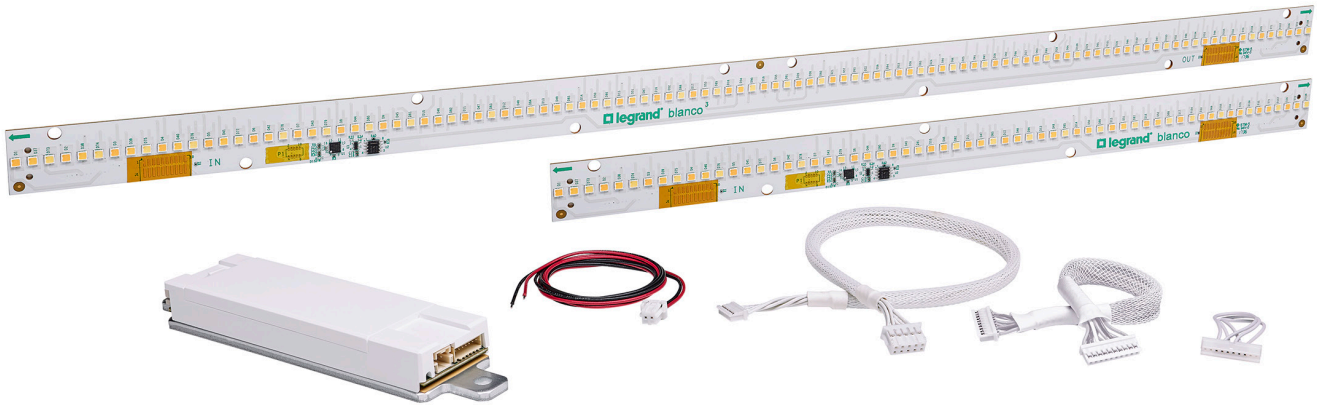
TUNABLE WHITE LED LIGHT ENGINE

BLANCO 2



Overview

The Blanco 2 LED light engine delivers fixture manufacturers a completely integrated solution that enables the highest quality tunable light available. An LED light engine with integrated control, installed in fixtures, now makes tunable lighting easy to design, install, commission, and use.

The Blanco LED light engine consists of a logic module and one or more Blanco LED arrays that connect via multi-conductor cables.

Blanco logic modules feature on-board driver electronics and logic for precise control of dynamic Blanco LED arrays. On-board closed-loop thermal feedback compensates each LED string for thermally induced variations in light output due to intensity or changes in ambient temperature.

A patented manufacturing process captures and stores the unique performance characteristics of each LED array and generates a unique control model for each resulting in unparalleled color consistency. Delivered light can be dimmed from 0.1–100% at any color temperature in its range.

Operation

Blanco 2 mixes two channels of white LEDs, which enables precision light along the blackbody locus while delivering a wide range of color temperatures.

The Blanco 2 Logic Module connects to any Blanco 2 LED array, which are available in both Zhaga-compliant linear and round form factors. The Blanco 2 solution delivers tunable white light at 90+ CRI with excellent color consistency across its entire color temperature range (3000K–5000K).

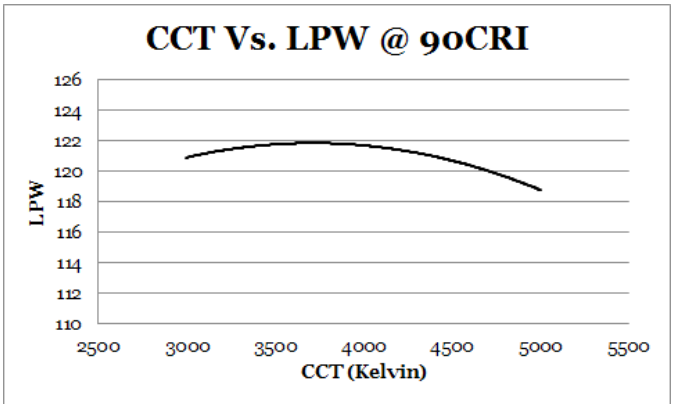
When paired with the Wattstopper Digital Lighting Management (DLM) control platform, the Blanco 2 LED light engine enables automatic fixture commissioning. This removes additional labor expenses and expands the industry-leading Wattstopper Plug-n-Go™ architecture.

Features

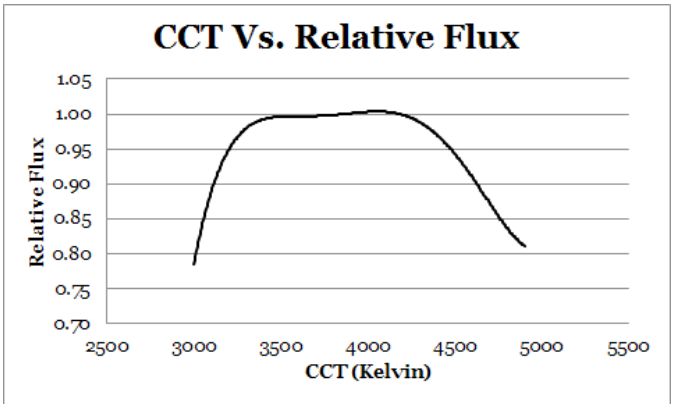
- Correlated Color Temperature (CCT) Range: 3000–5000K
- 90+ Color Rendering Index (CRI) across the entire CCT range
- Patented manufacturing process captures and compensates for the unique performance characteristics of each LED array
- Precision architectural dimming from 0.1–100% at any color temperature
- On board thermal feedback and characterization ensures excellent color consistency
- Control Platform Compatibility: Wattstopper DLM
- Additional 48VDC power supply required to power Blanco 2 Logic Module

PROJECT		LOCATION/ TYPE	

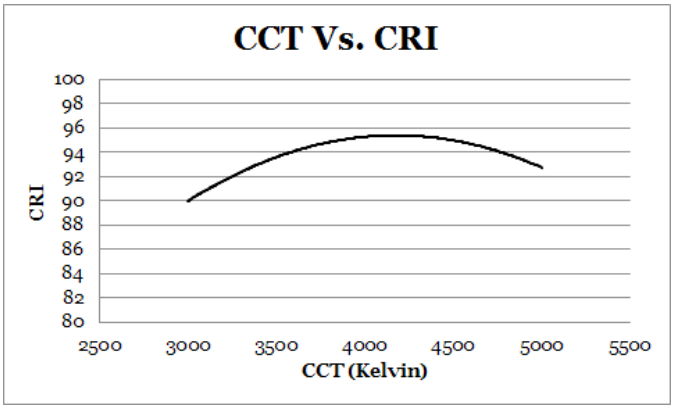
LED Array Performance



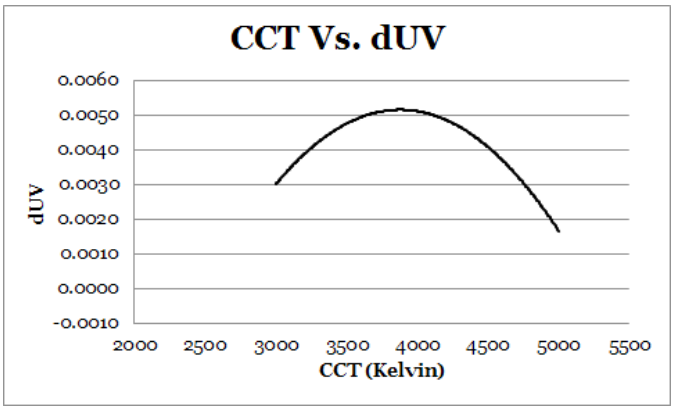
Typical lumens per watt at deferring correlated color temperatures



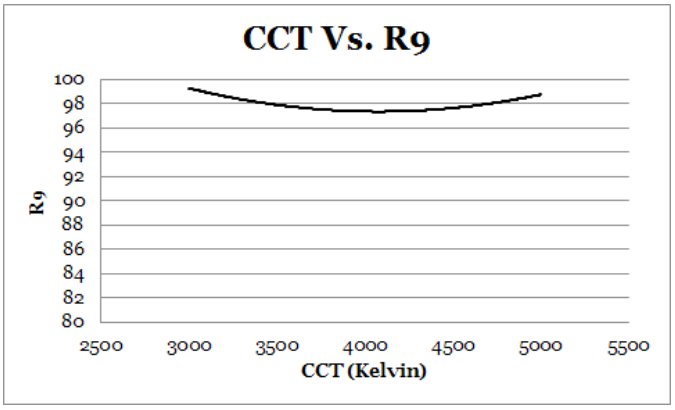
Typical relative flux at deferring correlated color temperatures



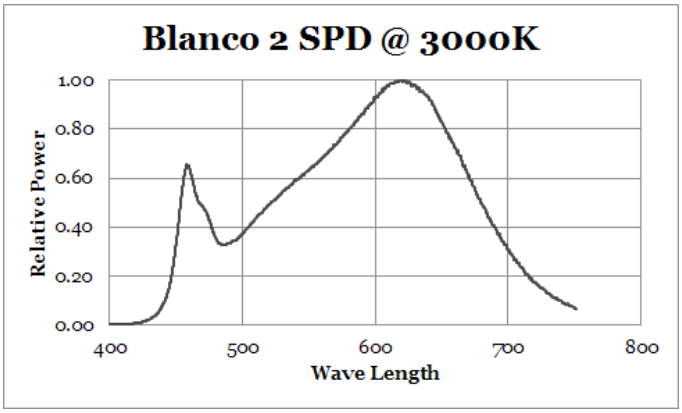
Typical CRI at deferring correlated color temperatures



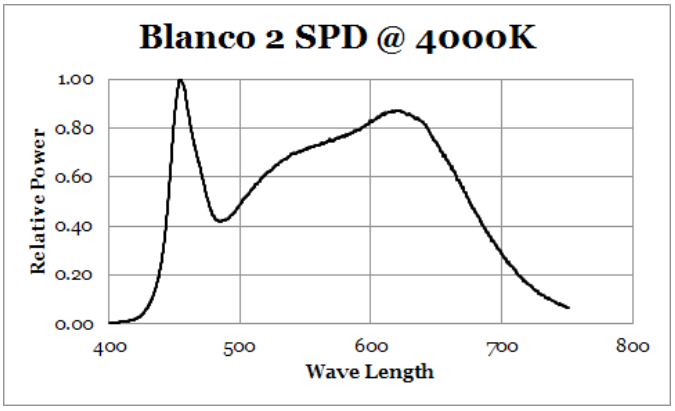
Color tolerance measured in dUV at deferring correlated color temperatures



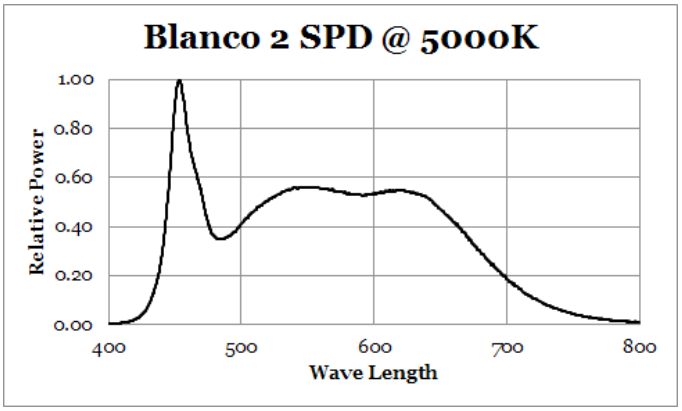
Typical R9 value at deferring correlated color temperatures



Typical spectral power distribution at 2700K



Typical spectral power distribution at 4500K

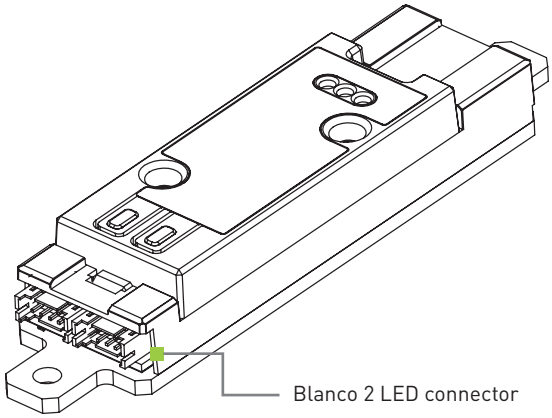


Typical spectral power distribution at 6700K

Specifications

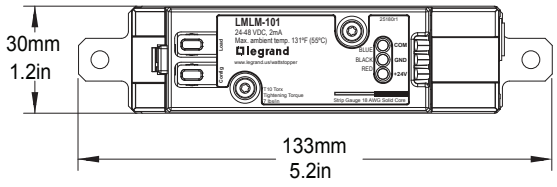
- Input Voltage: 48VDC
- Control Options: Wattstopper DLM
- Nominal Input Power: 20W, 40W, 60W, 75W
- Nominal Input Current: .15A(20W), .3A(40W), .45A(60W), .6A (75W)
- Power Supply Classification: Class 2
- Nominal Output Power: 20W, 40W, 60W, 75W
- Nominal Output Current: 700mA
- UL File Number: E333802
- Five year warranty

Logic Module Connector

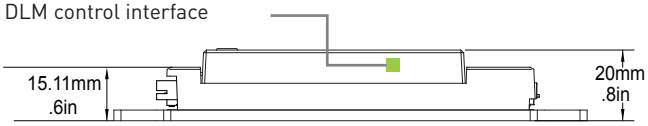


Logic Module Dimensions

Blanco 2 with DLM control interface installed

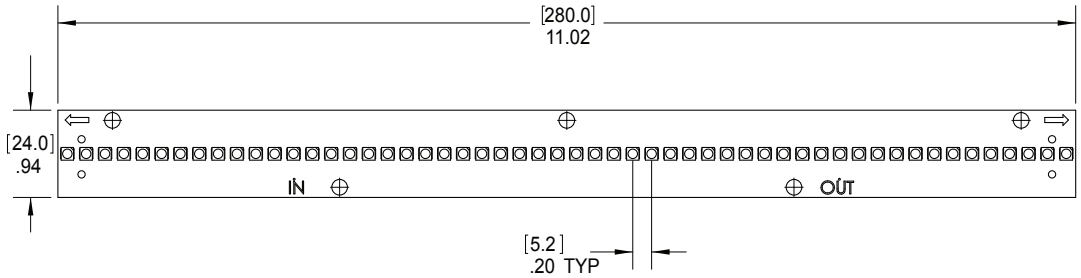


DLM control interface

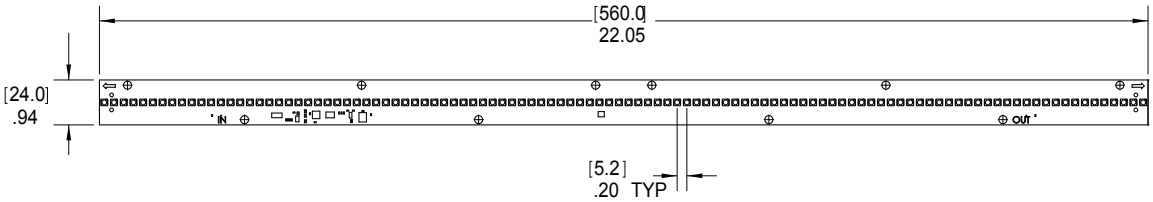


LED Array Dimensions

1 foot Array



2 foot Array



Ordering Information

Catalog #		Description
☐	BLM2-DLM	Blanco 3 Logic Module with DLM Controls Interface
☐	BLM2-2-SAM	2 foot sample kit
☐	BLM2-4-SAM	4 foot sample kit

Note: Additional components required. Please refer to the Blanco Integration Guide or your account manager for details.