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Yakymchuk D.M., *PhD in technical sciences, associate professor of hotel and restaurant business; starcon-1@mail.ru*

IMPLEMENTATION THE MODERN TECHNOLOGIES OF LIGHTING DESIGN IN HOTEL-RESTAURANT BUSINESS

Kherson State University, Ukraine

Implementation the modern technologies of lighting design in hotel-restaurant business is enough an actual topic which contains many different approaches of development, factors influencing the current problems and criteria for efficiency of application as appropriate equipment and a set of measures in general. Lighting design as a type of designing space is a new and progressive direction of use modern technologies in many areas of society. Today he occupies a leading and popular place in the development of all types of design; therefore he paid a lot of attention and hope great expectations the modern designers and developers of technology.

The article discusses the main aspects of lighting design – this aesthetic perception, ergonomic and energy efficient use these technologies in hospitality establishments. Found close interaction between of all aspects of lighting design together that is supported by modern solutions.

As a rule, the selection of lighting devices, considering their power, energy intensity, lighting possibilities is difficult task for most leading experts. Therefore, in order to solve the task of energy efficiency of lighting devices need to perform a series of operations and settlement regulatory documents, rules and appropriate principles which provide the proper scheme of creating a light ensemble.

Specified aspect is important also because which is composed of various lighting systems and their components, that have different functionality realization of artistic and architectural lighting, at the same time there is a possibility of permanent modifications as shape and color. For example, light-optical system of exposition light – uniform illumination of the object, which creates in all realized space necessary level of illumination for processing the details and color reproduction of all visible elements of the object. This implies that various system characteristics of energy efficiency of lighting devices are able to influence on internal and external space hospitality establishments from different perspectives in different ways.

To obtain the desired result should include these aspects of lighting design and details of scopes studying and designing. This is the main base of research, for which technical aspects can sometimes be played in various forms, mostly incorrect due to inexperienced young professionals. This work leads to the degradation of other aspects that must be development on one level.

Light as an element of primary importance shows formative skills; without it is

impossible to estimate the volume, space or surface, as they are dead. Color vibration can alter the character of architectural space. The nature of light, optophysical properties, physiological perception, and also lights are actively involved in the reproduction of images, objects space as whole and individual architectural and spatial elements establishments of hotel and restaurant management.

There are eleven optophysical properties of light, which affect the interior space of hospitality establishments. They are in certain degree affect per person and create possible defects of project light construction in any environment.

Modern lighting technology became the main in the market of industrial equipment for practical use in various fields. The bases of these technologies are currently active application of LED lighting devices, which are used in all spheres of human activity.

LED – is electric lighting device, which consists of specific crystalline semiconductors and optical system. In one case can be mounted just a lot of semiconductor crystals which determine the saturation and brightness of the light flux. Compared with the usual incandescent lamps, LED has a number of conclusive advantages.

He, at first, not heated, electrical energy is almost completely converted into light. Second, the lack of heating accompanied by considerable strength and particularly long period of exploitation. Thirdly, the LED is completely safe for the environment, because they do not contain dangerous substances for humans and the environment.

Its average service life may reach one hundred thousand hours, which be about 10 years of continuous exploitation. That is the main argument in its favor. That is, LED consumes less power and not heated, environmentally safe and serves very long.

The light emitted by the LED lamp is bright, clean and decorate any interior. Separately should remember such feature of LED lighting as the ability to customize of any color or tint under any requirements. This valuable feature of LED lighting successfully used in practice by engineers and designers. Special controller allows to adjust saturation and light brightness, sometimes it is necessary in places of public use.

More often LED-s begin to be used in street lighting systems, that is provided street lighting, roads, parks by LED lamps. Using this type of lighting can significantly reduce the load on the electrical network. Created LED lamp light output is stable and has a maximum angle of dispersion. It is also important that such lighting can produce a completely any modifications and configurations, which allow them be the most optimal tool for implementing ideas which everything in design.

The flight fantasy of lighting designer in lighting field is now practically is not limited. LED lamps used in street lighting are extremely resistant to adverse atmospheric conditions, practically not exposed into high and low temperatures. Their operating range is between plus 50 to minus 50 degrees on Celsius. This vitality allows their use in saunas, baths and basins.

Installation of LED lights is quite simple. For that do not need to use any special technical devices and materials. In addition, LED-s is lighter in weight than incandescent bulbs that are associated with feature of manufacturing technology. Any

element LED system in case of failure easily replaced without requiring replacement of other devices and systems.

Thus, the implementation of modern lighting design technologies in establishments of hotel and restaurant management is a relevant topic, which is solved at a modern level with the widespread use of LED technology and a comprehensive approach to the criteria indexes of efficiency and the use of modern lighting systems.

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