


VERGUNNING VERLEEND

 Zirgle LuxaLight®

LS24RGBWW84TM1824ILX - datasheet, version: 2026-04-16.4

LuxaLight Pixel LED-strip TM1824 Digital RGB + Warm White High Power Indoor (24 Volt, 84 LEDs, 5050, IP20)

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benoort bij besluit van burgemeester en
wethouders,

Zaaknummer: EHV-ZP2026-004523

Besluitnummer: EHV-DP2026-094825

Datum : 8 juni 2026

Datasheet

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Product description

This **LuxaLight professional digital LED strip** is designed for applications where flexible, customized lighting is required, with a high level of control over each individual LED pixel. The strip consists of 14 segments, each equipped with 6 RGBW LEDs, and utilizes TM1824 ICs for advanced control and color management. The LED strip has an IP20 rating, making it suitable for indoor applications and applicable in dry environments. Additionally, the IC High PWM rate allows for filming these pixels with cameras up to 33fps, ensuring smooth recording and accurate visual performance.

LED Strip Configuration

- **Number of segments:** 14
- **Number of LEDs per segment:** 6 RGBW LEDs
- **Total LEDs on the strip:** 84 RGBW LEDs (14 segments x 6 LEDs per segment)
- **Adhesive:** The strip is equipped with 4905 VHB (Very High Bond) tape, ensuring strong and durable adhesion to various surfaces.
- **PCB thickness:** The PCB has a thickness of 3 oz/ft², providing robust support and efficient heat dissipation.
- **IP20 Rating:** The strip is designed for indoor applications and applicable in dry environments.

TM1824 IC

The LED strip uses the TM1824 IC for each LED segment. The TM1824 is an advanced controller that provides PWM dimming (pulse width modulation) for the RGBW LEDs. This allows for very smooth and precise color range and brightness control.

Key features of the TM1824 IC:

- **Pixel addressing:** Each segment can be controlled individually.
- **Color management:** Supports RGBW LEDs, ensuring optimized color rendering.
- **Communication:** The IC uses a serial data interface, where data is passed from the first to the last IC, enabling the integration of long chains of LED strips.
- **Stability and performance:** The IC is designed to operate with a wide voltage range, ensuring stability under various conditions.
- **High PWM rate:** The IC's high PWM rate allows for smooth pixel filming with cameras up to 33fps, providing clear and precise video recording of the LED strip.

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benoort bij besluit van burgemeester en wethouders, LuxaLight® RGB LED strip 24V 1824 Digital RGB + Warm White High Power Indoor (24 Volt, 84 LEDs, 5050, IP20)

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Technical specifications

General															
Brand	LuxaLight														
LEDs / meter	84														
LEDs per pixel	6														
LED type	5050														
Length per reel	10 m														
Length per segment	71.43 mm														
LED strip width	12.00 mm														
LED strip thickness	4.00 mm														
PCB color	White														
Dimensions	10.000 × 12 × 4 m														
Mounting	3M tape VHB4905														
Lifetime	50000 hours														
Lighting															
Light color	RGB + warm white														
Color temperature warm white	2500 K														
CRI	≥ 80														
Luminous Flux	1428 lm														
Luminous flux red	168 lm														
Luminous flux green	553 lm														
Luminous flux blue	110 lm														
Luminous flux warm white	597 lm														
Wave length Red	620~630 nm														
Wave length Green	510~525 nm														
Wave length Blue	455~470 nm														
Beam angle	120 °														
Measurement results															
Channels	Red Green Blue Warm White														
Channel: Red															
Peak wavelength (Object size: 1 piece)	632 nm														
Illuminance (Lux) (Object size: 1 piece)	<table><thead><tr><th></th><th>24V</th></tr></thead><tbody><tr><td>5cm</td><td>1127 lx</td></tr><tr><td>10cm</td><td>477.2 lx</td></tr><tr><td>15cm</td><td>270.5 lx</td></tr><tr><td>20cm</td><td>172 lx</td></tr><tr><td>25cm</td><td>128.7 lx</td></tr><tr><td>30cm</td><td>100.9 lx</td></tr></tbody></table>		24V	5cm	1127 lx	10cm	477.2 lx	15cm	270.5 lx	20cm	172 lx	25cm	128.7 lx	30cm	100.9 lx
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wethouders,

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Channel: Green

Peak wavelength 520 nm
(Object size: 1 piece)

Illuminance (Lux)
(Object size: 1 piece)

	24V
5cm	3119 lx
10cm	1314 lx
15cm	747.1 lx
20cm	478.9 lx
25cm	345.1 lx
30cm	264.2 lx

Channel: Blue

Peak wavelength 462 nm
(Object size: 1 piece)

Illuminance (Lux)
(Object size: 1 piece)

	24V
5cm	690.5 lx
10cm	291.3 lx
15cm	165.9 lx
20cm	103.9 lx
25cm	77.79 lx
30cm	63.98 lx

Channel: Warm White

CRI 84
(Object size: 1 piece)

CCT 2363 K
(Object size: 1 piece)

Illuminance (Lux)
(Object size: 1 piece)

	24V
5cm	3622 lx
10cm	1563 lx
15cm	898.1 lx
20cm	576.8 lx
25cm	411 lx
30cm	319.9 lx

Electronics

Working voltage 24V

Current / meter 1.21 A / meter

Power consumption per meter 29.00 W / meter

PCB material Copper

Pinout

Symbol	Function
V+	V+
GND	Ground
D1	Data in

Control

Number of channels 4

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benoort bij besluit van burgemeester en wethouders, LuxaLight RGBWW LED strip TM1824 Digital RGB + Warm White High Power Indoor (24 Volt, 84 LEDs, 5050, IP20)

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wethouders,

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IC type TM1824

Environmental

Operating temperature -25 ~ +70 °C

Storage temperature -20 ~ +60 °C

IP class IP 20

Directives - standards - certificates

Directives RoHS
CE

Safety standards EN60598-1
EN62031
IEC62471

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benoort bij besluit van burgemeester en wethouders, LuxaLight® LED strip, 24V 1824 Digital RGB + Warm White High Power Indoor (24 Volt, 84 LEDs, 5050, IP20)

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wethouders,

Zaaknummer: EHV-ZP2026-004523

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Measurement results

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benoort bij besluit van burgemeester en wethouders, LS24RGBWW84TM1824 Digital RGB + Warm White High Power Indoor (24 Volt, 84 LEDs, 5050, IP20)

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wethouders,

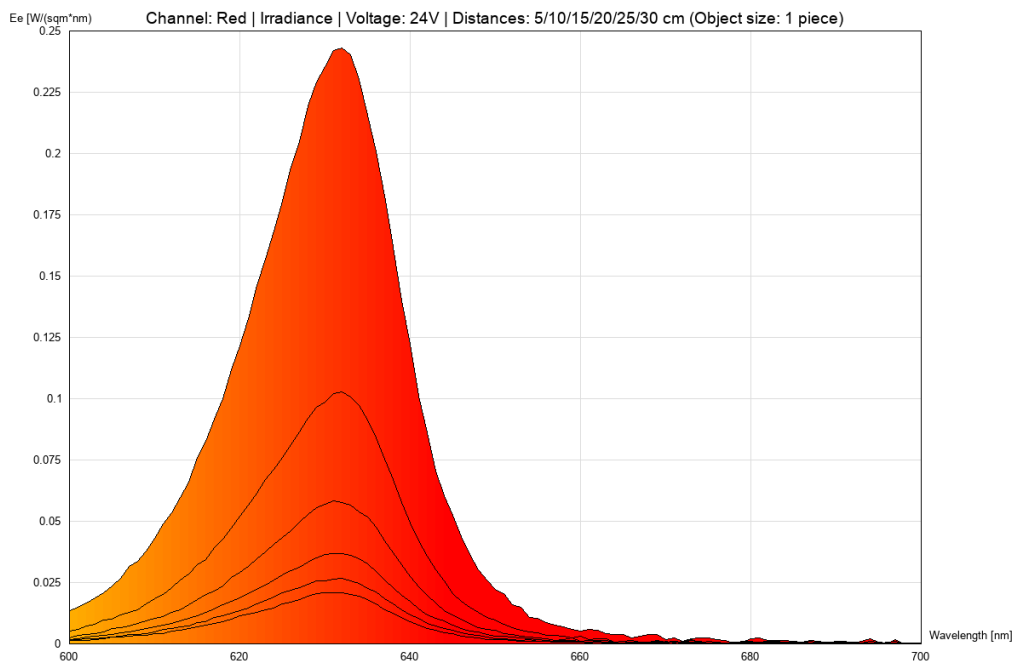
Zaaknummer: EHV-ZP2026-004523

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CHANNEL: Red

irradiance - 600-700-red (24V)



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benoort bij besluit van burgemeester en wethouders, LuxaLight B.V. LED strip 1824 Digital RGB + Warm White High Power Indoor (24 Volt, 84 LEDs, 5050, IP20)

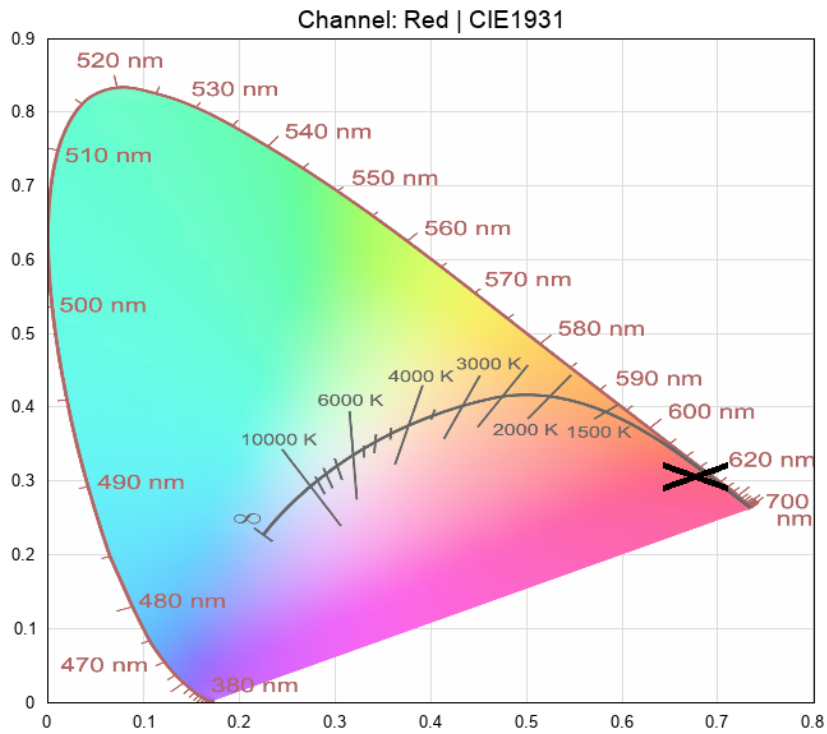
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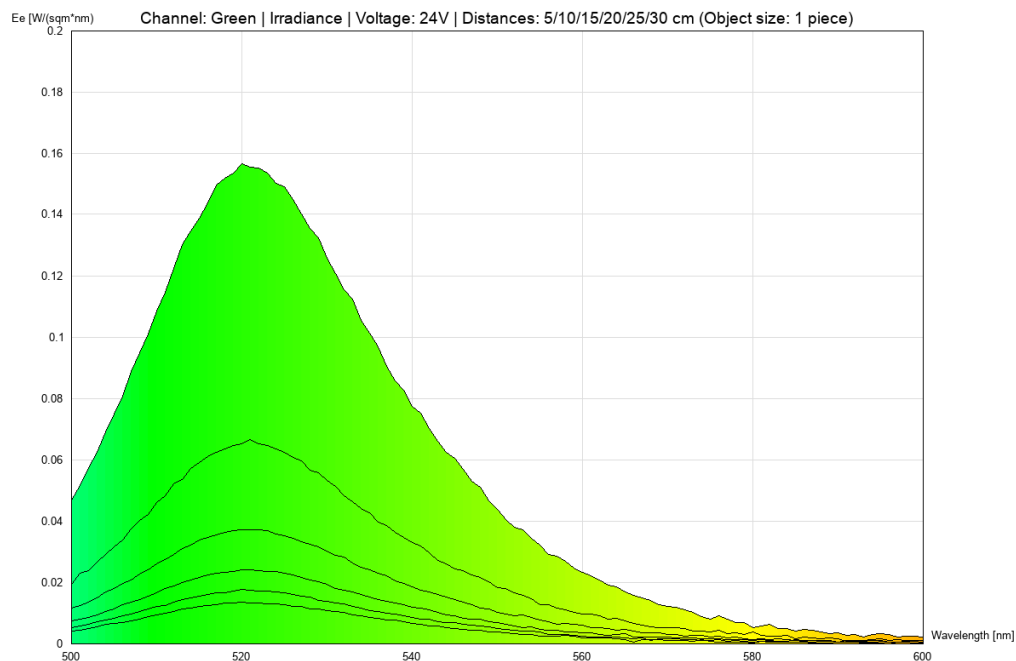
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Zirgle LuxaLight® LS24RGBWW84TM1824ILX - datasheet, version: 2026-04-16.4
behoort bij besluit van burgemeester en wethouders, LuxaLight Digital RGB + Warm White High Power Indoor (24 Volt, 84 LEDs, 5050, IP20)

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CHANNEL: Green

irradiance - 500-600-green (24V)



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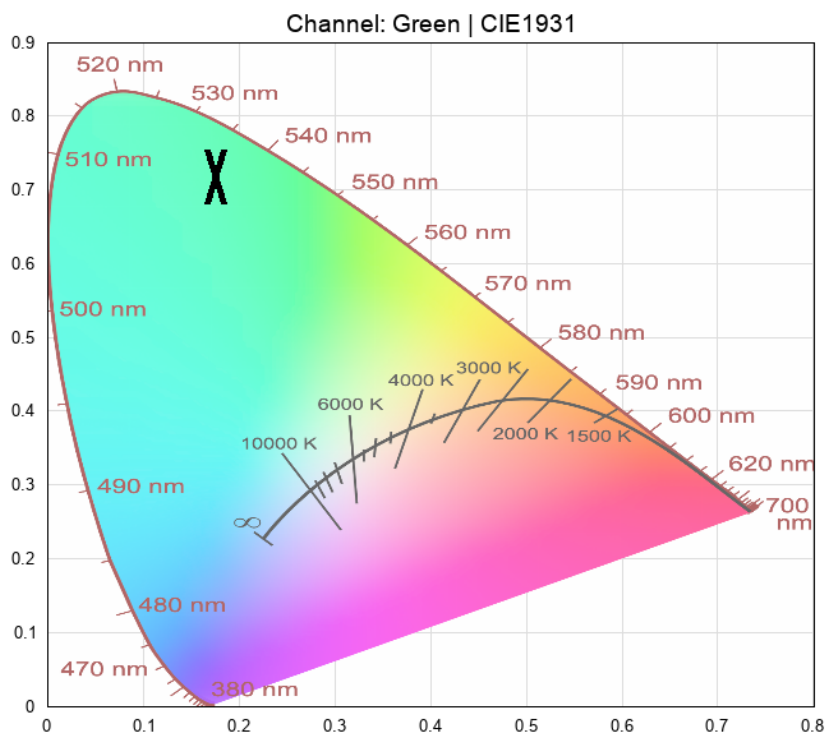
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benoort bij besluit van burgemeester en wethouders, LuxaLight Blue LED strip 1824 Digital RGB + Warm White High Power Indoor (24 Volt, 84 LEDs, 5050, IP20)

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wethouders,

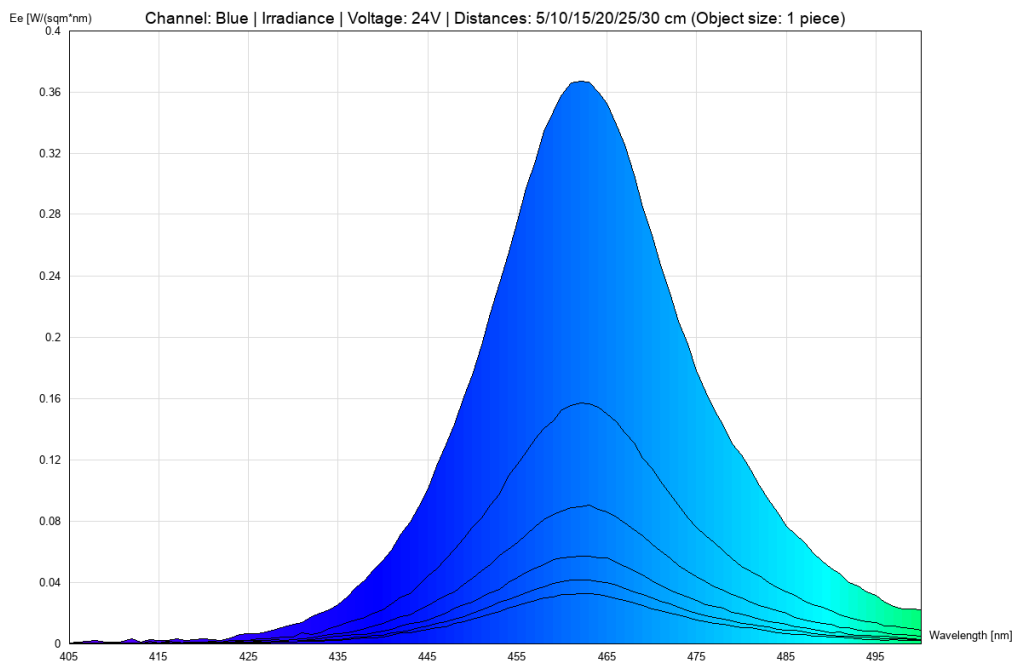
Zaaknummer: EHV-ZP2026-004523

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CHANNEL: Blue

irradiance - 405-500-blue (24V)



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benoort bij besluit van burgemeester en wethouders, LuxaLight B.V. LED strip 1824 Digital RGB + Warm White High Power Indoor (24 Volt, 84 LEDs, 5050, IP20)

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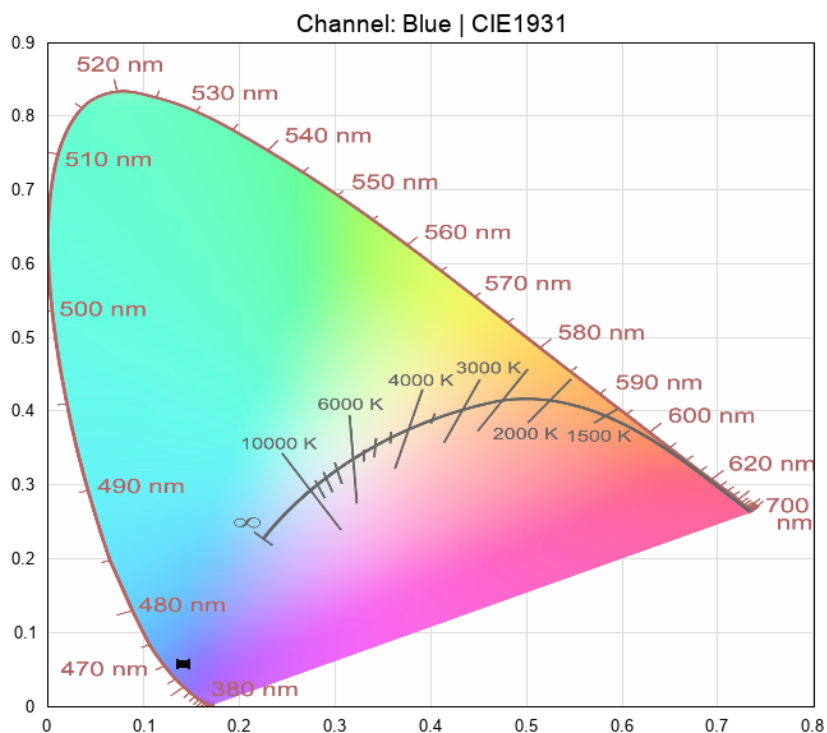
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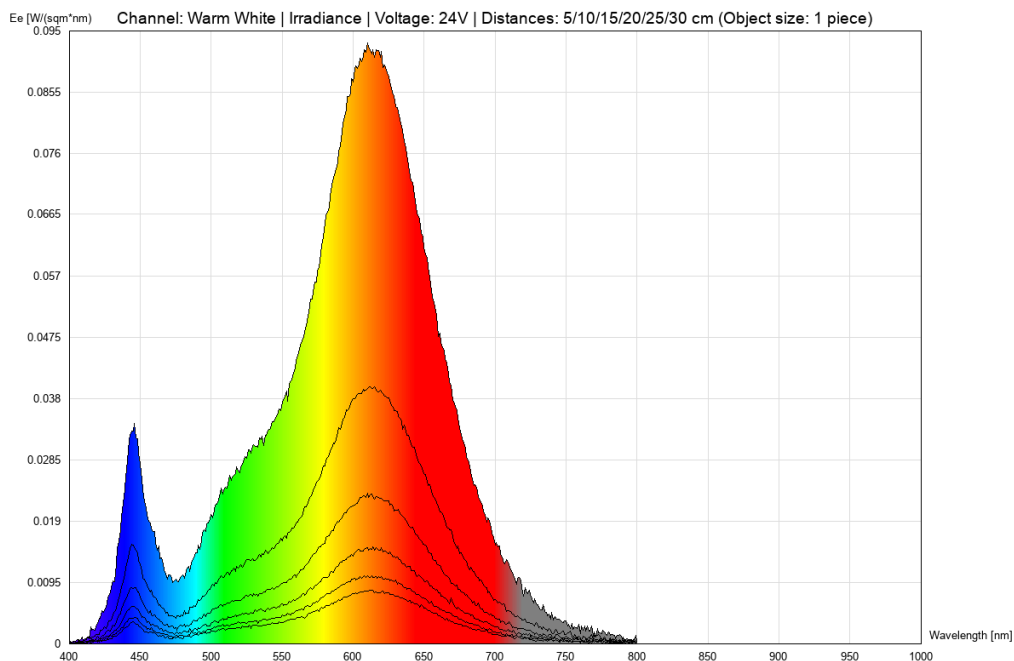
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CHANNEL: Warm White

irradiance - full-spectrum (24V)



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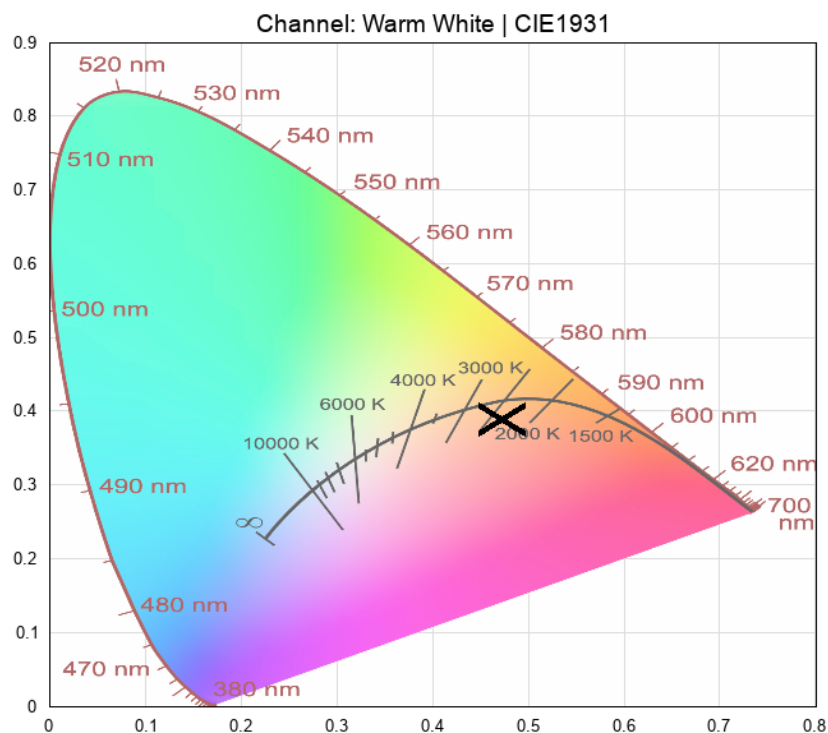
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