

127-129 CW specific configuration

LED strip | COB 576LED/m | 15W/m | IP20 | TW 2200~6000K

Introduction

Purpose of this Document

This document provides information for 127-129 CW. During measurement, the product is used in a different mode where output power, colour temperature and/or beam angle are changed from factory standard. These adjustments can be made without altering the product and are designed to be set by the installer. In most cases, the options are set through switches on the product.

Results

Total input power	8.4 W
Correlated Colour Temperature	6552 K
Total lumen output	742 lm
Efficiency	88 lm/W

Electrical measurement details

Input Power

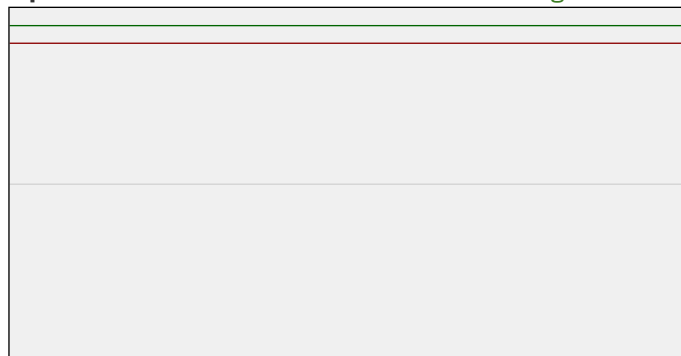
RMS Input voltage feed. V_{RMS}	24.0 V
RMS Input current feed. I_{RMS}	0.351 A
Total input power	8.4 W

Frequency of input power	0 Hz
Power factor	1.0
Displacement power factor	0.7

Total harmonic distortion of the current	0%
Total harmonic distortion of the voltage	0%

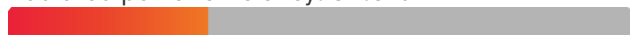
Input Power Curve

Voltage - Current



Efficiency

Radiated power efficiency: 32.5%



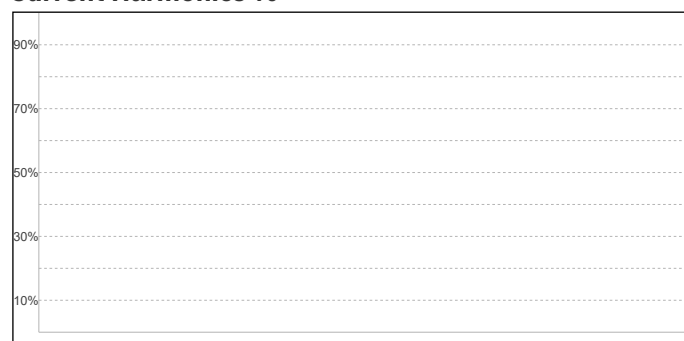
Lumen efficiency: 88 lm/W



Harmonics

3rd Harmonic	n/a
5th Harmonic	n/a
7th Harmonic	n/a
9th Harmonic	n/a
11th Harmonic	n/a

Current Harmonics %



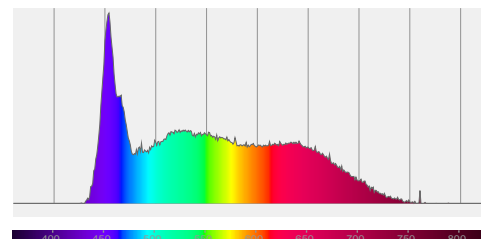
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Colour measurement details

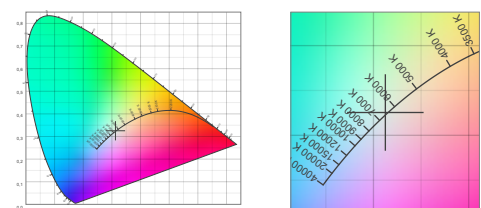
Total lumen output 742 lm
 Correlated Colour Temperature 6552 K
 Colour coordinates CIE 1931 (x;y) = (0.312;0.325)
 Colour deviation from BBL Duv = 0.0015

TM30-18 Colour Fidelity Index R_f 89.5
 TM30-18 Colour Gamut Index R_g 98.3
 Colour Rendering Index (Ra) CRI 95.7
 Colour Rendering Index. (red component) $R_9 = 89.5$

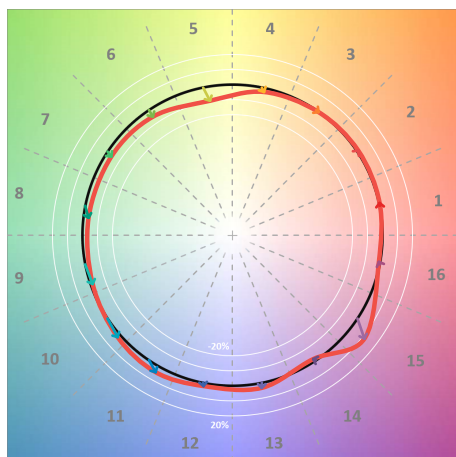
Colour Quality Scale CQS = 92.7
 Television Lighting Consistency Index TLCI = 96



Relative spectral power distribution



TM30 details

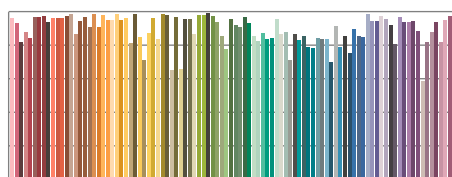


TM30 Colour vectors per hue bin

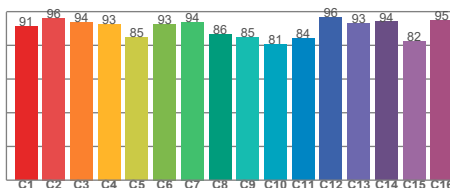


TM30 Colour distortion

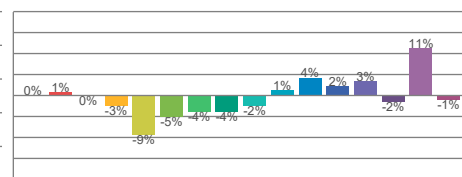
Hue Bin	R_f	Shifts (%)	
		Chroma	Hue
C1	91	0%	2%
C2	96	1%	0%
C3	94	0%	-2%
C4	93	-3%	-2%
C5	85	-9%	-3%
C6	93	-5%	0%
C7	94	-4%	1%
C8	86	-4%	7%
C9	85	-2%	14%
C10	81	1%	14%
C11	84	4%	8%
C12	96	2%	1%
C13	93	3%	-1%
C14	94	-2%	-1%
C15	82	11%	-9%
C16	95	-1%	1%



TM30-18 R_f -values per reference colour

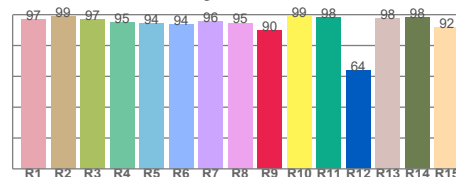


TM30-18 R_f -values per hue bin

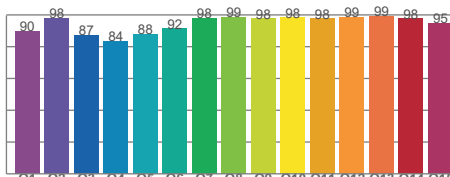


TM30 Chroma shift

Colour Quality details



Colour Rendering Index



Colour Quality Scale