



Polish manufacturer global standards

We are a manufacturer of lighting present on the market for 30 years, and thanks to our experience we know everything about luminaires and lighting systems: we design, test, produce and explore the possibilities.



Środa Wielkopolska, Poland



LENA LIGHTING S.A. has been one of the lighting market leaders for 30 years. Based on 100% Polish capital, it designs, constructs and manufactures professional lighting solutions. It is one of the largest companies and one of the most recognised brands in the region of Greater Poland, where its headquarters

and production facilities are located. The company has been listed on the main market of the Warsaw Stock Exchange since 2005. By developing exports to 70 countries around the world, it has achieved the position of an undisputed leader of professional luminaire exporters among Polish manufacturers.

Highly efficient industrial lighting

OCULUS LED

We present HIGH-BAY luminaire from the NEXT GEN product line, constituting a new generation of luminaires dedicated to LED technology.

Due to the use of highly efficient diodes, it is distinguished by very high luminous flux up to 35850 lm and luminous efficiency up to 176 lm/W.

Its undeniable, noteworthy advantages include: durability, energy efficiency and ability to work in high temperatures up to 60°C.

Primary technical data:

Colour temperature: 4,000 K
Power: 72-206 W
Luminous flux: 12,250 lm - 35,850 lm
Working temperature: up to 60°C
Lifespan: up to 108,000 h





Scan the QR code and get access to the product technical data sheet





Inspired by nature

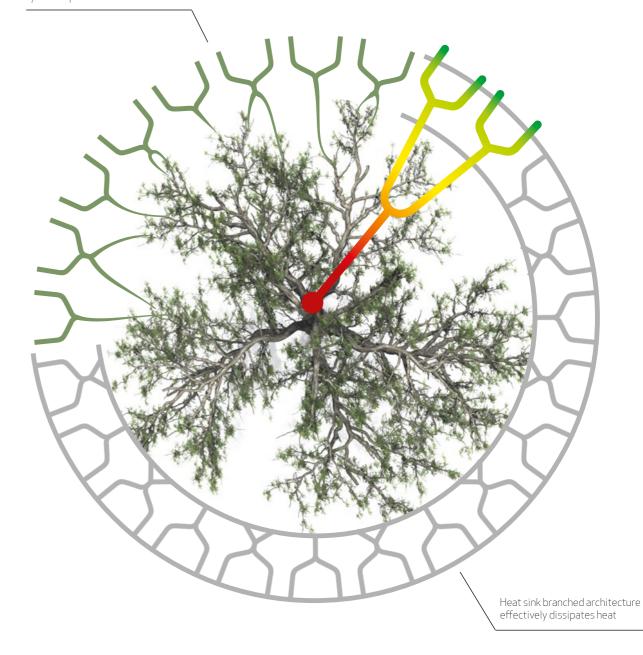
Care for the natural environment is one of the values which guide our activities

– we use eco-friendly components and provide our products with highly energyefficient solutions.

When designing OCULUS LED – we went one step further. Solutions concerning the luminaire's heat management have been modelled on natural phenomena. The heat sink design – based on branched architecture to dissipate heat as efficiently as possible – is inspired by the shape of plants.



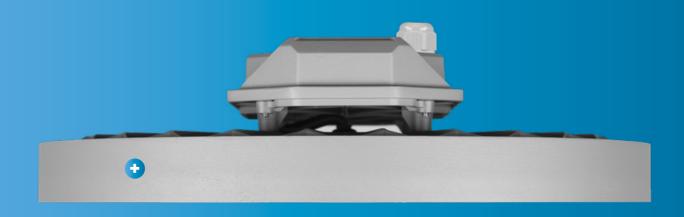
Heat sink design inspired by the shape of a tree



Thermal imaging photos of the 26,400 lm (146 W) version at 45°C showing temperature distribution at the heat sink.

Perfect heat dissipation management

The luminaire structure and materials used for its construction ensure excellent heat management. Due to the conduction and convection effects as well as the designed shapes and surface finish, heat is effectively removed from the luminaire, guaranteeing optimal thermal conditions for the operation of the power supply system.









The driver's external compartment separated from the body, guarantee optimal thermal working conditions for the power supply system.

10 / OCULUS LED INDUSTRY / 11



Proven in difficult conditions

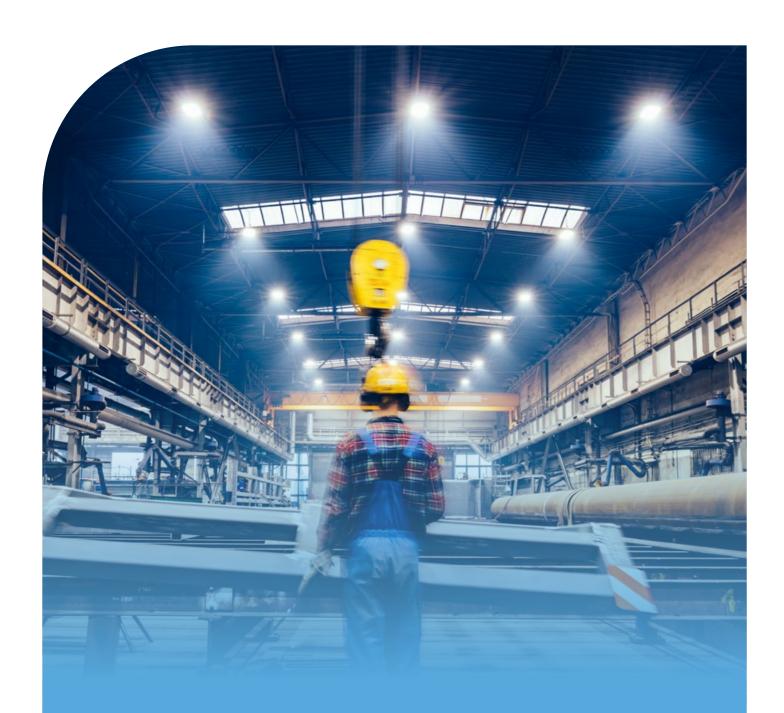
OCULUS LED is a great solution not only for large-format warehouse halls and logistics centres, but also a solution that will work well in demanding production conditions with high humidity, dust or temperature up to 60°C. Due to its high ingress protection, it can be mounted outside of buildings.











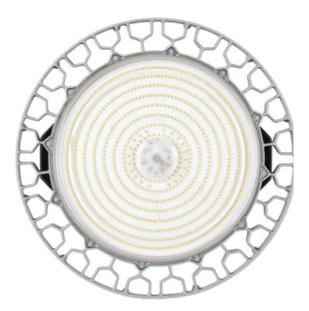
Powerful and precise optical system

The luminaire uses a modern optical system. It is available in two versions. One with a glass with an integrated linear lens matrix (55°, 75° light distribution).





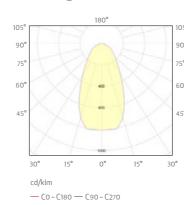
Luminaire with a polycarbonate diffuser and an integrated linear lens matrix - 55° and 75° light distribution



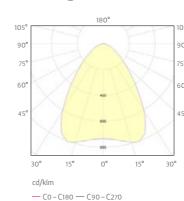


Luminaire with a glass or polycarbonate diffuser - 105° light distribution

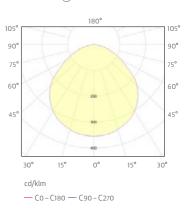
55° light distribution



75° light distribution



105° light distribution



14 / OCULUS LED





Solid body and high impact resistant class

The robust aluminium body and diffuser made of polycarbonate (PC) or tempered glass provide the luminaire with a high level of impact resistance IK 09.



Perfect for applications in humid and dusty spaces

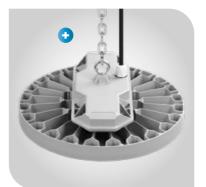
OCULUS LED is equipped with silicone sealing and a breathable gland, which protect the luminaire against moisture condensation inside and provide it with a very high level of ingress protection IP 66. Thus, it can be used in areas with increased humidity and dust concentration.



emergency module

Option with an emergency module ensures proper lighting of evacuation routes.









Mounting

OCULUS LED is suited for suspended mounting and – with the use of additional accessories – also on surface (ceiling and wall with tilt adjustment).

Low weight

Luminaire's low weight significantly simplifies the mounting process and, as a result reduces its cost.

The installation is also faster due to only one mounting point.

OCULUS LED comes standard with a 0.3 m long Ho7RN-F cable and with an additional male and female connector for easier mounting. Savings related to the ergonomics of the mounting process are also noticeable during servicing.

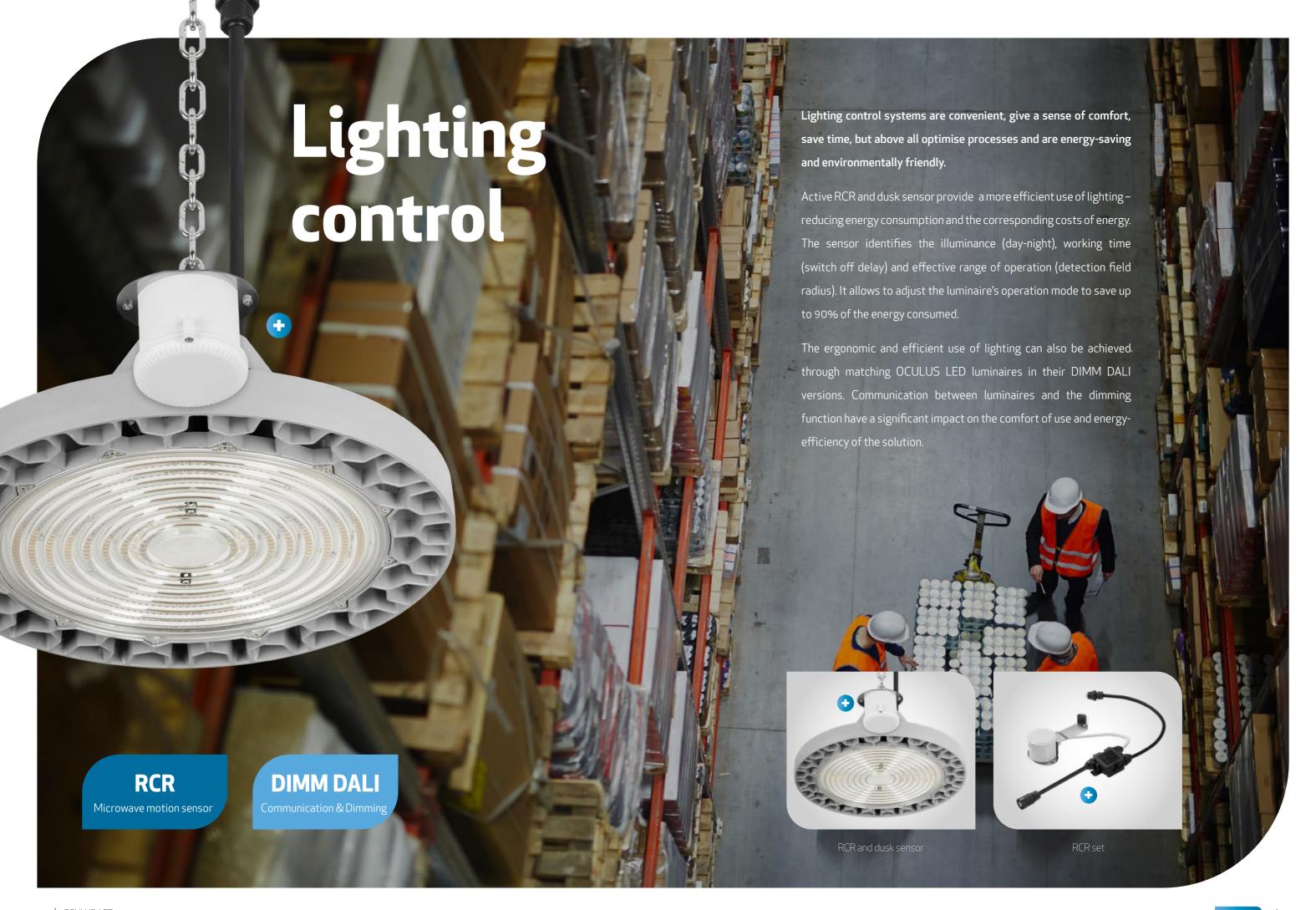
Environment with high ambient temperature OCULUS LED ENDURA

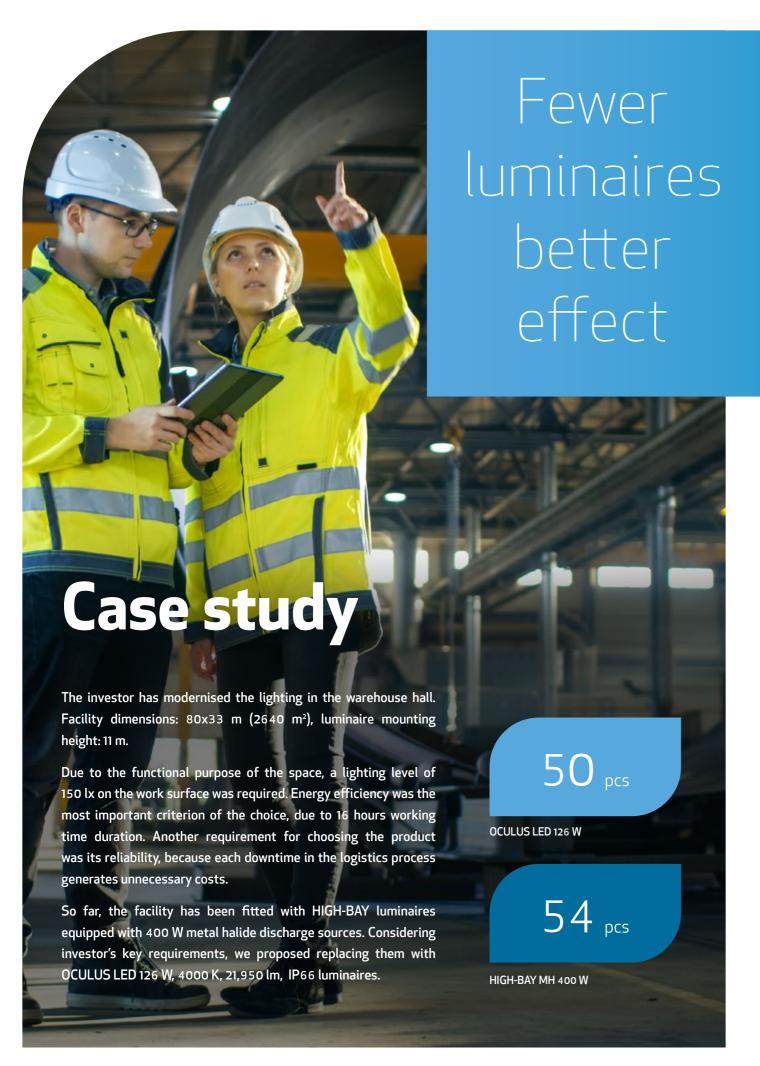
+75°C

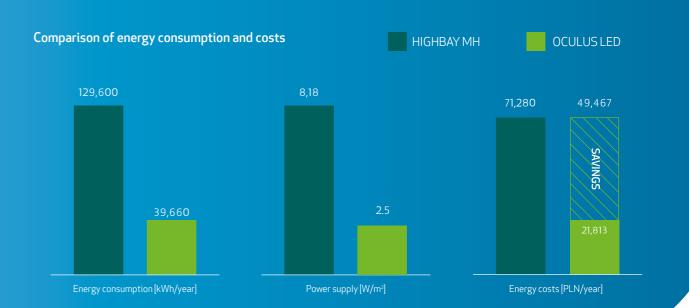


In areas with high temperatures, it is necessary to use luminaires which will cope with the demanding conditions while maintaining their high operational parameters. OCULUS LED ENDURA has proven its performance in ambient temperatures up to 75°C. Adverse environmental conditions will not affect the luminaire's reliability.

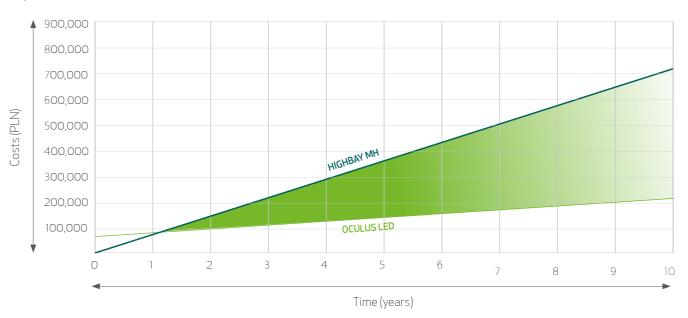








Depreciation of costs



The comparative analysis has shown multiple benefits resulting from using LED luminaires. As per the proposed design, the number of installed luminaires was reduced by 4. With OCULUS LED luminaires, the energy costs have substantially decreased. This is due to the reduction in electricity consumption by almost 70% and minimisation of luminaire servicing costs (e.g. replacement of traditional sources), made possible through fitting the LEDs with modern LED GO! light modules, characterised by a long-lasting period of operation. The cost of purchasing OCULUS LED luminaires is offset by a reduction in the cost of electricity and return on investment is less than 16 months. After that period, the investor will experience a constant and dynamic increase in profits due to the use of LED luminaires.

Basic assumptions:

The luminaire's working time is 16 hours per day; price for 1 kWh = PLN 0.55 (EUR 0.128); market cost of lamps according to the knowledge of Lena Lighting S.A.; lamp replacement frequency – according to the declared service life.

69,4%

ENERGY SAVINGS

15,77 months

ON INVESTMENT



Entrust your design to professionals

The type of lighting and its arrangement require the right selection in the design process. Each room has different lighting requirements, which is why it is so important to meet them.

Engineers working in our design office will prepare a project that meets all standards and guarantees comfort of use. The client receives free-of-charge consultancy and project documentation, which guarantee high quality and compliance with standards.

The comprehensive design often includes a lighting control system, ensuring the greatest possible energy savings during use. We support our clients in the selection of the lighting concept and individual products – we also make visualisations.

DIALux







OCULUS LED

State and State of the State of							
Nominal power [W]	сст[к]	Luminous flux [lm]	Beam angle [º]	Diffuser material	DIMM DALI	EEI	Index
72	4000	13300	105	PC	-	A++	964145
72	4000	12850	55	PC	-	A++	964169
72	4000	12850	75	PC	-	A++	964152
72	4000	12500	105	Glass	-	A++	964916
73	4000	12650	105	PC	-	A++	963957
73	4000	12250	55	PC	-	A++	963971
73	4000	12250	75	PC	-	A++	963964
101	4000	17000	105	PC	-	A++	963896
101	4000	16450	55	PC	-	A++	963919
101	4000	16450	75	PC	-	A++	963902
104	4000	19000	105	PC	-	A++	964060
104	4000	18300	55	PC	-	A++	964084
104	4000	18300	75	PC	_	A++	964077
104	4000	17900	105	Glass	-	A++	964923
104	4000	19000	105	PC	Yes	A++	964206
104	4000	18300	55	PC	Yes	A++	964220
104	4000	18300	75	PC	Yes	A++	964213
104	4000	17900	105	Glass	Yes	A++	964978
126	4000	22700	105	PC	-	A++	964039
126	4000	21950	55	PC	-	A++	964053
126	4000	21950	75	PC	-	A++	964046
126	4000	21300	105	Glass	-	A++	964930
141	4000	23000	105	PC	-	A++	963926
141	4000	22250	55	PC	-	A++	963940
141	4000	22250	75	PC	-	A++	963933
146	4000	26400	105	PC	-	A++	964022
146	4000	25500	55	PC	-	A++	964015
146	4000	25500	75	PC	-	A++	964008
146	4000	24800	105	Glass	_	A++	964947
206	4000	35850	105	PC	-	A++	964114
206	4000	34650	55	PC	-	A++	964107
206	4000	34650	75	PC	-	A++	964091
206	4000	33600	105	Glass	-	A++	964954
206	4000	35850	105	PC	Yes	A++	964190
206	4000	34650	55	PC	Yes	A++	964183
206	4000	34650	75	PC	Yes	A++	964176
206	4000	33600	105	Glass	Yes	A++	964992





OCULUS LED EMERGENCY

Nominal power [W]	CCT[K]	Luminous flux [lm]	Beam angle [º]	Diffuser material	Emergency luminous flux [lm]	Emergency lighting [h]	Emergency type	EEI	Index
72	4000	13000	105	PC	950	3	NM	A++	964374
72	4000	12850	55	PC	850	3	NM	A++	963889
72	4000	12850	75	PC	850	3	NM	A++	964381
104	4000	19000	105	PC	950	3	NM	A++	964336
104	4000	18300	55	PC	850	3	NM	A++	963865
104	4000	18300	75	PC	850	3	NM	A++	964343
126	4000	22700	105	PC	950	3	NM	A++	964312
126	4000	21950	55	PC	850	3	NM	A++	963858
126	4000	21950	75	PC	850	3	NM	<u>A</u> ++	964329
146	4000	26400	105	PC	950	3	NM	<u>A</u> ++	964305
146	4000	25500	55	PC	850	3	NM	<u>A</u> ++	963841
146	4000	25500	75	PC	850	3	NM	A++	964299
206	4000	35850	105	PC	950	3	NM	<u>A</u> ++	964367
206	4000	34650	55	PC	850	3	NM	A++	963872
206	4000	34650	75	PC	850	3	NM	A++	964350

Accessories

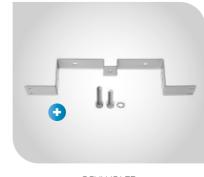


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Name	Index		
RCR and dusk sensor (excluding ENDURA)	964244		
Protective grid	964862		
Surface mounting bracket	964893		
Multi-purpose mounting bracket	964886		

OCULUS LED RCR and dusk sensor

OCULUS LED Protective grid





OCULUS LED
Surface mounting bracket

Multi-purpose mounting bracket

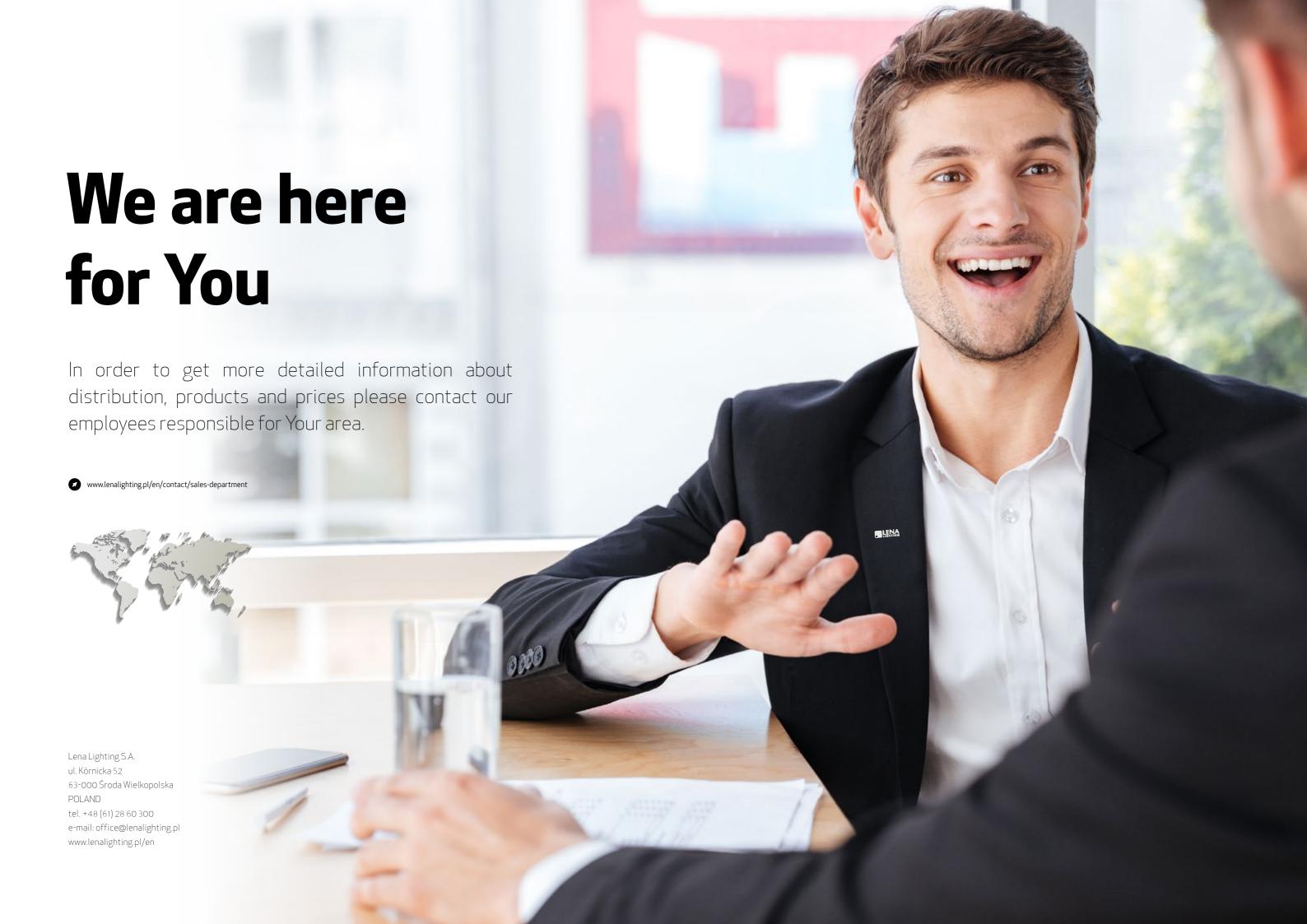
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All our products meet the requirements of the European Union's declaration

Luminaire parameters are given with tolerance permitted by the standard. The manufacturer reserves the right to change the parameters of the product not for the worse, in the course of its improvement, and to make design changes or upgrade the product. Materials presented in the booklet are not a commercial offer. The complete, current offer of Lena Lighting along with current parameters can be found at www.lenalighting.pl.

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28 / OCULUS LED / 29



INDUSTRY





Lena Lighting S.A.
ul. Kórnicka 52
63-000 Środa Wielkopolska
tel. +48 (61) 28 60 300
email: office@lenalighting pl