

# LUXEON Fusion

## A new era in lighting

LUXEON Fusion is a result of Lumileds listening to the wants and needs, but also the points of frustration of architects, lighting designers, luminaire manufacturers and installers, which is how we came up with this holistic solution that addresses all of those concerns. LUXEON Fusion is the first and only solution on the market that offers a combination of freedom of white color selection and adjustment after fixture installation, dim to warm capabilities and dynamic tunable white lighting.

With all of these highly coveted options this solution provides, LUXEON Fusion allows for more efficient fixture development and manufacturing, including SKU count reduction, and enables end users to create a unique ambiance by setting their own color tone.



### APPLICATIONS

Retail

Architectural

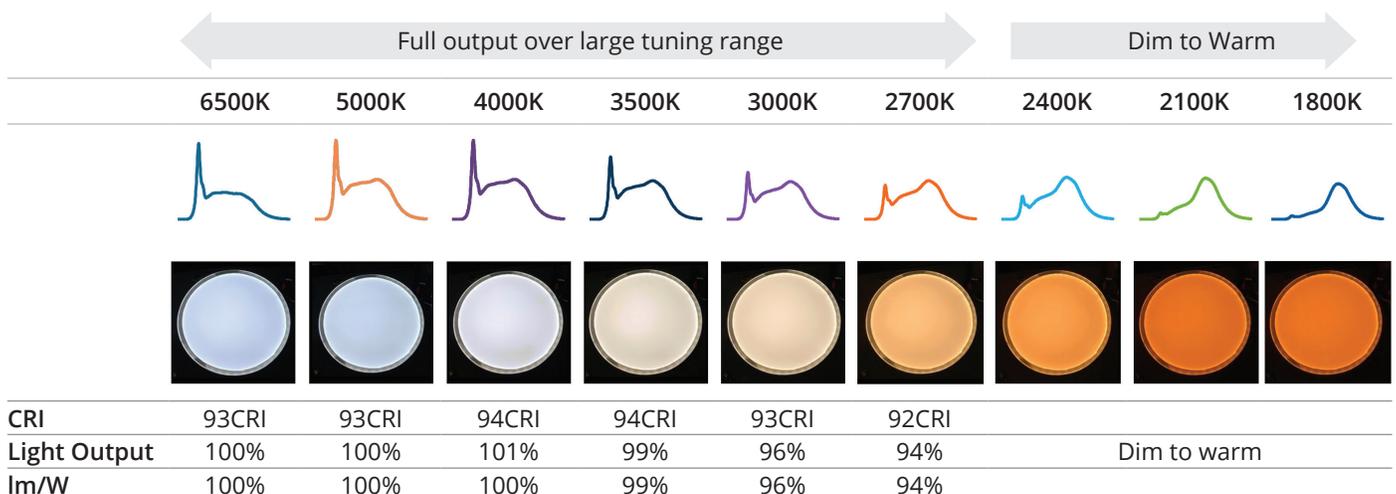
Human Centric Lighting

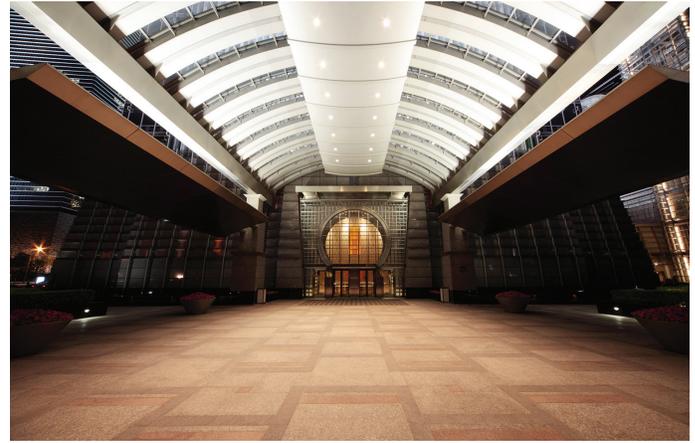
- Office
- Healthcare
- Education
- Industrial

Hospitality

Residential

## Performance Demonstration





## FEATURES

Allows for any color temperature setting within an exceptional color tuning range from 1800K to over 10,000K with desirable high CRI >90 (over 95% of the range) and color fidelity

Delivers up to two times higher system efficiency than conventional 2 and 3 CCT-based white tunable solutions

Provides color on demand with precise color temperature tracking on the black body curve within 0.001 Duv or any specific color point above or below the black body curve

Offers perfect dim to warm properties down to 1800K

Available in LUXEON 2835 mid power offering and high power Chip Scale Packaging (CSP) for linear, downlight and spotlight type of applications

Provides high system efficacy and excellent color stability, comparable to white LUXEON LEDs

3 point single channel option allows for the use of a standard single channel driver

The system is easy to operate and enables a seamless interface with any analog or digital wired and wireless lighting control system

## BENEFITS

A solution designed to open up color tuning for mass adoption and volume application

A system solution that simplifies fixture development and manufacturing, including SKU count reduction, resulting in faster project fulfillment

One single solution to achieve the exact same high color quality and color impression across the different fixtures in a lighting plan

On-site color point tuning allows for making final adjustments without changing the hardware or lighting scheme

Constant light output across the tuning range with 30% to 50% lower LED count than conventional white color temperature tuning systems, resulting in more compact and higher performance fixtures

Single channel driver operation reduces overall system cost



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