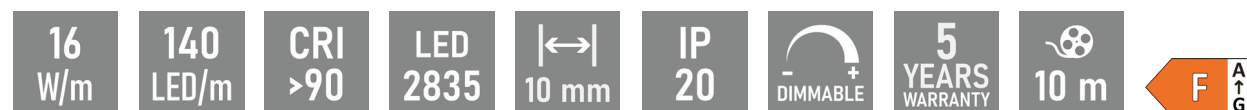
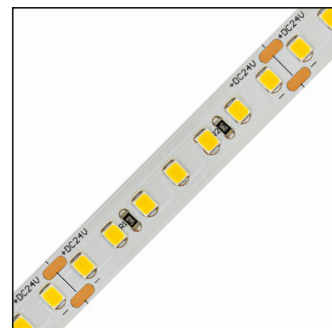





# LED strip iHome Brilliant 140 16W 24V IP20



- ✓ The iHome series has been developed with premium interior lighting in mind.
- ✓ The Brilliant version with CRI>90 guarantees precise color reproduction and a brilliant aesthetic experience.
- ✓ High-quality illumination with a low percentage of unwanted blue light.
- ✓ Excellent brightness up to 1,900 lm/m, high diode density of 140 LED/m.
- ✓ High efficacy, long lifetime and low operating costs.
- ✓ Very long power line up to 6 m from a single point.
- ✓ Suitable for homes and apartments, professional applications, smart home projects and production of linear lighting.
- ✓ Ideal for illuminating food and retail, salons, beauty counters, jewellery, designer stores, galleries and other areas where a perfect visual impression is essential.
- ✓ Appropriate for both direct and indirect lighting and for creating continuous lines of light.
- ✓ Five years warranty.



## COLOR TEMPERATURE VARIANTS\*

Color temperature	Luminous flux <sup>1</sup>	Luminous efficacy <sup>2</sup>	Blue spectrum <sup>3</sup>	Energy eff. class	Order code
2700 K 	1660 lm/m	104 lm/W	9.3 %	F	10001638
3000 K 	1790 lm/m	112 lm/W	12.9 %	F	10001640
4000 K 	1900 lm/m	119 lm/W	20.8 %	F	10001641

\*The list is not comprehensive. We also produce custom variants. For more information, please contact us at [info@tron.cz](mailto:info@tron.cz)

<sup>1</sup> Luminous flux tolerance -10/+20 %. Value at tc=25°C.

<sup>2</sup> Luminous efficacy tolerance -10/+20 %. Value at tc=25°C.

<sup>3</sup> Proportion of 380-480 nm wavelength light. Blue spectrum tolerance ±10 %. Value at tc=25°C.

## PRODUCT SPECIFICATIONS

Power supply	24 V DC	Maximum line length <sup>6</sup>	6 m
Power <sup>4</sup>	16 W/m	Protection	IP20
LED density	140 LED/m	Max. temperature at tc	v85 °C
LED package	2835	Ambient temperature	-35 to +50 °C
Color consistency	3 SDCM	Storage temperature	-25 to +40 °C
CRI <sup>5</sup>	>90	Dimmable	YES
Beam angle	120°	Lifespan L80B50 <sup>7</sup>	>54,000 h
Light direction	TOP	Warranty	5 years
Single module	7 LED	Copper thickness top/bottom	35/70 µm
Single module length	50 mm	Thermal conductive tape	3M 9495LE
Width	10 mm	Surface color	white
Height	2 mm	Length (packaging)	10 m

<sup>4</sup> Power tolerance ±10 %. Value at tc=25°C.

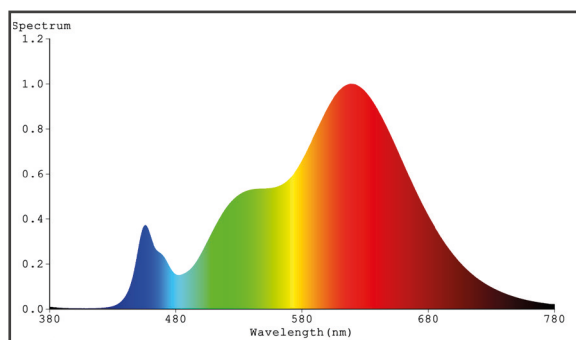
<sup>5</sup> CRI tolerance ±2 %. Value at tc=25°C.

<sup>6</sup> Maximum length at which brightness difference between the start and the end of the line does not exceed 20%.

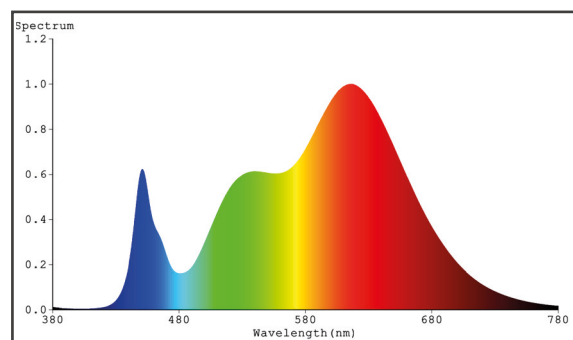
<sup>7</sup> Value at tc=85°C and I=60mA.



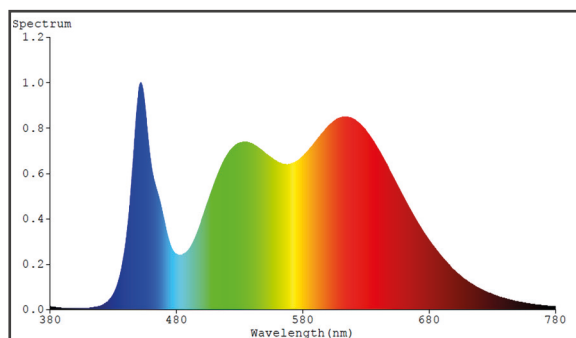
## NORMALISED SPECTRAL DISTRIBUTION



● 2700 K, CRI > 90



● 3000 K, CRI > 90



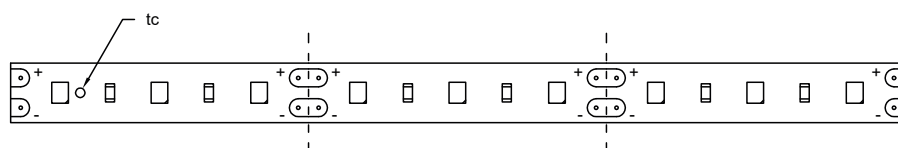
○ 4000 K, CRI > 90

## CHROMATICITY REGION AND COORDINATES

CCT	MacAdam	CIE $x^*$	CIE $y^*$
2700 K	3 SDCM	0.464	0.417
3000 K	3 SDCM	0.434	0.400
4000 K	3 SDCM	0.381	0.380

\* Tolerance  $\pm 0.01$ . Value at  $t_c=25^\circ\text{C}$ .

## TESTING POINT $t_c$



The testing point  $t_c$  is always located next to the the first LED on the strip (the picture is illustrative only).

**We are ready to help you!**

Mo-Fr, 8:00-16:00

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