

136-810 6500K specific configuration
Spot | Ø82mm | round | white | 5W | RGBTW | Zigbee

Introduction

Purpose of this Document

This document provides information for 136-810 6500K. 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	5.3 W
Correlated Colour Temperature	6128 K
Total lumen output	338 lm
Efficiency	64 lm/W

Electrical measurement details

Input Power

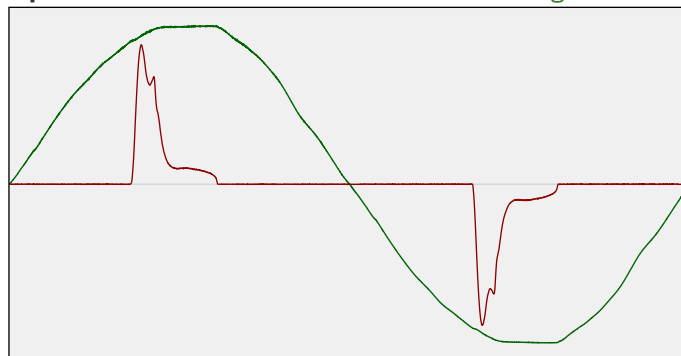
RMS Input voltage feed. V_{RMS}	229 V
RMS Input current feed. I_{RMS}	0.049 A
Total input power	5.3 W

Frequency of input power	50 Hz
Power factor	0.47
Displacement power factor	0.97

Total harmonic distortion of the current	174.17%
Total harmonic distortion of the voltage	2.49%

Input Power Curve

Voltage - Current



Efficiency

Radiated power efficiency: 22.4%



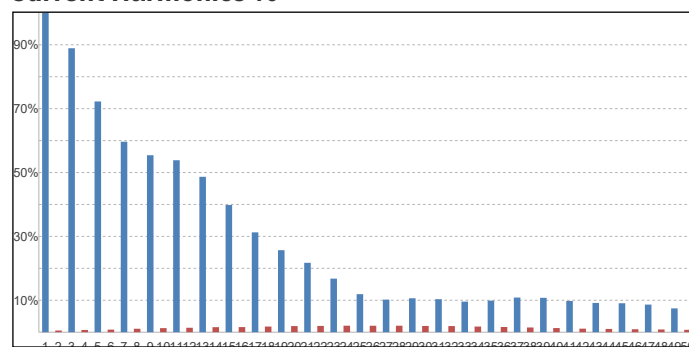
Lumen efficiency: 64 lm/W



Harmonics

3rd Harmonic	88.92%
5th Harmonic	72.25%
7th Harmonic	59.65%
9th Harmonic	55.42%
11th Harmonic	53.85%

Current Harmonics %



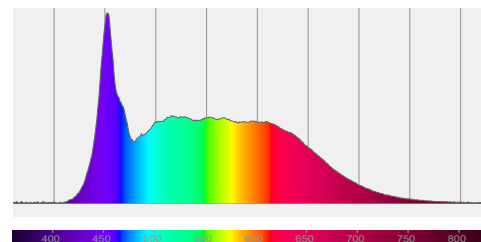
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Colour measurement details

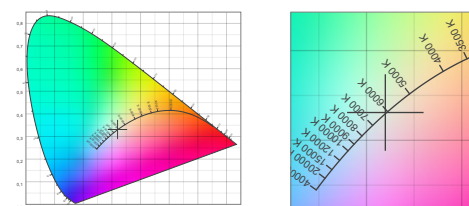
Total lumen output 338 lm
 Correlated Colour Temperature 6128 K
 Colour coordinates CIE 1931 (x;y) = (0.320;0.331)
 Colour deviation from BBL Duv = 0.0007

TM30-18 Colour Fidelity Index R_f 91.1
 TM30-18 Colour Gamut Index R_g 98.5
 Colour Rendering Index (Ra) CRI 95.0
 Colour Rendering Index. (red component) $R_9 = 73.6$

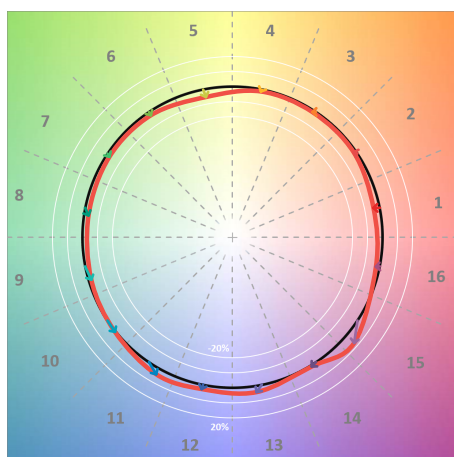
Colour Quality Scale CQS = 92.3
 Television Lighting Consistency Index TLCI = 96



Relative spectral power distribution



TM30 details

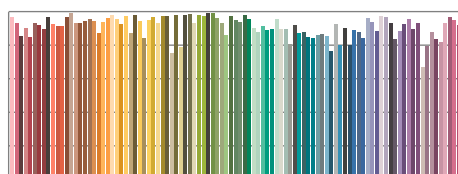


TM30 Colour vectors per hue bin

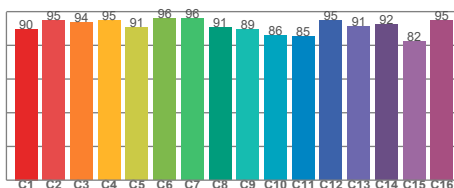


TM30 Colour distortion

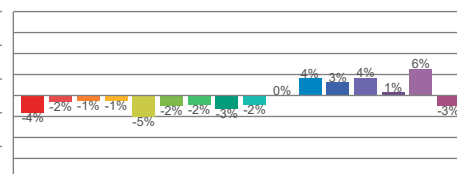
Hue Bin	R_f	Shifts (%)	
		Chroma	Hue
C1	90	-4%	1%
C2	95	-2%	2%
C3	94	-1%	2%
C4	95	-1%	0%
C5	91	-5%	-1%
C6	96	-2%	0%
C7	96	-2%	1%
C8	91	-3%	5%
C9	89	-2%	9%
C10	86	0%	9%
C11	85	4%	8%
C12	95	3%	0%
C13	91	4%	-4%
C14	92	1%	-4%
C15	82	6%	-14%
C16	95	-3%	-1%



TM30-18 R_f -values per reference colour

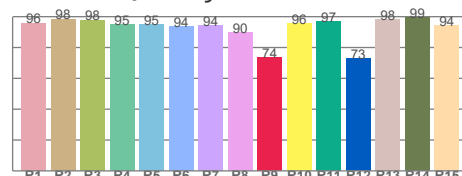


TM30-18 R_f -values per hue bin

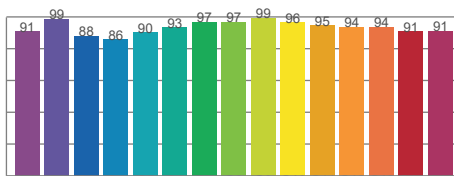


TM30 Chroma shift

Colour Quality details



Colour Rendering Index



Colour Quality Scale