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# THE USE OF LED TECHNOLOGY IN STAGE LIGHTING: A LITERATURE REVIEW

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## CONTEXT

Since 2007, withdrawal of incandescent lamps, halogen lamps and fluorescent tubes in favor of LED lighting, by international decision



*Gradual transition for performing art until 2024, the LED complements halogen lighting.*

## METHOD

Keywords used in online scientific research databases: **SCENIC - LIGHTINGLED - SHOW - THEATER - DANCE - CONCERT - OPERA.**

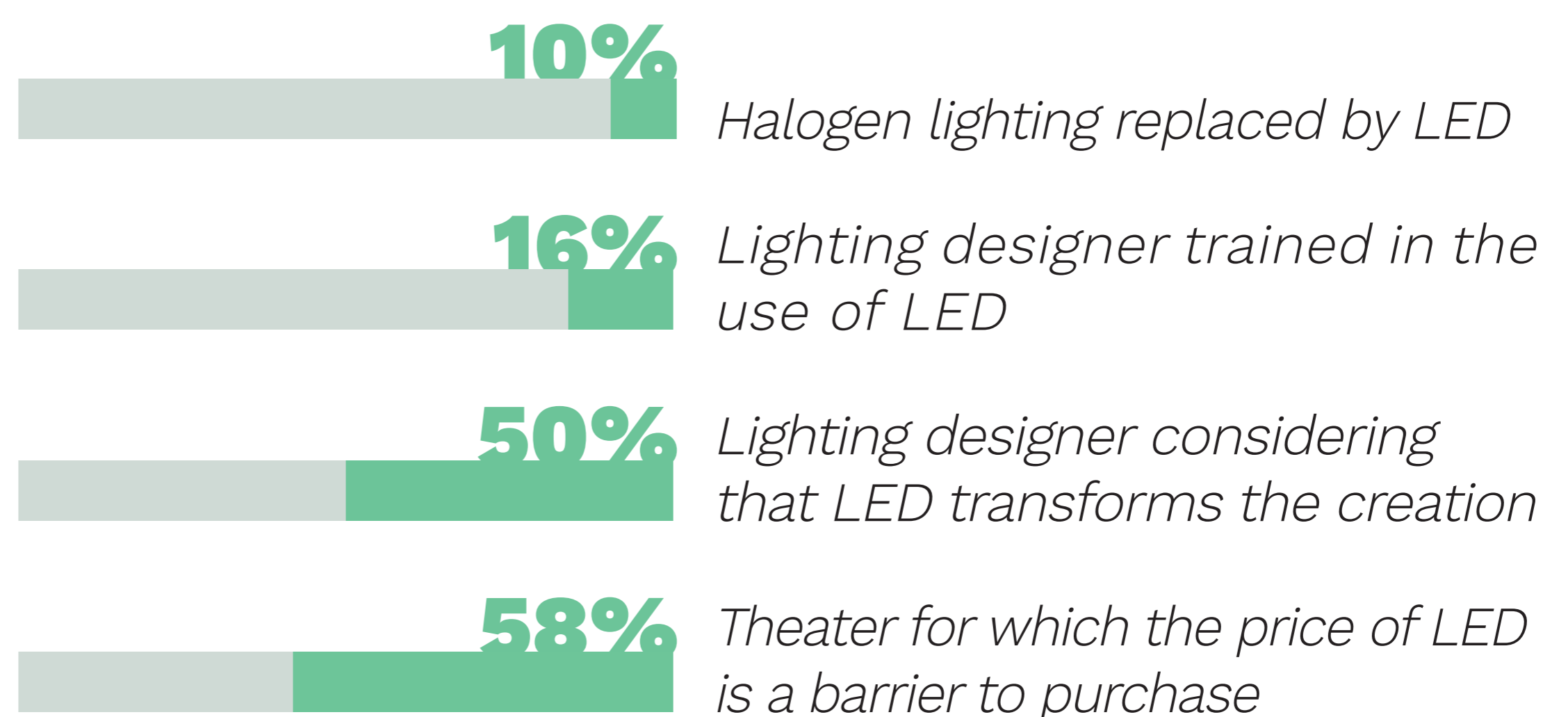
Initial results: 17,221.

Relevant results after analysis: 14  
▶ The LED revolution in stage lighting is very little considered.

The results are international (Canada, France, USA), the first publications appears following the first regulation. The publications are theoretical, for informational or educational purposes.

## RESULTS

### LED IN FRENCH THEATERS IN 2024



### LEDS SPECTRA ARE DIFFERENT FROM THOSE OF CONVENTIONALLY USED LAMPS

- Change in visual rendering, colors and shadows, different light directivity.
- Difficulty in finding the known properties and mastering the appearance of stage objects.
- Lack of knowledge of the effects produced and the qualities perceived and experienced.

## CONCLUSION

The LED revolution is driving an **evolution of techniques and practices** and leading to the emergence of new needs (adaptability of processes). Stage lighting professionals need an **update of the literature** to rethink their practice, address the obstacles and limitations they encounter. This change requires **new studies and characterizations of light.**