



PHILIPS

Outdoor lighting

Architecture and Landscape



Case Study

Illumination of the Royal Castle in Warsaw

Warsaw, Poland



“ Thanks to the new lighting the characteristic shape and architectural details are revealed at night, showing the beauty of the castle.”

Prof. dr hab. Andrzej Rottermund, Director of the Royal Castle in Warsaw



Background

The Royal Palace is one of Warsaw's most known landmarks, dating back to the baroque-classicism period. It is located on the Castle Square in the old city.

It used to be the residence of the Dukes of Masovia, however in the 16th century it became the residence of the government authorities of the Republic of Nobles: the king and the parliament.

The history of the castle in the 19th century was extremely violent: after the fall of the November uprising (Polish-

Russian war in 1830-1831), it was used mostly by the Russian administration, and later during World War I it became the residence of the German Governor-General. Between 1926 - 1939 it was the residence of the President of the Republic of Poland.

The castle was burned down and robbed by the Germans in 1939 and was nearly entirely destroyed in 1944. The reconstruction process took many years. Currently the Royal Castle is considered as a monument of history and national heritage and is recorded on the list of registered museums in Poland.

The project

One of the requirements set by the heritage conservator was preserving the color of the facade as faithfully as possible. Moreover, it was important to make sure that the floodlights were not visible from the view and did not interfere with the object's architecture.

The creation of the lighting design concept for the facades of the Royal Castle was driven by high aesthetic values, based on recognized illuminations of global scale, for this type of buildings. A decision was made to achieve the best possible

light parameters with energy efficient solutions, which guaranteed high quality and sustainability of the equipment used. To meet the installation and maintenance requirements the latest LED solution eW Graze linear lighting was chosen, connected to Philips DynaLite control system.

The solution made it possible to meet the requirements for the project. Moreover, the aesthetic, inground floodlights, with a high degree of tightness, did not interfere with the movement of vehicles and pedestrians.



The benefits

The floodlights have a long lifespan of 50,000 hours and that makes it possible to use them for 10 years and reduce on maintenance. In addition, the low energy consumption, paired with the DynaLite control system, gives the best possible light performance, which guarantees an optimal light distribution and correct contrast balance. The representative character of the building was highlighted and an architectural depth of the building was realized by using light. The spotlight lighting brought out the architectural elements of the castle.

The LED lighting solution gave this remarkable landmark a new character and the energy-saving solution reduced the energy consumption by 70%. The east side of the Royal Castle, as seen from the bank of the Vistula River, received a new, royal dignity illumination.

The castle looks impressive after dusk, catching the eyes of many of the capital's citizens and visitors. The modern illumination is skillful connected, preserving the unique character of the object. The Royal Castle, the flagship of Warsaw, received a new and attractive look.



eW Graze

“**Lighting history** of Royal Castle through LED illumination.”



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