

136-802 5W 2700K specific configuration

Spot | Ø82mm | round | chrome black | 5/7W | 3CCT/DTW

Introduction

Purpose of this Document

This document provides information for 136-802 5W 2700K. 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	5.6 W
Correlated Colour Temperature	2610 K
Total lumen output	343 lm
Efficiency	61 lm/W

Electrical measurement details

Input Power

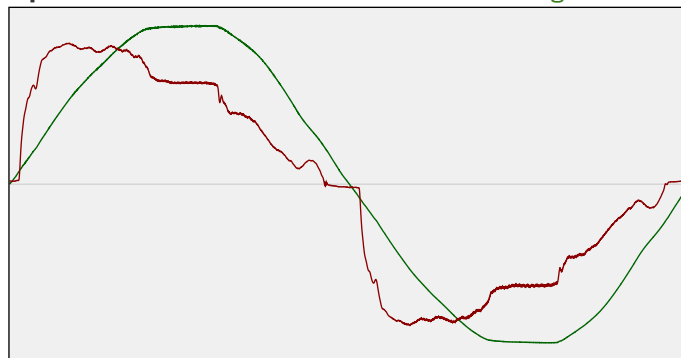
RMS Input voltage feed. V_{RMS}	229 V
RMS Input current feed. I_{RMS}	0.027 A
Total input power	5.6 W

Frequency of input power	50 Hz
Power factor	0.89
Displacement power factor	0.92

Total harmonic distortion of the current	23.89%
Total harmonic distortion of the voltage	2.53%

Input Power Curve

Voltage - Current



Efficiency

Radiated power efficiency: 20.7%



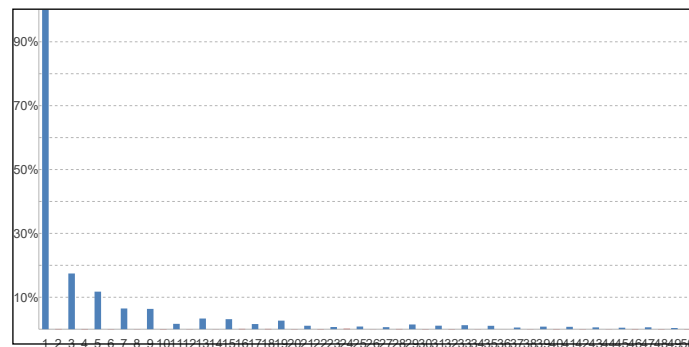
Lumen efficiency: 61 lm/W



Harmonics

3rd Harmonic	17.45%
5th Harmonic	11.76%
7th Harmonic	6.49%
9th Harmonic	6.36%
11th Harmonic	1.68%

Current Harmonics %



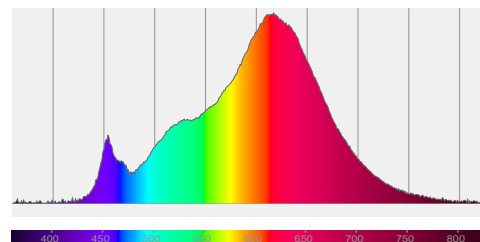
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Colour measurement details

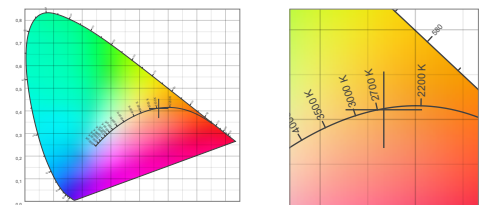
Total lumen output 343 lm
 Correlated Colour Temperature 2610 K
 Colour coordinates CIE 1931 (x;y) = (0.467;0.411)
 Colour deviation from BBL Duv = -0.0005

TM30-18 Colour Fidelity Index R_f 91.6
 TM30-18 Colour Gamut Index R_g 97.9
 Colour Rendering Index (Ra) CRI 92.0
 Colour Rendering Index. (red component) $R_9 = 47.9$

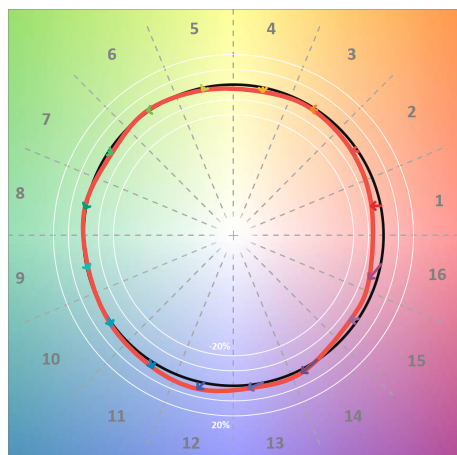
Colour Quality Scale CQS = 90.1
 Television Lighting Consistency Index TLCI = 86



Relative spectral power distribution



TM30 details

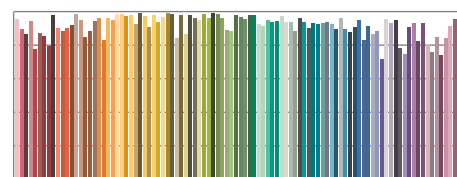


TM30 Colour vectors per hue bin

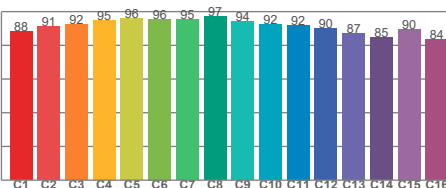


TM30 Colour distortion

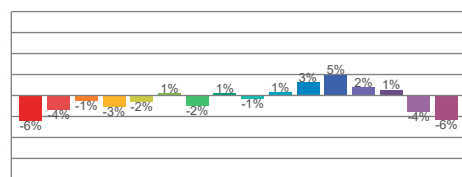
Hue Bin	R_f	Shifts (%)	
		Chroma	Hue
C1	88	-6%	1%
C2	91	-4%	3%
C3	92	-1%	4%
C4	95	-3%	-1%
C5	96	-2%	1%
C6	96	1%	2%
C7	95	-2%	-1%
C8	97	1%	2%
C9	94	-1%	3%
C10	92	1%	5%
C11	92	3%	4%
C12	90	5%	-3%
C13	87	2%	-10%
C14	85	1%	-13%
C15	90	-4%	-4%
C16	84	-6%	-11%



TM30-18 R_f -values per reference colour

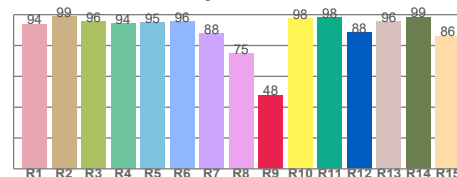


TM30-18 R_f -values per hue bin

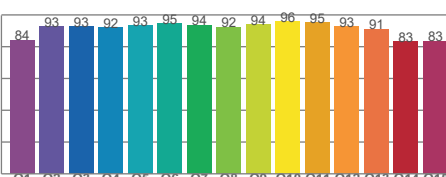


TM30 Chroma shift

Colour Quality details



Colour Rendering Index



Colour Quality Scale