000 lm	
Light output of the luminaire	135 lm /W	135 lm/W	135 lm/W	

**Degree of protection IP 66:**

**Degree of protection IK 10:**

**Certification:**

Luminaries Lyra Solar has full **CE** certification.

## SERIES LED LIGHTING TYPE „ORION “

Series include following types of products:

**Orion 8W28-230, Orion 15W28-230, Orion 20W28-230 and Orion 30W28-230;**

**Name of Producer: “INDUSTRIAL LIGHTING” LTD**

**Purpose:**

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

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:** ELEMENT LD – “Osram GmbH” 1 Germany;

**Diffusor and cover:** Makrolon - Bayer AG – Germany;

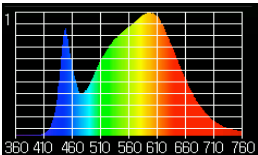
**Fasteners:** Only stainless steel according DIN 933;

Technical parameters according producers documentation:

LED light for indoor and outdoor use with dimensions 200/60 mm. and weight of 1.5kg



### Test results:

Product name Orion	30W28-230	20W28-230	15W28-230	8W28-230	 <p>Light specter Pulsation of light = 23.2%</p>
Operating voltage	AC 230 V				
Operating Current	AC 0.134A	AC 0.107A	AC 0.107A	AC 0.043 A	
Wattage including ballast (watts)	30.1 W	24.1 W	16.72 W	8.32 W	
Power factor	0.98				
color temperature	3995 K				
Color rendering index CRI	84				
Luminous flux emitted by a luminaire	3552 lm	2887 lm	2159 lm	1119.8 lm	
Light output of the luminaire	118.0 lm /W	119.7 lm /W	129.1 lm/W	134.7 lm/W	

**Color temperature of LEDs** standard production 4000 K.

### Index of color rendering:

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

### Degree of protection IP 67:

### Degree of protection IK 10:

### Certification:

Luminaires Orion has full **CE** certification

## SERIES LED LIGHTING TYPE „ERIDAN “

Series include following types of products:

**Eridan 20W24-230, Eridan 40W48-230, Eridan 50W56-230, Eridan 60W64-230 and Eridan 75W80-230;**

**Name of Producer:** “INDUSTRIAL LIGHTING” LTD

### Purpose:

The Series LED lighting type ERIDAN is created as high class lightning designed to satisfy highest requirements for efficiency, durability and quality. Eridan product range includes a variety of luminaries with power up to 75 watts, these lamps can illuminate the premises with a height of 8 meters: In the production of the product are used only high quality elements of Europe producers, as follows:



### LEDs:

Duris S5 – “Osram GmbH” Germany;

### Power supply:

OPTOTRONIC® OTp – “Osram GmbH” Germany;

### Diffusor:

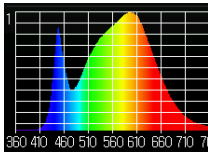
Diffused light with low glaring index UGR<19

Technical parameters according producers documentation:

LED light for indoor and outdoor use with dimensions:

- 600/110/100mm - 20 W,
- 1200/110/100mm - 40 и 50 W,
- 1500/110/100mm - 60 и 75 W;

### Test results:

Product name Eridan	20W28-230	40W28-230	50W28-230	 Light specter  Pulsation of light = 23.2%
operating voltage AC [V]	230			
weight [kg]	2.0	2.3	2.6	
wattage including balast [W]	24.1	40.72	50.32	
cos(φ)	0.98			
color temperature [K]	3995 K			
color rendering index CRI	84			
luminous flux emitted by a luminaire [lm]	2651	4479	5535	
light output of the luminaire [lm/W]	110	110	110	

**Degree of protection IP 65, optional IP 67:**

**Degree of protection IK 10:**

**Certification:**

Luminaries Eridan has full **CE** certification.

## 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:**

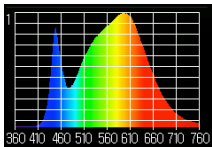
Makrolon - Bayer AG – Germany;

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:

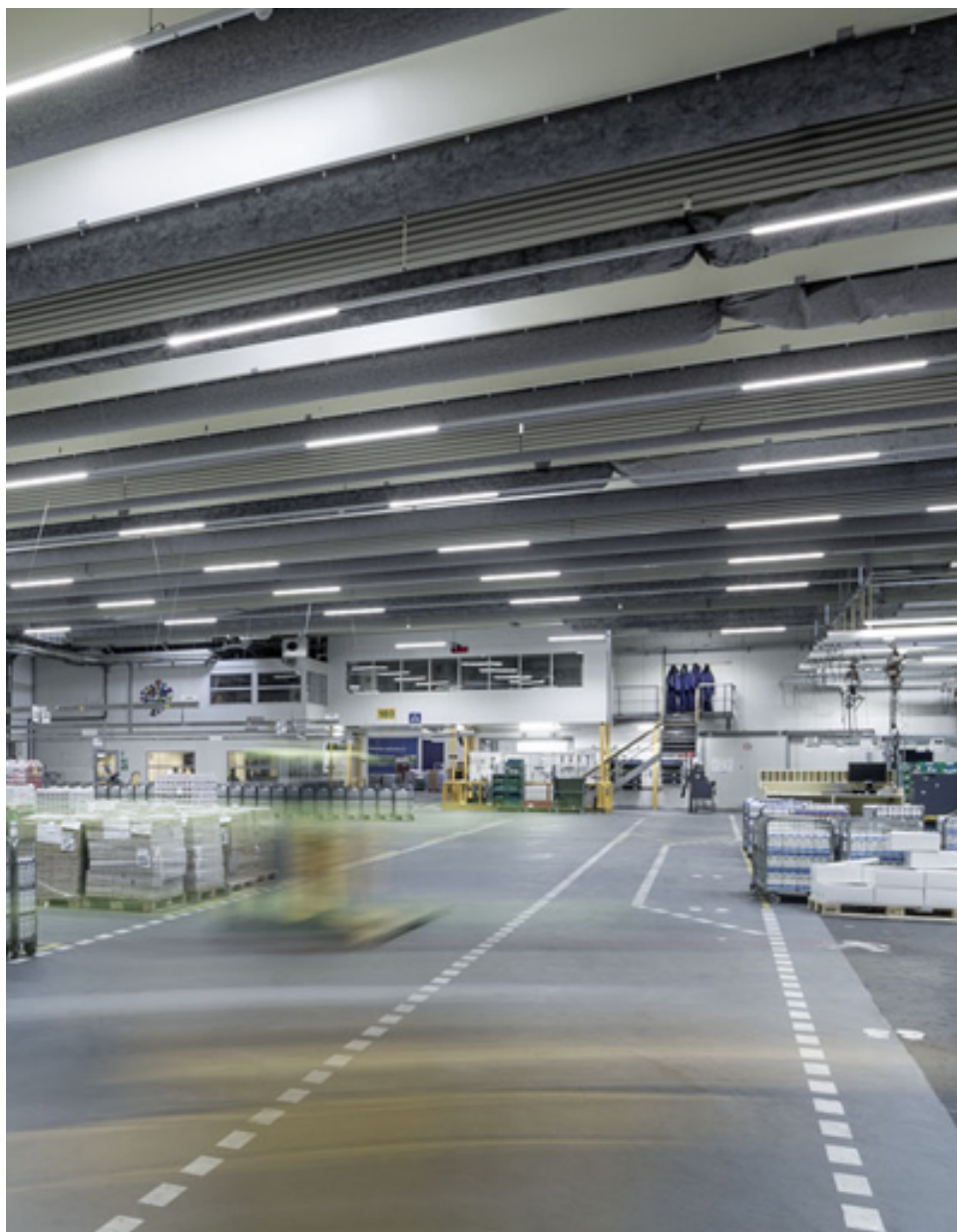
Product name Eridan S	40W48-230	70W56-230	140W112-230	 Light specter  Pulsation of light = 21.4%
operating voltage AC [V]	230			
Weight [kg]	1.5	3.0	5.0	
wattage including ballast [W]	44	76	158	
cos(φ)	> 0.95			
color temperature [K]	5200 K			
color rendering index CRI	>80			
luminous flux emitted by a luminaire [lm]	4840	8360	17380	
light output of the luminaire [lm/W]	110.0	110.0	110.0	

**Degree of protection IP 64:**

**Degree of protection IK 08:**

**Certification:**

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



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