

136-241 2700K specific configuration

Wall light | 251*167mm | 7W | IP65 | 2700-3000K | PIR Sensor

Introduction

Purpose of this Document

This document provides information for 136-241 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	6.9 W
Correlated Colour Temperature	2732 K
Total lumen output	728 lm
Efficiency	105 lm/W

Electrical measurement details

Input Power

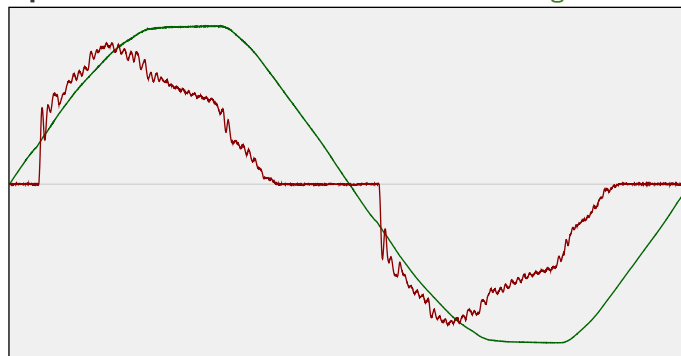
RMS Input voltage feed. V_{RMS}	230 V
RMS Input current feed. I_{RMS}	0.035 A
Total input power	6.9 W

Frequency of input power	50 Hz
Power factor	0.87
Displacement power factor	0.92

Total harmonic distortion of the current	32.92%
Total harmonic distortion of the voltage	2.76%

Input Power Curve

Voltage - Current



Efficiency

Radiated power efficiency: 32.6%



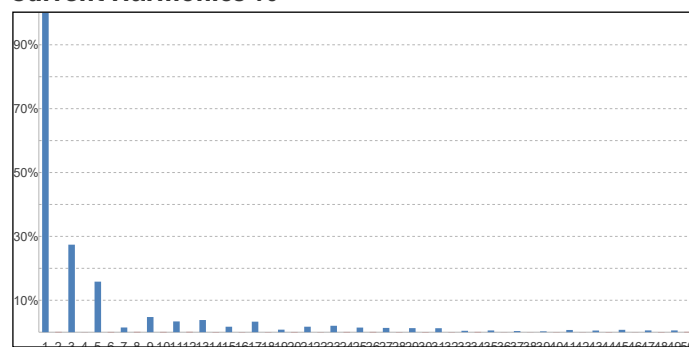
Lumen efficiency: 105 lm/W



Harmonics

3rd Harmonic	27.41%
5th Harmonic	15.83%
7th Harmonic	1.48%
9th Harmonic	4.75%
11th Harmonic	3.37%

Current Harmonics %



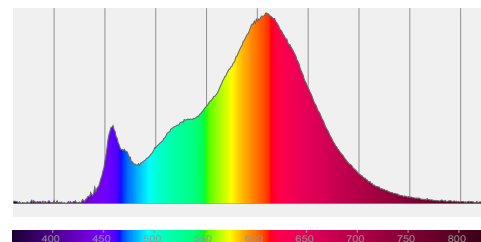
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Colour measurement details

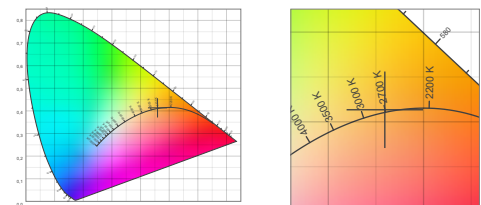
Total lumen output 728 lm
 Correlated Colour Temperature 2732 K
 Colour coordinates CIE 1931 (x;y) = (0.459;0.413)
 Colour deviation from BBL Duv = 0.0011

TM30-18 Colour Fidelity Index R_f 85.1
 TM30-18 Colour Gamut Index R_g 92.3
 Colour Rendering Index (Ra) CRI 84.6
 Colour Rendering Index. (red component) $R_9 = 14.6$

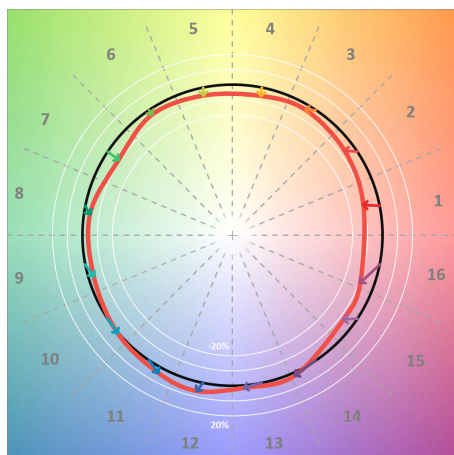
Colour Quality Scale CQS = 84.3
 Television Lighting Consistency Index TLCI = 74



Relative spectral power distribution



TM30 details

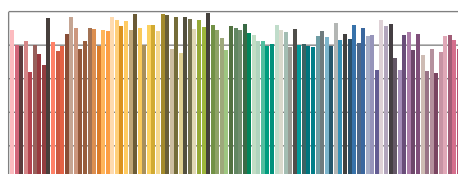


TM30 Colour vectors per hue bin

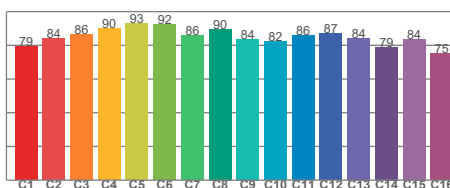


TM30 Colour distortion

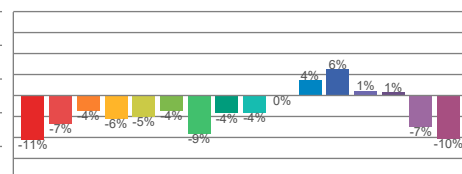
Hue Bin	R_f	Shifts (%)	
		Chroma	Hue
C1	79	-11%	3%
C2	84	-7%	5%
C3	86	-4%	6%
C4	90	-6%	-1%
C5	93	-5%	1%
C6	92	-4%	0%
C7	86	-9%	0%
C8	90	-4%	5%
C9	84	-4%	9%
C10	82	0%	12%
C11	86	4%	10%
C12	87	6%	-3%
C13	84	1%	-12%
C14	79	1%	-17%
C15	84	-7%	-6%
C16	75	-10%	-15%



TM30-18 R_f -values per reference colour

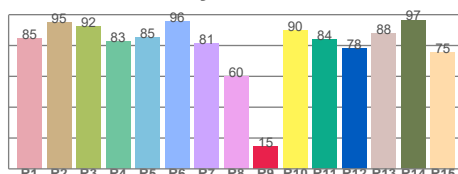


TM30-18 R_f -values per hue bin

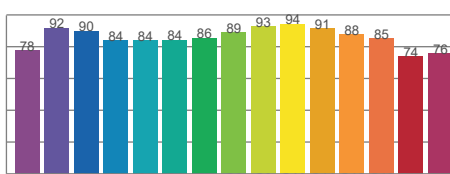


TM30 Chroma shift

Colour Quality details



Colour Rendering Index



Colour Quality Scale