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**LED**  
LIGHT FITTING  
FOR TUNNELS





## OUR COMPANY

We are a Polish manufacturer of specialized, industrial lighting fixtures. We have been creating advanced and innovative solutions for over 11 years. We specialize in structures dedicated to difficult working conditions and harsh environments.

We design, manufacture and sell lighting fixtures dedicated to various market sectors. Our offer is divided into five main divisions: explosion-proof fixtures and accessories, vandal-proof fixtures (for railway infrastructure and tunnels), fixtures for prisons and penitentiary establishments, heavy-duty light fixtures for industry and street tunnel lighting.

We support our clients at the stage of selecting and designing lighting. In cooperation with customers we develop special solutions dedicated to a specific project and application.

## DESIGN AND DEVELOPMENT



Tunnel lighting is a **very demanding application**. Although each project has its own design and therefore has to be treated individually there is always one common denominator which is **priority on traffic safety**. In the tunnel, where is no natural light, everything has to be properly illuminated. Entrance lighting has to allow the eye to adjust to surroundings. Passage has to be evenly lit. Each emergency exit or installation must be clearly visible and marked. Lighting at the end of the tunnel again must allow eye adaptation to natural light.

Bearing that in mind we have developed our light fixtures for road tunnels. In order to confirm the highest quality and safety of our products we have **additionally certified them for compliance with EN 60598-2-22 standard**. Our lighting project team has been expanded with **people having extensive expertise** in this topic. Thanks to this we can combine lighting project and products giving the best solutions for each installation.

We use only the highest quality materials from reputable european manufacturers. Thanks to strict quality control procedures, we can offer products that guarantee long and trouble-free operation.

By focusing on development and continuous product improvement, we try to approach each project separately. The R&D department is working on the development of our offer based on the most modern solutions available on the market. **We prepare individual designs** of our luminaires tailored to the client's needs and in accordance with the current EU industry standards.



## EN 60598-2-22 CERTIFICATE



# ESCAPE AND RESCUE LIGHTING



## TNL300LED

Evacuation light fixture with LED modules. **The fixture is designed to be completed with a pictogram showing the closest emergency exit.** The housing is made of the stainless steel. The lamp shade is made of the tempered glass. TNL300LED is **available with optional sideways lighting to show emergency route.** Ingress protection degree is **IP65**. DALI compatible drivers available as an option.

Optionally TNL300LED fixture can be made of **stainless steel type 304, 316 or 316Ti**. External connection elements are made of the steel type 316.

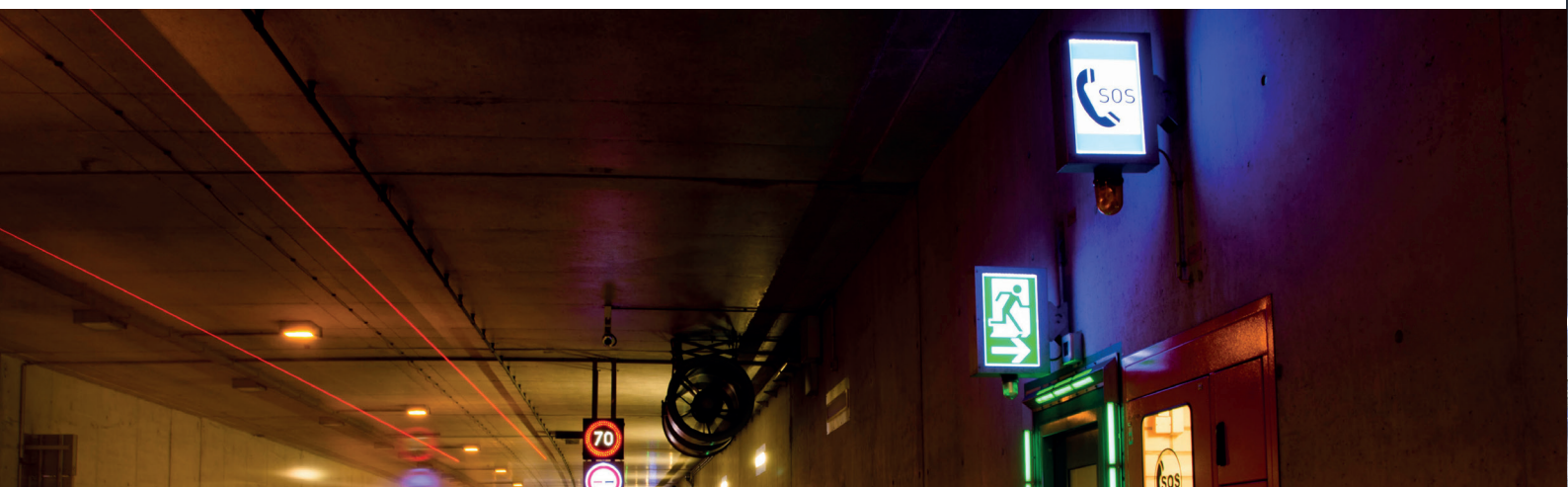


## TNL310LED

Evacuation light fixture with LED modules is **designed to point characteristic elements within the length of the tunnel (e.g. evacuation doors, emergency phones, fire extinguisher etc.).** TNL310LED is equipped with beam light flashing during emergency situations. The housing is made of the stainless steel. The diffuser is made of the tempered glass. Ingress protection degree is **IP65**.



Optionally TNL310LED fixture can be made of the **stainless steel type 304, 316 or 316Ti**. External connection elements are made of the stainless steel type 316.

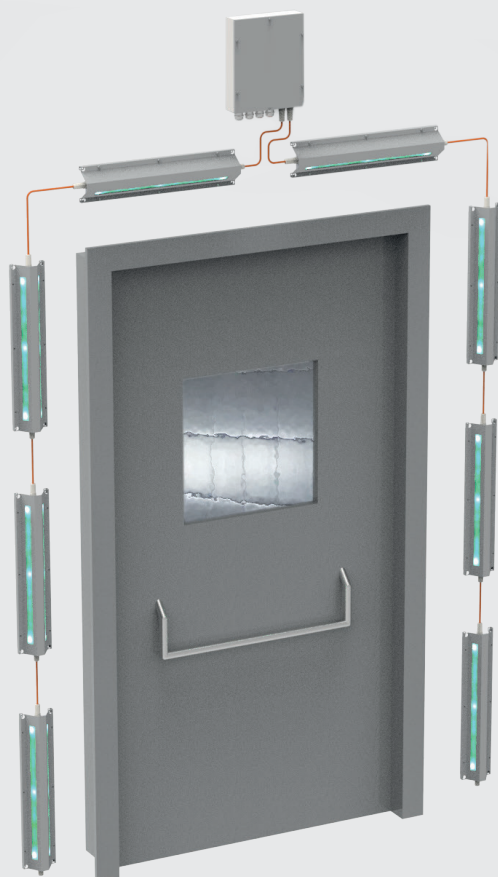




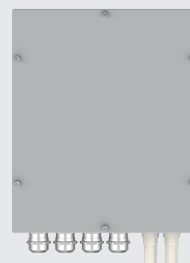
## TNL320LED

Evacuation LED light fixtures system. Designed to indicate the evacuation door. The housing is made of the stainless steel. The lamp shade is made of the tempered glass. Spacing between and quantity of fixtures can be adjusted regarding to project requirements. Connection is made with plug and socket system.

Optionally TNL320LED fixture can be made of the steel type 304, 316 or 316Ti. External connection elements are made of the steel type 316.



LIGHT FIXTURE



CONNECTION BOX

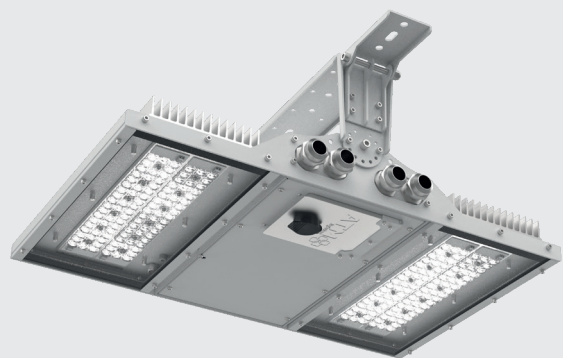
## EVACUATION DOORS LIGHTING SYSTEM



QUANTITY AND SPACING BETWEEN  
ELEMENTS FULLY ADJUSTABLE  
TO MATCH THE DOORS



## ENTRANCE AND PASSAGE LIGHTING

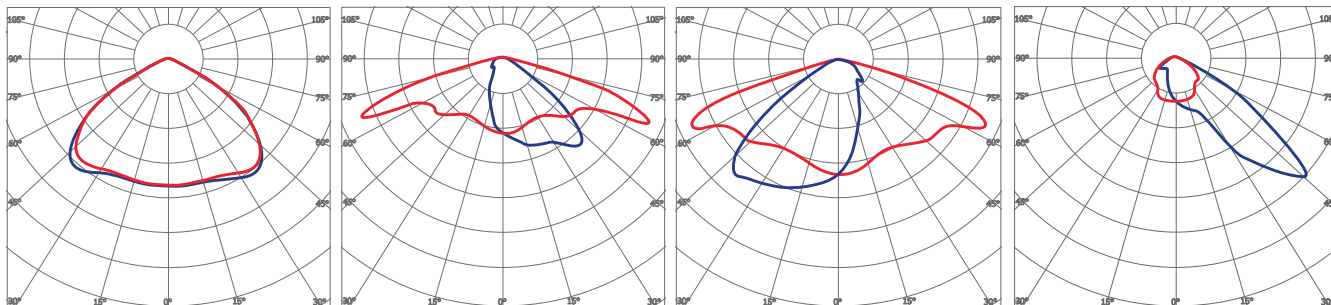


### TNL440LED

**Heavy-duty floodlight** dedicated to entrance and passage lighting. Equipped with reliable, **ENEC certified**, LED modules and drivers. **Luminous flux up to 55000 lm**. TNL440LED can be produced with different types of optics. The fixture is equipped with a **key lockable inspection flap**. IP66 protection degree. The housing is made of the **stainless steel** (314, 316, 316Ti types available). Diffuser is made of the tempered glass.

Special adjustable wing brackets allow mounting the floodlight taking into account the curvature of the tunnel walls.

## HIGH QUALITY OPTICS



## EXEMPLARY PHOTOMETRIC CURVES







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