

600-050 10W 5000K 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 5000K. 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	4957 K
Total lumen output	1147 lm
Efficiency	112 lm/W

Electrical measurement details

Input Power

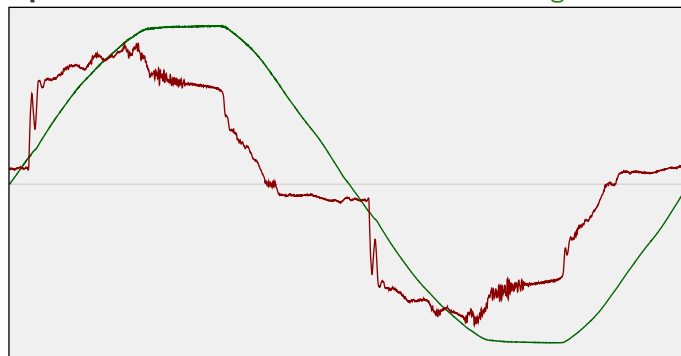
RMS Input voltage feed. V_{RMS}	228 V
RMS Input current feed. I_{RMS}	0.053 A
Total input power	10.3 W

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

Total harmonic distortion of the current	22.59%
Total harmonic distortion of the voltage	2.76%

Input Power Curve

Voltage - Current



Efficiency

Radiated power efficiency: 34.1%



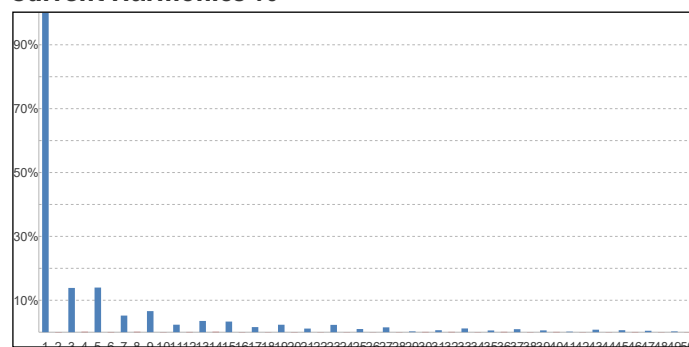
Lumen efficiency: 112 lm/W



Harmonics

3rd Harmonic	13.86%
5th Harmonic	13.98%
7th Harmonic	5.21%
9th Harmonic	6.6%
11th Harmonic	2.35%

Current Harmonics %



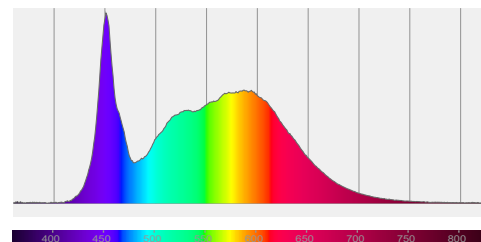
600-050 10W 5000K specific configuration

Colour measurement details

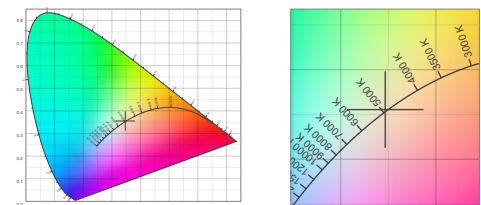
Total lumen output 1147 lm
 Correlated Colour Temperature 4957 K
 Colour coordinates CIE 1931 (x;y) = (0.347;0.355)
 Colour deviation from BBL Duv = 0.0013

TM30-18 Colour Fidelity Index R_f 82.3
 TM30-18 Colour Gamut Index R_g 95.0
 Colour Rendering Index (Ra) CRI 81.6
 Colour Rendering Index. (red component) $R_9 = -3.9$

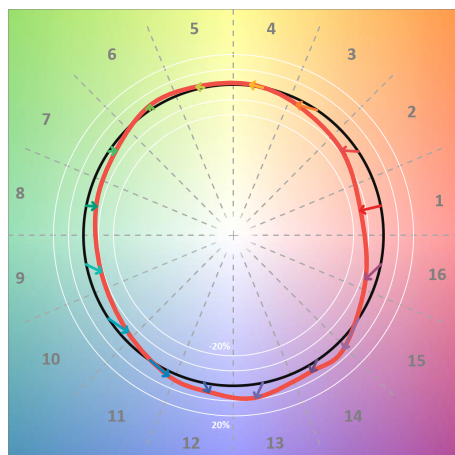
Colour Quality Scale CQS = 79.8
 Television Lighting Consistency Index TLCI = 68



Relative spectral power distribution



TM30 details

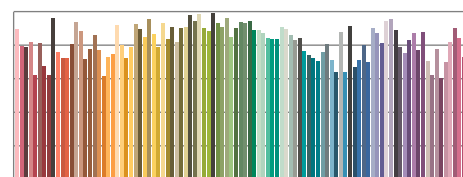


TM30 Colour vectors per hue bin

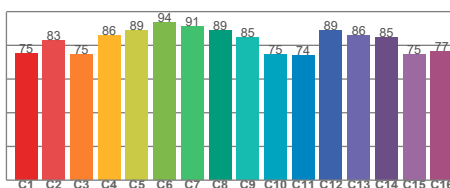


TM30 Colour distortion

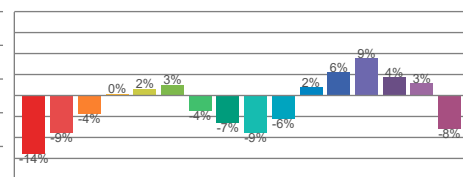
Hue Bin	R_f	Shifts (%)	
		Chroma	Hue
C1	75	-14%	-1%
C2	83	-9%	7%
C3	75	-4%	13%
C4	86	0%	9%
C5	89	2%	5%
C6	94	3%	-2%
C7	91	-4%	-3%
C8	89	-7%	-1%
C9	85	-9%	7%
C10	75	-6%	14%
C11	74	2%	16%
C12	89	6%	4%
C13	86	9%	-6%
C14	85	4%	-7%
C15	75	3%	-22%
C16	77	-8%	-11%



TM30-18 R_f -values per reference colour

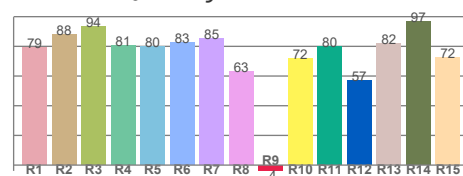


TM30-18 R_f -values per hue bin

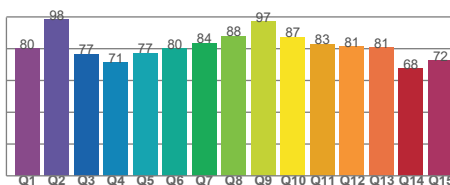


TM30 Chroma shift

Colour Quality details



Colour Rendering Index



Colour Quality Scale