

127-213 RGBW specific configuration

LED strip | COB 840LED/m | 16W/m | IP67 | RGBW (2700K)

Introduction

Purpose of this Document

This document provides information for 127-213 RGBW. 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	16.6 W
Correlated Colour Temperature	9084 K
Total lumen output	937 lm
Efficiency	57 lm/W

Electrical measurement details

Input Power

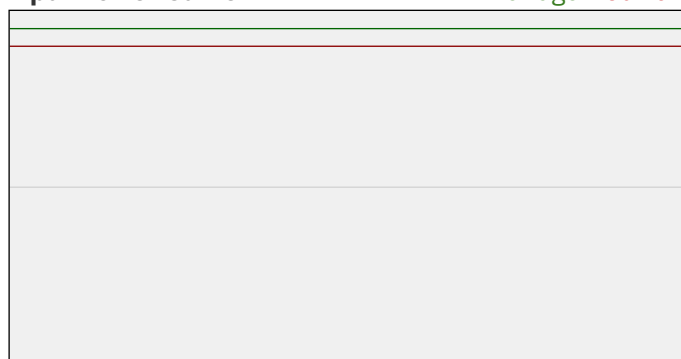
RMS Input voltage feed. V_{RMS}	24.0 V
RMS Input current feed. I_{RMS}	0.690 A
Total input power	16.6 W

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

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

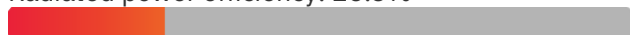
Input Power Curve

Voltage - Current



Efficiency

Radiated power efficiency: 25.3%



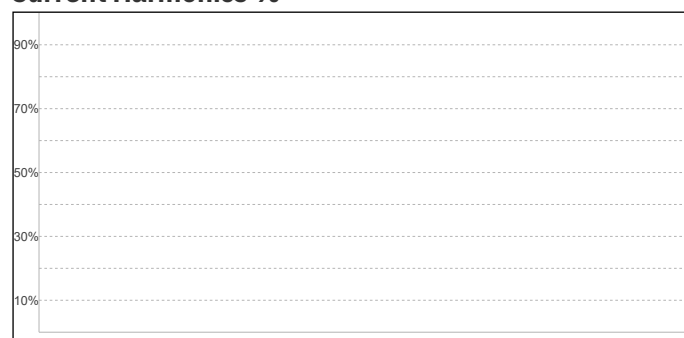
Lumen efficiency: 57 lm/W



Harmonics

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

Current Harmonics %



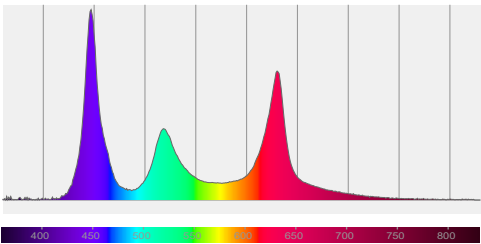


127-213 RGBW specific configuration
 Colour measurement details

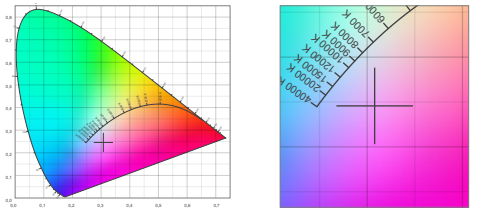
Total lumen output 937 lm
 Correlated Colour Temperature 9084 K
 Colour coordinates CIE 1931 (x;y) = (0.308;0.246)
 Colour deviation from BBL Duv = -0.0439

TM30-18 Colour Fidelity Index R_f 0.0
 TM30-18 Colour Gamut Index R_g NaN
 Colour Rendering Index (Ra) CRI 30.4
 Colour Rendering Index. (red component) $R_9 = -200.1$

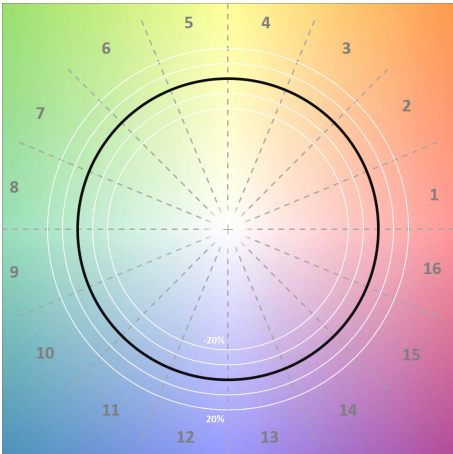
Colour Quality Scale CQS = 74.7
 Television Lighting Consistency Index TLCI = 42



Relative spectral power distribution



TM30 details

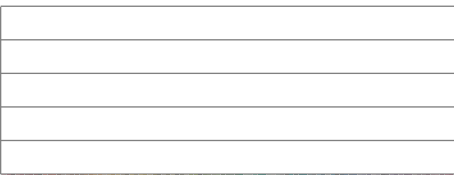


TM30 Colour vectors per hue bin

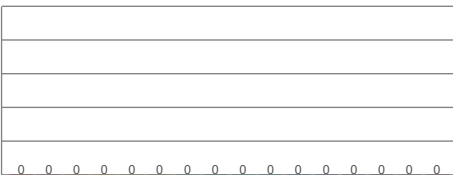


TM30 Colour distortion

Hue Bin	R_i	Shifts (%)	
		Chroma	Hue
C1	0	0%	0%
C2	0	0%	0%
C3	0	0%	0%
C4	0	0%	0%
C5	0	0%	0%
C6	0	0%	0%
C7	0	0%	0%
C8	0	0%	0%
C9	0	0%	0%
C10	0	0%	0%
C11	0	0%	0%
C12	0	0%	0%
C13	0	0%	0%
C14	0	0%	0%
C15	0	0%	0%
C16	0	0%	0%



TM30-18 R_f -values per reference colour

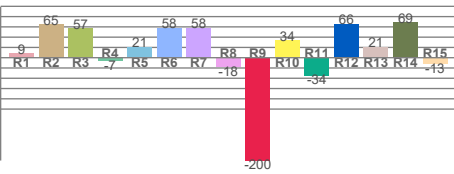


TM30-18 R_f -values per hue bin

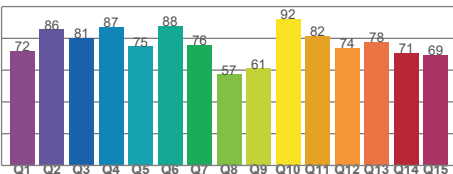


TM30 Chroma shift

Colour Quality details



Colour Rendering Index



Colour Quality Scale