Dim-to-Dusk LED Flexible Strip

Features

- Extreme human circadian efficiency
- Ultra-smooth regulation for dimming to Warm (<1300K)
- Consistent and precise color
- 24V DC, 168 LEDs per meter, can be cut every 12 LEDs (71.4mm)
- 5000mm (length) × 10mm (width) IP20
- Improved adhesive backing for easy installation

IP20

Get Quotation

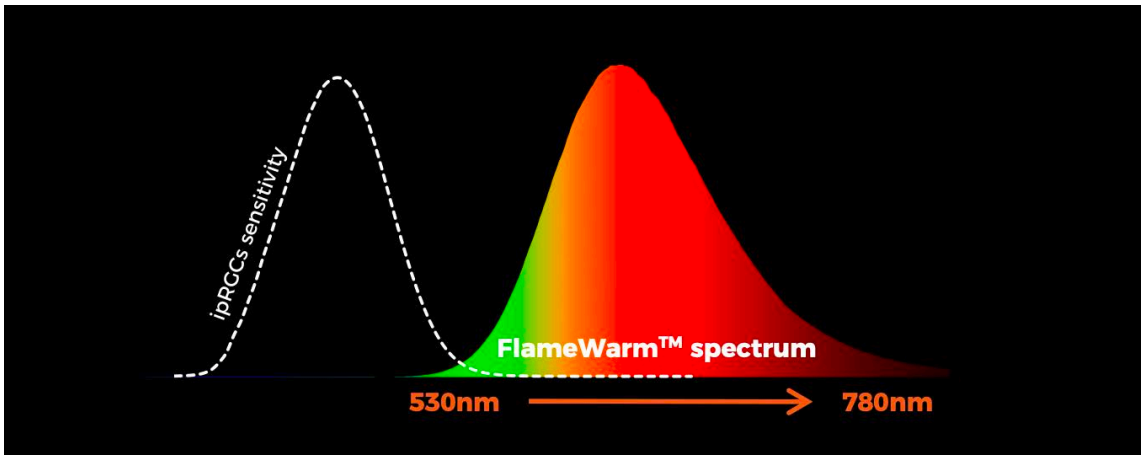
the photon melatonin inside the spectrum

Dim-to-Dusk LED-Strip is improved version of our regular Dim-to-Warm LED-Strip. It apply LED-CCT between 1300K to 3000K for achieving the extreme effect for cozy and relax lighting based on the circadian rhythm regulation theory, it is the light you can see by your eyes but it never “wakes up” your brain.

Reduce blue light

The broad-band design of the Dim-to-Dusk spectrum covers from 530nm to 780nm containing green, yellow, orange and deep-red wavelengths and reduces the blue light significantly which eliminates the risk of blue light hazard essentially.

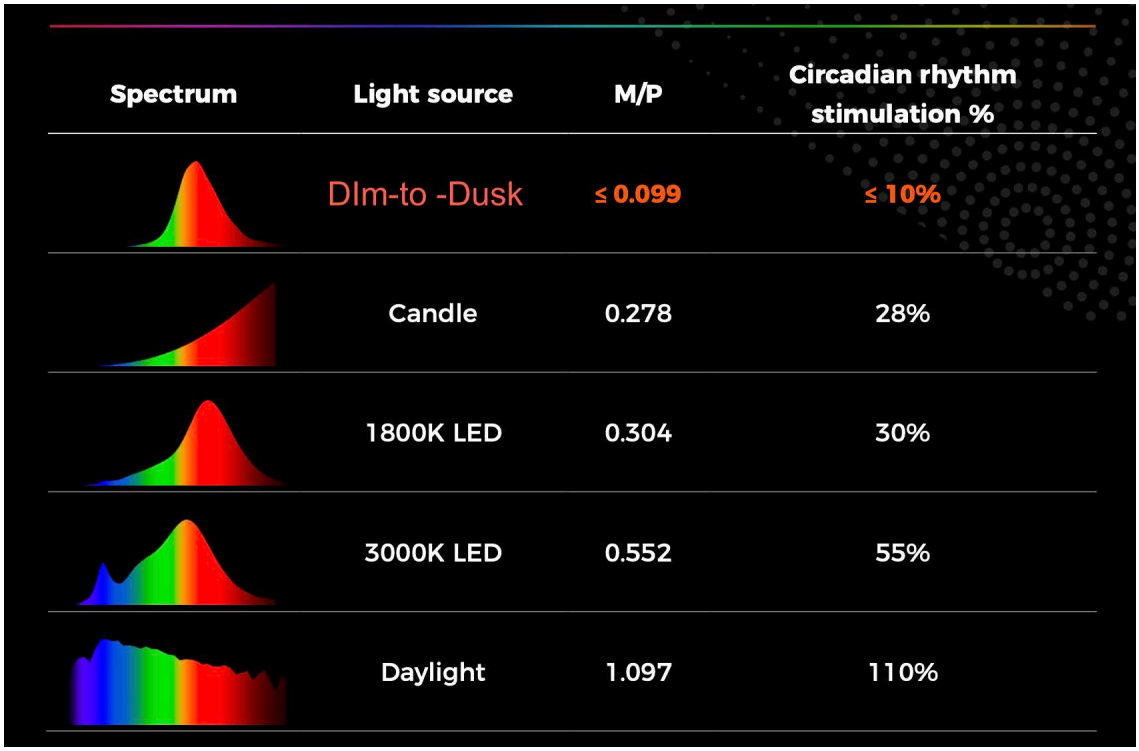
SPECIFICATION SHEET 2.0.7
Specification subject to change without notice



Melanopic/Photopic* matters ≤ 0.099

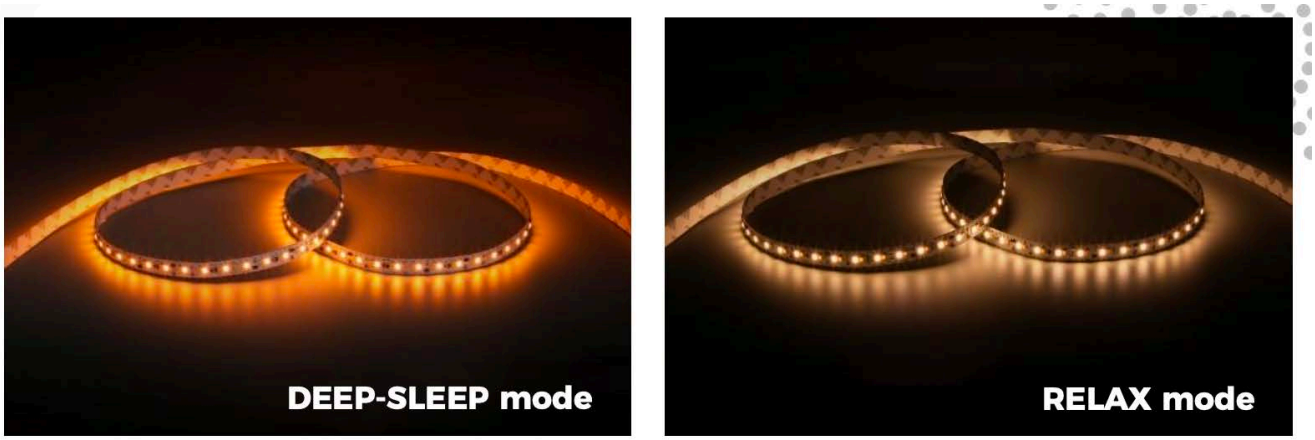
The Melanopic/Photopic (M/P) ratio measures the stimulative or suppressive of melatonin secretion from a light. M/P ratio is a scientific and objective index to evaluate if your light holds back or helps with your relaxation. With the FlameWarm™ technology we successfully achieve the M/P ratio down to 0.099 - even much lower than a candle, bringing the incomparable effect of super-low circadian rhythm stimulation than any light in the world – whatever the natural light or artificial light.

Compliant to **CIE S 026/E:2018: CIE System for Metrology of Optical Radiation for ipRGC-Influenced Responses to Light.*



Scientific color design of Dim-to-Dusk

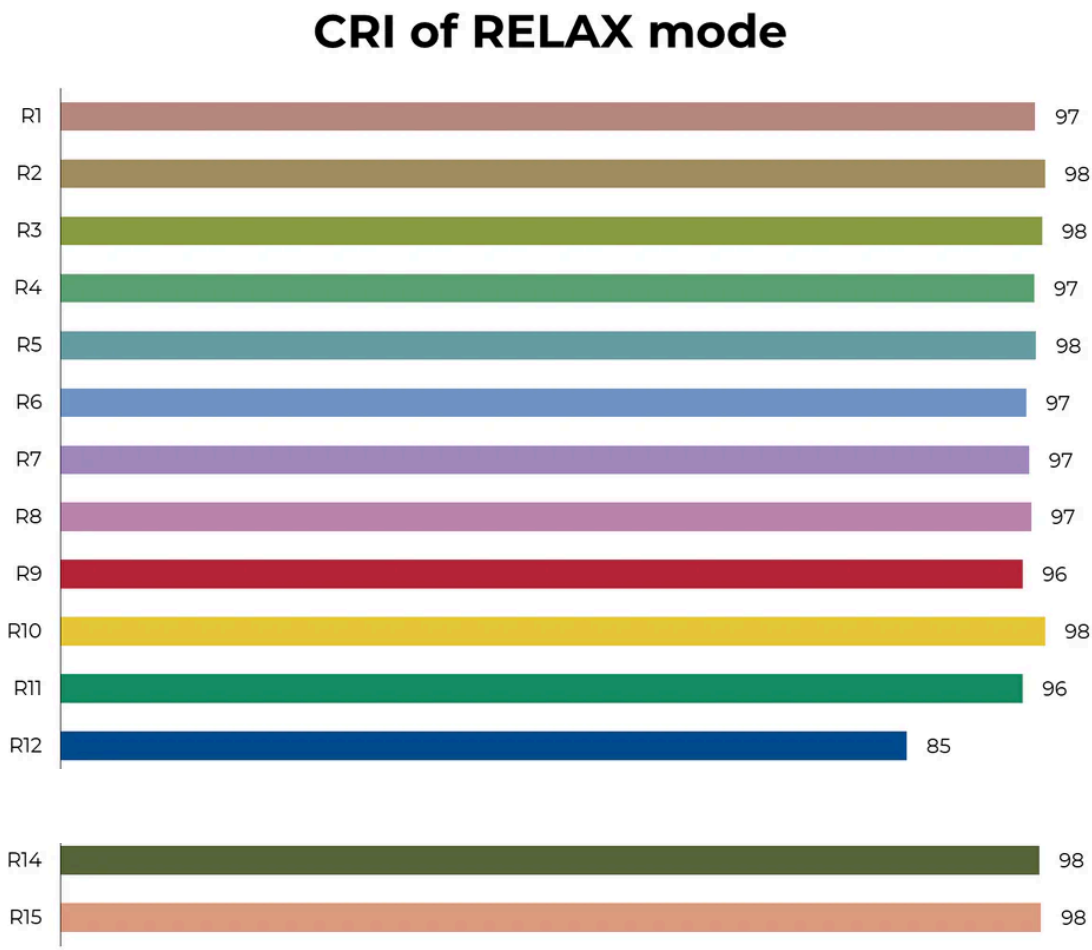
The color of light is relevant to the vision and psychology every much. During the experiments of the simulated color, we picked carefully the most rational dominant wavelength, making the light natural and comfortable. Peaked at 600nm, typical correlated color temperature of 1250K (for reference only) and the 16-digital color is #FF5A00, or is similar to PANTONE 16-1358 TCX Orange Tiger.



This unique Dim-to-Dusk LED solution is a specially designed tunable LED with optimized dimming process, and it is applied as a flexible strip to achieve the full compatibility for different lighting environments.

DEEP-SLEEP mode:

When activating the DEEP-SLEEP mode, the Dim-to-Dusk LED-strip create an extremely dimmed and relieved lighting environment, which is the most ideal night light for pre-sleep or even already deep sleep status.



RELAX mode: 98 CRI grade of full spectrum quality LED

When activating the RELAX mode, the 98-CRI LEDs in every meter will starting to work alternately to create the bright, excellent color quality and healthy light at 3000K as the incandescent lighting quality.

Specs

Electrical-optical characteristics (TA = 25°C, 24V DC)

PARAMETER	DEEP-SLEEP	RELAX
Power per meter(1)	—	16.8
CCT	1250K()	3000K
Luminous flux per meter	80lm	1200lm

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M/P ratio (M-EER) (3)	0.099	0.571
M-DER(3)	0.084	0.519
CRI	—	98
CRI R9	—	90

Reference

(1)Unless otherwise noted, specifications are based on a 1 meter segment. Due to electrical resistance, power draw per meter decreases approximately b

additional meter increase per segment.

(2)Only for reference.

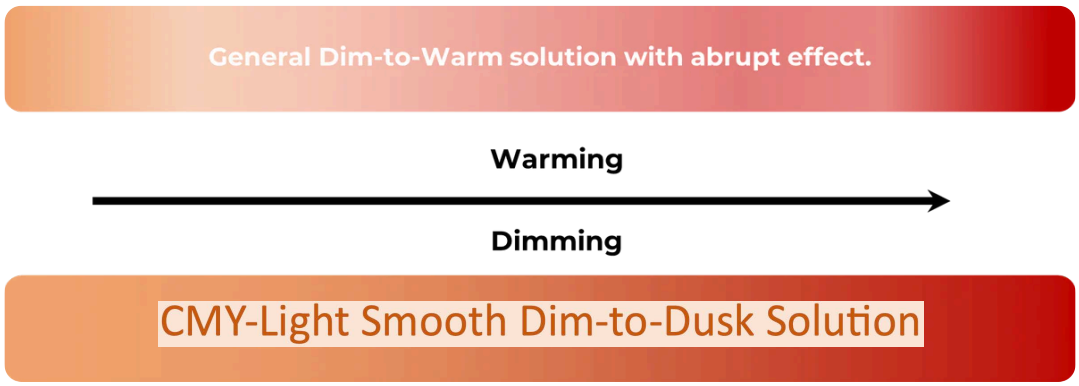
(3)M/P ratio (Melanopic/Photopic ratio) - also known as M-EER (Melanopic EqualEnergy Efficacy Ratio) and M-DER (Melanopic Daylight Efficacy Ratio) a

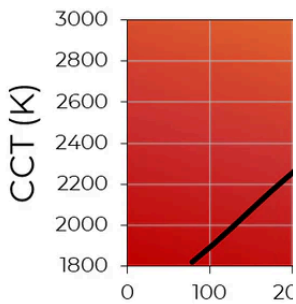
CIE S 026/E:2018.

Unique dimming method for ultra-smooth regulation

Unlike a standard bi-color LED strip, this Dim-to-Dusk LED strip simplifies the connection and control as only one pair of positive/negative anodes of 2-pin design with the help of high precision transistors. Thus it can be controlled by a standard driver but both brightness and color adjustments are achieved simultaneously.

In addition, with the optimized method, the dimming from the RELAX to DEEP-SLEEP mode performs ultra-smooth, which does not bring any abrupt effect compared to a general Dim-to-warm product on the market. Dim-to-Dusk makes the whole dimming process naturally.





This Dim-to-Dusk strip has also optimized in designs including introducing 3oz copper electrodes, 1% accuracy resistors, high precision transistors and 0.4mm spacing between neighboring emitters in a pair, which eliminates the visible light spots during the dimming process, and a variety of PWM compatible controlling units of DALI, TRIAC, or 0/1-10V dimmers.

Related to

Dim-to-Dusk

Ø 75mm (7-watt)
Dim-to-Dusk Downlight

Ø 90mm (12-watt)
Dim-to-Dusk Downlight

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