

Analysis of Multi-source Light by Supercomputer

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Abstract

The aims of this paper is to show the result obtained after the categorization of a multi-source light with LED technology, from the point of view of lighting, in order to be used for different functions such as those listed below:

- Establishment of an analysis procedure for future characterization of luminaries with LED technology, even if these are multi-source or not.
- Verifying the possibility of using multi-source luminaries to study the effects that produces light on human beings in the sense of taste.
- Using multi-source lights in classrooms in order to improve student concentration, at times, and create an atmosphere of relaxation, in others.
- Obtaining data that allow us to control the luminary to simulate sunlight in workplaces that lack it.
- Find the best setting of the luminary for lighting caves, to avoid the maximum as possible, the algae growth into the caves.

References

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