

# Human Centric Lighting

Using Thrive™ Technology from Bridgelux Inc.



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# Thrive

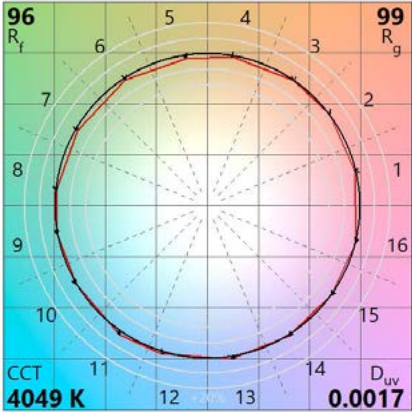
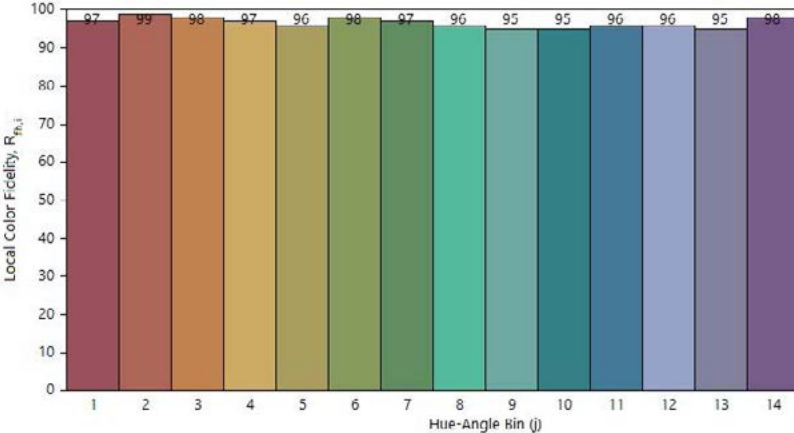
It's in our DNA



Humans have evolved and thrived for millions of years under the sun’s natural daylight. Bridgelux Thrive is engineered to provide the closest match to natural light using a proprietary technology.

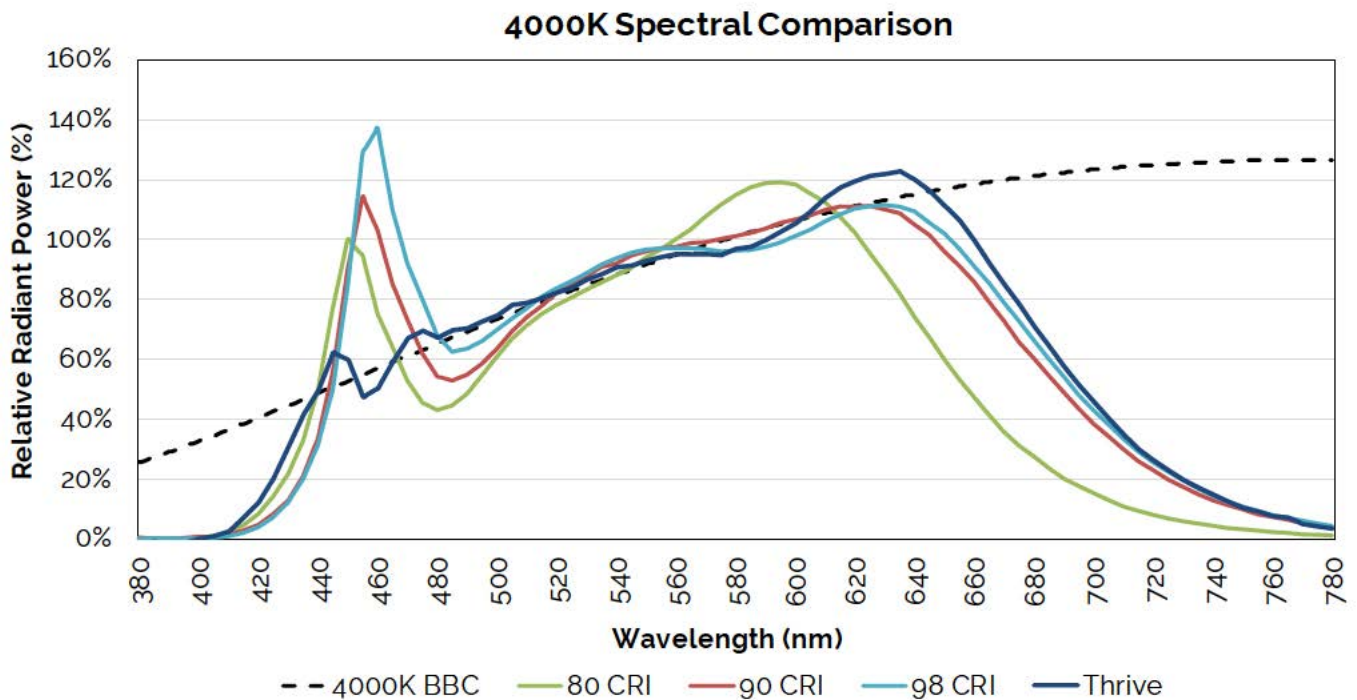
**Features and Benefits:**

- High fidelity human centric white points engineered to match the spectra of natural light.
- Typical 97 CRI with R1-R15 values ranging from 91 to 99 and excellent TM-30 metrics.
- High efficiency design architecture.
- Affordable solution optimized for health and well being.
- Broad product portfolio ranging from 2700K-4000K standard 5700K & 6500K options available.
- Smooth, full spectra with reduced blue emission and no violet peak.
- Natural and vivid color rendering.
- Greater energy savings, lower utility and environmental costs.
- Accelerated adoption of full spectrum natural lighting.
- Enables design flexibility and color consistency.



## Thrive Spectral Matching to Natural Light:

- Bridgelux Thrive provides the closest match to natural light using proprietary chip, phosphor and packaging technology.
- To quantify spectral matching, Bridgelux has defined a new term: Average Spectral Difference (ASD). ASD is calculated by measuring the absolute difference between the LED spectrum and a natural light source spectrum at discrete wavelengths. These values are then averaged across different wavelength ranges and reported as a percentage.
- Bridgelux Thrive has an ASD between 3% and 7% for all color points across the typical LED wavelength range of 440-650nm, including a very close spectral match with an ASD as small as 2% for some color points in the blue/cyan range where most LED light sources suffer.
- Standard 80, 90 and 98 CRI light sources have an ASD that is two to six times larger than Thrive over the same wavelength range and up to 20 times greater in the cyan wavelength range.



Thrive Human Centric Lighting will be offered in many of our products

**CALIBER PLUS**   
ARCHITECTURAL

**HL**SERIES

**SPEC<sup>2</sup>**

**LumiCube™**

*Industriale Series*

**AS4 Series**

**MULTICARE®**

**C70 Series**

**Estilo Series**

 **CentralDrive®**

**IRD**

 **PATHWAY  
LIGHTING**

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