

600-050 10W 3000K specific configuration

Emergency wall light IP66 | 5/10W 3-CCT | black | auto test

Introduction

Purpose of this Document

This document provides information for 600-050 10W 3000K. 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	10.3 W
Correlated Colour Temperature	3009 K
Total lumen output	1090 lm
Efficiency	106 lm/W

Electrical measurement details

Input Power

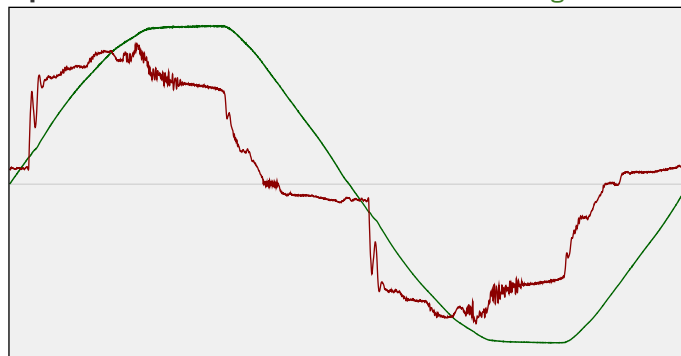
RMS Input voltage feed. V_{RMS}	228 V
RMS Input current feed. I_{RMS}	0.053 A
Total input power	10.3 W

Frequency of input power	50 Hz
Power factor	0.85
Displacement power factor	0.88

Total harmonic distortion of the current	23.07%
Total harmonic distortion of the voltage	2.82%

Input Power Curve

Voltage - Current



Efficiency

Radiated power efficiency: 31.5%



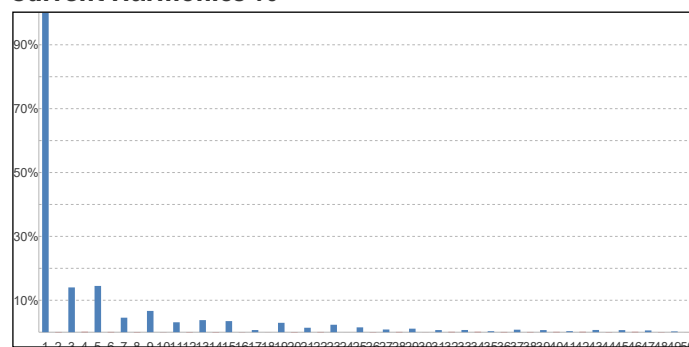
Lumen efficiency: 106 lm/W



Harmonics

3rd Harmonic	14.02%
5th Harmonic	14.49%
7th Harmonic	4.55%
9th Harmonic	6.66%
11th Harmonic	3.11%

Current Harmonics %



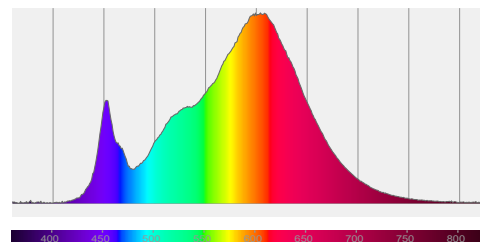
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Colour measurement details

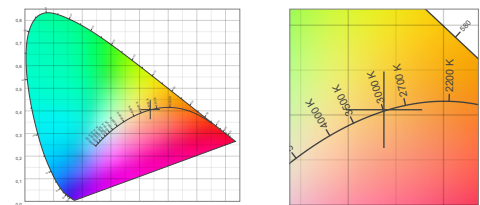
Total lumen output 1090 lm
 Correlated Colour Temperature 3009 K
 Colour coordinates CIE 1931 (x;y) = (0.437;0.406)
 Colour deviation from BBL Duv = 0.0006

TM30-18 Colour Fidelity Index R_f 84.5
 TM30-18 Colour Gamut Index R_g 94.6
 Colour Rendering Index (Ra) CRI 81.9
 Colour Rendering Index. (red component) $R_9 = 0.0$

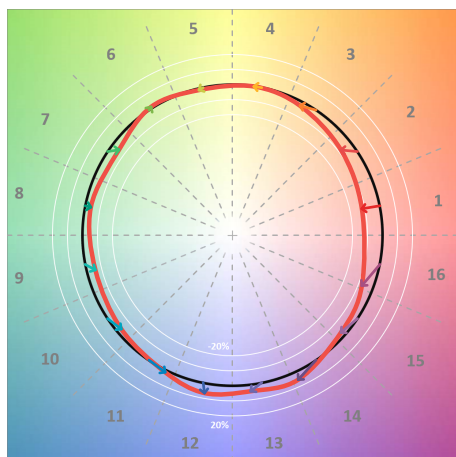
Colour Quality Scale CQS = 81.7
 Television Lighting Consistency Index TLCI = 67



Relative spectral power distribution



TM30 details

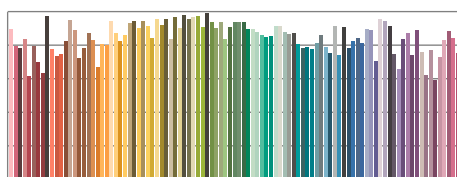


TM30 Colour vectors per hue bin

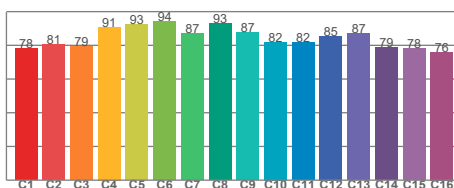


TM30 Colour distortion

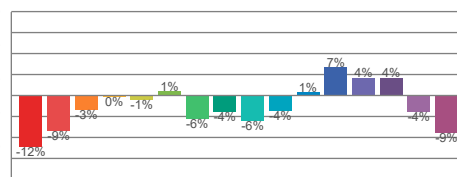
Hue Bin	R_f	Shifts (%)	
		Chroma	Hue
C1	78	-12%	0%
C2	81	-9%	7%
C3	79	-3%	10%
C4	91	0%	5%
C5	93	-1%	3%
C6	94	1%	-2%
C7	87	-6%	-5%
C8	93	-4%	0%
C9	87	-6%	5%
C10	82	-4%	11%
C11	82	1%	13%
C12	85	7%	2%
C13	87	4%	-8%
C14	79	4%	-17%
C15	78	-4%	-14%
C16	76	-9%	-16%



TM30-18 R_f -values per reference colour

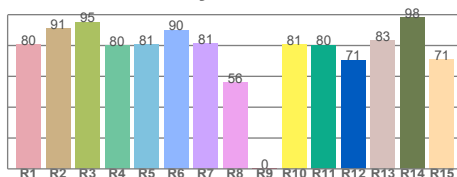


TM30-18 R_f -values per hue bin

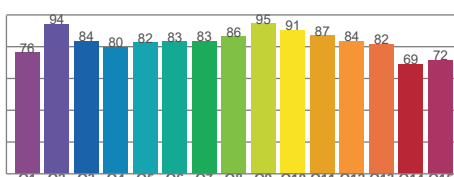


TM30 Chroma shift

Colour Quality details



Colour Rendering Index



Colour Quality Scale