



2019

Case Study

New lighting with control system on the S6 expressway
between Kołobrzeg and Ustronie Morskie

www.luxonled.eu





Main connection between Szczecin and Gdańsk on the Baltic coast

The S6 expressway lighting is another project we completed together with Apanet - a company that provides innovative lighting control systems. Upon their recommendation, we were contacted by Arkowar - a company from Warsaw and the subcontractor of the project, specializing in the implementation of projects in the field of design, construction, modernization, and electrical works.

We had to provide luminaires that met the specific requirements for this section of the expressway (between Kołobrzeg and Ustronie Morskie), where two junctions are located. We created an offer that was accepted and then implemented.





Challenge

How to change the project including sodium luminaires with the new one, based on energy-saving LED technology?

The design of the lighting system for this section of the S6 expressway was created a few years ago and included traditional sodium lamps. Our goal was to prepare a modified version of that offer, but using new solutions in LED technology.

It required us to calculate and compare the differences between the old offer and our project, in accordance with the

requirements set by the General Directorate for National Roads and Motorways.

These regulations concerned the luminance and the evenness of lighting according to the standards of road classes. What's more, the new lighting was supposed to have a control system, and our customer required an extended warranty on the luminaires because using LED technology the expected lifetime of the luminaires is much longer than in the case of traditional sodium lamps.



Solution

Luminaires suitable for the new calculations for LED lighting that would precisely illuminate the expressway

After introducing appropriate changes to the calculations, we suggested using three different luminaires suitable for street lighting. The first one was the Cordoba LED with high efficiency and special lenses responsible for optimal light distribution.

The second one was the Toledo LED lamp, which can use various optics to freely shape

the photometric body. The last one was the Skylight LED with high luminous flux.

All the lamps are specifically designed for external use and have larger-than-average resistance to external factors. The lighting was then synchronized with the control system provided by Apanet.



Customer benefits

We have fulfilled the client's requirements

- Extended warranty on favourable terms to make sure any flaws are quickly repaired
- Compatibility with the control system
- Meeting all the requirements set by the General Directorate for National Roads and Motorways
- Replacement of traditional sodium lamps for which the original project was made with equivalent LED luminaires
- Quick implementation

Implementatnion Summary

7 years
warranty

x151



Toledo:LED

ENEC-certified luminaire for all types of roads and highways requiring high light intensity. It is equipped with the AstroDIM function and a number of specially designed lenses that guarantee optimal light distribution.

x70



Cordoba:LED

Innovative street luminaire, designed to illuminate any type of road. It is equipped with the AstroDIM function and a number of specially designed lenses that guarantee optimal light distribution.

x2



Skylight:LED

External luminaire for facades of industrial and logistic facilities. High luminous flux and resistance to weather conditions guarantee long-term use.



LUXON
LED

Contact:

tel.: +48 71 733 60 50
e-mail: biuro@luxon.pl
www.luxonled.eu

Media:

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