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LuxiTune™

Tunable White Light Engines for warm dimming and CCT tuning.
Light is OSRAM

Our Brand
LED ENGIN™

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Introduction to LuxiTune™

LED Engin's LuxiTune™ is a class-leading compact tunable white light engine solution, with two tuning modes - Warm Dimming and CCT Tuning. It enables ultra-precise and easy-to-control CCT tuning and dimming of lights to mimic the tones of white light along the Black Body Curve also known as the Planckian Locus.

Since its release, LuxiTune™ has continued to evolve and deliver technological success which explains why it has gained an exceptional level of industry recognition.

What LuxiTune™ delivers

The LuxiTune™ light engine delivers tunable, almost natural light in a compact single emitter while maintaining color quality and consistency. The color consistency is 2 MacAdam ellipses at 3000K, full brightness and 3 MacAdam ellipses over the operating temperature range. Combined with the benefits of a long and sustained service life, LuxiTune™ provides high lumen density and Lux-on-Target for directional lighting over a range of beam angles.

The light engine supports 0-10V, Casambi BLE mesh, DMX 512A, DMX-RDM and DALI control interfaces, and works with a wide range of commercially available controllers. The light engine is available in different lumen options and delivers flicker-free light with deep dimming to 0.5%. The hardware also comes in two different form factors for integrating in different fixture types.

Award-winning LuxiTune™

LuxiTune™ has received significant international industry acclaim.

The award-winning LuxiTune™, the superior tunable LED solution for light fixtures

Warm Dimming Mode

Now restaurants, hotels, entertainment and cultural venues can showcase themselves in their very best light, whatever the time of day or night.

The LuxiTune™ tunable white light engine provides high quality light as it dims from a bright 3000K to a warm 1800K glow along the Black Body Curve and creates the softer tones of sunrise and sunset.

CCT:

3000K

CCT:

2700K

CCT:

1800K

CCT Tuning Mode

LuxiTune™ offers a Correlated Color Temperature (CCT) tuning function that enables users to independently adjust light intensity and the CCT, between 1800K to 6500K.

The tune curve has been precisely designed to stay a short distance below the Black Body Locus throughout the tuning range,resulting in more vibrant colors.

CCT:
6500K

CCT:
3000K

CCT:
1800K

High CRI color quality

LuxiTune™ emitters maintain a high level of color quality throughout the dimming range, ensuring natural color rendering at all intensity levels.

Between 2700K and 6500K at maximum brightness, LuxiTune™ engines have a CRI of 92. The CRI is 85 or better throughout the Warm Dim range.

Human Centric Lighting

Light is part of our environment and we associate different tones and intensities of light with different functions, time of day and energy levels.

LuxiTune™ offers a range of warm and cool white light settings at different intensities from the same light engine. White light is now truly tunable to the user's needs.

Cool Bright

Warm Bright

Warm Dim

Lux-on-Target™

The compact emitter is coupled with a TIR lens and available in Narrow Flood, Flood and Wide Flood beams.

The TIRs not only control and mix the light, but also shape the beam, delivering the maximum usable light right where you want it with minimal glare.

LZP LuxiTune™ (2000lm) TIR

	Beam Angle	CBCP @3000K, 100% Intensity (Cd)	Dimensions (D x H)
Narrow Flood	21°	7000	84 x 50mm
Flood	36°	3750	84 x 50mm
Wide Flood	45°	2500	84 x 50mm

LZC LuxiTune™ (1100lm) TIR

	Beam Angle	CBCP @3000K, 100% Intensity (Cd)	Dimensions (D x H)
Narrow Flood	24°	2700	47 x 25mm
Flood	34°	1500	47 x 25mm
Wide Flood	45°	1250	47 x 25mm

Easy and adaptable installation

LuxiTune™ uses sophisticated hardware and software configurations that provide pre-programmed warm dimming and also adapt easily to other dimming and tuning profiles. The modular design of the control interfaces makes it easy to add a new wireless interface for emerging lighting control protocols such as ZigBee, Thread, BLE SIG etc. as lighting industry IoT choices expand.

All the customer needs to supply is a DC power supply and a standard dimming controller for the chosen control protocol such as 0-10V, DMX 512A, DMX-RDM or DALI DT8. With Casambi BLE mesh, light engines can be controlled with Casambi app from a mobile device allowing automated fade scenes for multiple zones.

LuxiTune™ Key Features

- Pre-set warm dimming and CCT tuning profiles that track the Black Body Locus
- DMX 512A, DMX-RDM and DALI DT8 digital control
- Wireless, Bluetooth® LE Mesh and ZigBee controls
- Excellent color performance & stability
- Small LES and compact form factor enable narrow beam angle directional luminaires
- Smooth dimming from 100% to 0.5%
- Integrated thermal protection
- Suitable for video filming and other flicker-sensitive applications
- Dims with off-the-shelf 0-10V controllers
- Compatible with standard off-the-shelf DC power supply
- CE certified & designed to UL guidelines

LuxiTune™ Tunable White Light Engine

***Luminous flux at 3000K,TC = 65°C**	(800lm) / 1100 lm / 2000 lm
***Light engine efficiency at 3000K,TC = 65°C**	(731lm/W); 63lm / W; 63lm / W
Typical power consumption at 3000K,TC = 65°C	(11W) /17W / 35W

CCT RANGE

Warm dim mode	3000K - 1800K
CCT tune mode	6500K - 1800K
CRI@3000K, full intensity	92
Colour consistency over dimming range & operating temperature	3.0 SDCM
Colour consistency at 3000K, 100% intensity	2.0 SDCM

* based on output from TIR
MOQ based availability of 800lm version (shown in brackets)

Warm dimming from 3000K to 1800K

Precise color tuning below Black Body Locus

High CRI over tunable range

Excellent color quality

R_f	90
R_g	105
CCT (K)	2901
D_{uv}	-0.003
x	0.4389
y	0.3960
CIE R_6	93

Spectral power distribution comparison

Color vector graphic

Color distortion graphic

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