

173-025 5700K specific configuration

LED panel | 30*120 | 25W | 3-CCT | UGR19 | 2m cable EU plug

Introduction

Purpose of this Document

This document provides information for 173-025 5700K. 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	24.6 W
Correlated Colour Temperature	6309 K
Total lumen output	3612 lm
Efficiency	147 lm/W

Electrical measurement details

Input Power

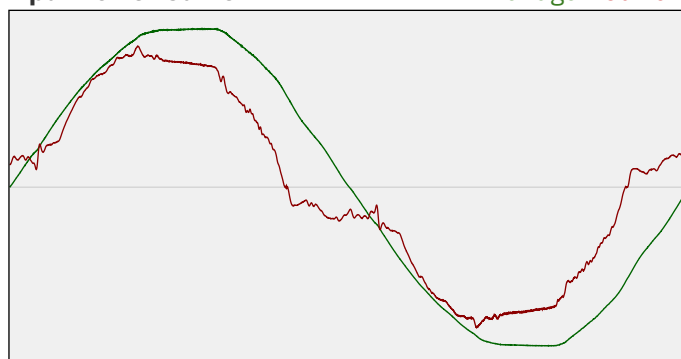
RMS Input voltage feed. V_{RMS}	231 V
RMS Input current feed. I_{RMS}	0.114 A
Total input power	24.6 W

Frequency of input power	50 Hz
Power factor	0.93
Displacement power factor	0.95

Total harmonic distortion of the current	21.82%
Total harmonic distortion of the voltage	2.38%

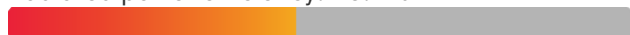
Input Power Curve

Voltage - Current



Efficiency

Radiated power efficiency: 46.4%



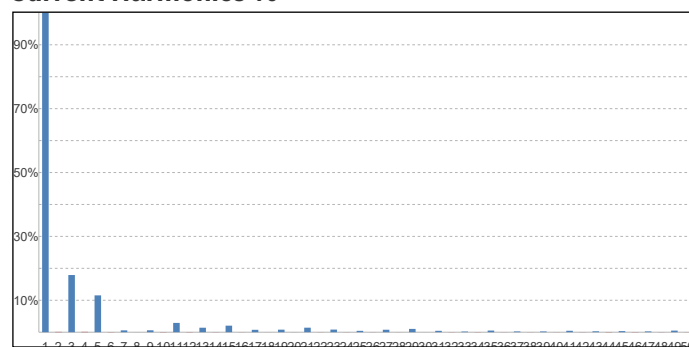
Lumen efficiency: 147 lm/W



Harmonics

3rd Harmonic	17.91%
5th Harmonic	11.53%
7th Harmonic	0.58%
9th Harmonic	0.6%
11th Harmonic	2.91%

Current Harmonics %



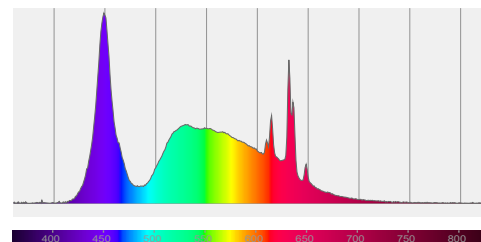
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Colour measurement details

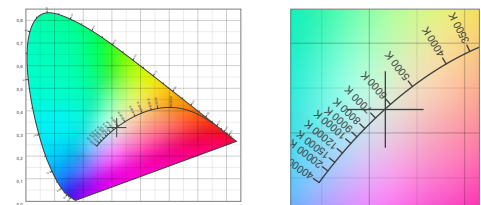
Total lumen output 3612 lm
 Correlated Colour Temperature 6309 K
 Colour coordinates CIE 1931 (x;y) = (0.317;0.326)
 Colour deviation from BBL Duv = -0.0003

TM30-18 Colour Fidelity Index R_f 80.6
 TM30-18 Colour Gamut Index R_g 101.6
 Colour Rendering Index (Ra) CRI 83.2
 Colour Rendering Index. (red component) $R_9 = 55.0$

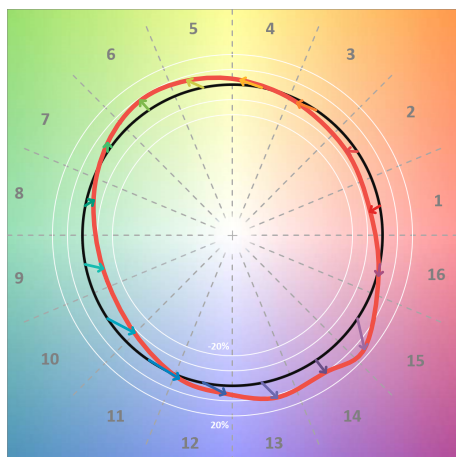
Colour Quality Scale CQS = 80.7
 Television Lighting Consistency Index TLCI = 77



Relative spectral power distribution



TM30 details

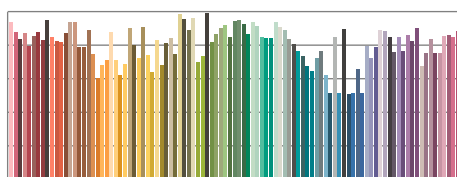


TM30 Colour vectors per hue bin

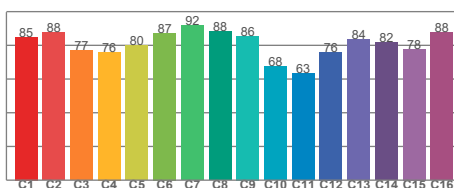


TM30 Colour distortion

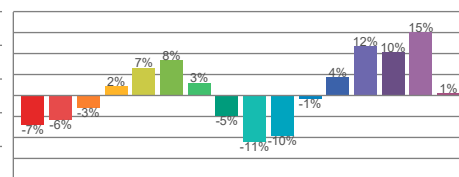
Hue Bin	R_f	Shifts (%)	
		Chroma	Hue
C1	85	-7%	-3%
C2	88	-6%	4%
C3	77	-3%	13%
C4	76	2%	15%
C5	80	7%	9%
C6	87	8%	1%
C7	92	3%	-5%
C8	88	-5%	-5%
C9	86	-11%	5%
C10	68	-10%	18%
C11	63	-1%	23%
C12	76	4%	16%
C13	84	12%	8%
C14	82	10%	1%
C15	78	15%	-14%
C16	88	1%	-7%



TM30-18 R_f -values per reference colour

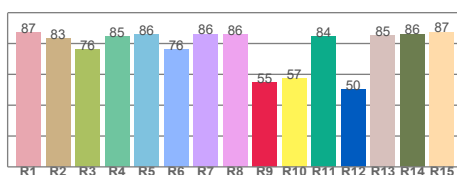


TM30-18 R_f -values per hue bin

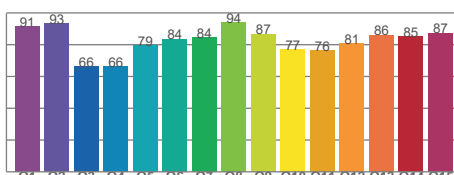


TM30 Chroma shift

Colour Quality details



Colour Rendering Index



Colour Quality Scale