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DUAL POLLUTION

Summary

Light pollution at night is caused by excess light emitted in space, its intensity and wrong orientation. This phenomenon often occurs due to the lack of design coordination with other light sources such as: street lighting, advertising and floodlights. All these types of lighting should be planned to work in harmony. There is, however, yet another kind of light that may contribute to light pollution, that created for aesthetic and artistic reasons. These are light structures, three-dimensional sculptures created with the very light itself. The history of such structures dates back to the late nineteenth century. This paper lists some of the most famous light works by artists such as Nikola Tesla, Walter D'Arcy Ryan, Carles Buigas, Leni Riefenstahl, Albert Speer, Gert Hof, John Bennett, Ryoji Ikeda and Rafael Lozano-Hemmer. An unifying and common feature of such light structures, in order to be fully appreciated, is requirement of low illuminance in immediate environment as well as of a medium onto which they are displayed, such as smoke, dust or mist. Hence the phenomenal phantoms often arise solely as a result of dual light pollution. .