

HYDRA 936_2.0

Impressive results even at low color temperature.

With the support of the Technical University of Ilmenau (Germany), the tests of the latest generation of Industrial Lighting Ltd. Hydra 936 luminaires have been completed. This will result in a loss of efficiency for the luminaire. The new modification of our product proves the possibility the use of diodes with neutral white (less than 4000k) for industrial needs, without decrease in the efficiency of the lamp.

Until now, the higher efficiency of LEDs at high color temperature (over 5000K), necessitated their widespread use in the industry. However this reduced comfort during prolonged operation and led to easy tiredness and reduced staff performance.

In addition, a lower color rendering index (CRI > 70) was allowed to increase the efficiency of industrial luminaires, which further reduced the potential for good color perception and also led to faster fatigue and discomfort.

All this is changing with the latest generation of Hydra 936_2.0 luminaires, the 3878 Kelvin high-efficiency LEDs used and the CRI 83.4 color rendering index give the luminaire efficiency at 200 watts of 161 lm / W, which is 32,200 lm. Emitted by the luminaire, an achievement that can be found only in branded and expensive luminaires. Currently, massively-used industrial luminaires have an efficiency of about 100 to 130 lm / W. using LEDs with a color temperature above 5500K and a CRI color index of about 70.

An undoubted advantage of this luminaire is the use of 936 LEDs, whose large dimensions (2.8 x 3.5 mm.) And the area they occupy (360mm square side) significantly reduce the dazzling effect of the high power of the luminaire.

Thanks to the new technologies, Industrial Lighting allows us to significantly increase the comfort of work and, accordingly, increase the working capacity of the employees in the industry without reducing the efficiency and quality parameters of the lighting.