CTL DECISION SHEET (DSH)

Standard(s) (incl. year)	Subclause(s)	Tracking No.	Year
IEC 60598-1 All editions	3.2.13	DSH 2174	2021
Category			
LITE			

Subject	Keywords	Developed by	To be approved
Symbol for minimum distances from lighted objects	- Distance symbol - Lighted objects - Installation instructions	CTL-ETF5 - OSM/LUM	2022 CTL Plenary Meeting

Question

§3.2.13 require that luminaires which might overheat the lighted objects due to the applied lamp type, the shape of the reflector, the adjustable mounting means, location of mounting etc., shall be provided with the symbol for minimum distance from lighted objects.
As decided and explained in DSH0836: "In case the temperature of the lighted object at a distance of 10 cm is less than 90°C, the distance symbol is not applicable."

Question: is it necessary to place that symbol also on LED industrial high bays, floodlights or street lights, where it is obvious from the installation instructions that they shall be mounted at a reasonable distance from the lighted object?

Decision

Answer: No, Examples of luminaire types excluded from this requirement by the characteristics of their installation and use include(they will not overheat lighted objects due to installation hights): Street lanterns; Floodlights (for wide area lighting); high bay and other industrial luminaires intended for high level installation, ceiling mounted luminaires with a wide photometric distribution are installed at high level and will not be lighting objects as described in §3.2.13. Furthermore, luminaires using light sources with a relatively low surface temperature or low infrared content (e.g. fluorescent lamps, LED sources) are also considered unlikely to overheat any lit object.

Note: for other luminaires as above other temperature measurements made during thermal testing (e.g. light source surface temperature, diffuser temperature, measurement of luminaire parts within the light path) may also be used to guide that no measurement of the lit surface is required.

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Explanatory notes