136-521 8W 5700K specific configuration
Downlight | Ø140mm | white | 5-CCT | 6~15W | GST18i3

Introduction

Purpose of this Document

This document provides information for 136-521 8W 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

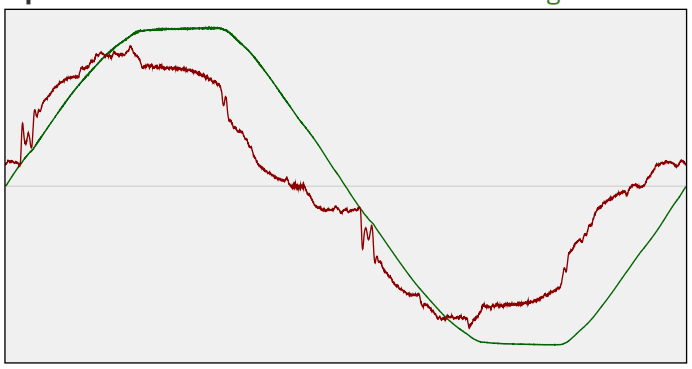
Total input power	7.9 W
Correlated Colour Temperature	6162 K
Total lumen output	820 lm
Efficiency	104 lm/W

Electrical measurement details

Input Power

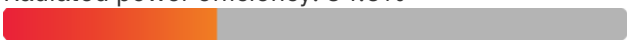
RMS Input voltage feed. V_{RMS}	230 V
RMS Input current feed. I_{RMS}	0.038 A
Total input power	7.9 W
Frequency of input power	50 Hz
Power factor	0.9
Displacement power factor	0.91
Total harmonic distortion of the current	15.39%
Total harmonic distortion of the voltage	2.98%

Input Power Curve Voltage - Current



Efficiency

Radiated power efficiency: 34.5%



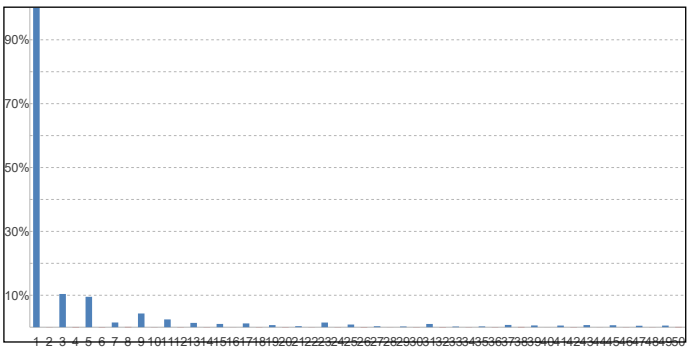
Lumen efficiency: 104 lm/W



Harmonics

3rd Harmonic	10.4%
5th Harmonic	9.53%
7th Harmonic	1.48%
9th Harmonic	4.3%
11th Harmonic	2.44%

Current Harmonics %

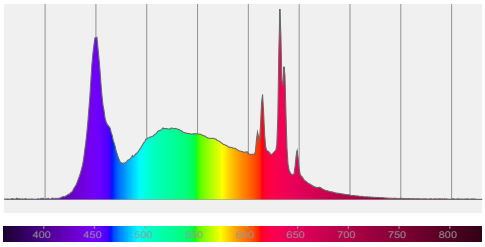


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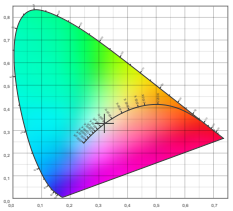
136-521 8W 5700K specific configuration

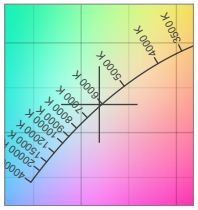
Colour measurement details

Total lumen output	820 lm
Correlated Colour Temperature	6162 K
Colour coordinates CIE 1931	(x;y) = (0.319;0.331)
Colour deviation from BBL	Duv = 0.0012
TM30-18 Colour Fidelity Index	R_f 92.5
TM30-18 Colour Gamut Index	R_g 103.6
Colour Rendering Index (Ra)	CRI 94.7
Colour Rendering Index. (red component)	R9 = 82.3
Colour Quality Scale	CQS = 94.7
Television Lighting Consistency Index	TLCI = 95

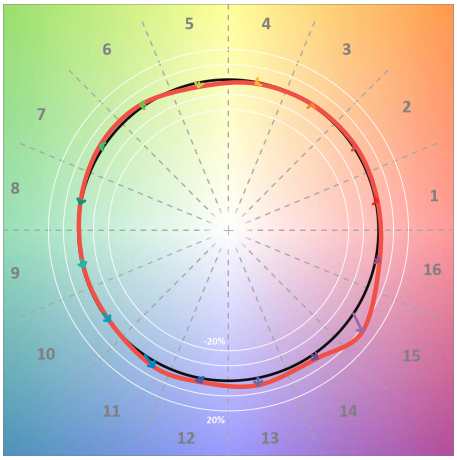


Relative spectral power distribution





TM30 details

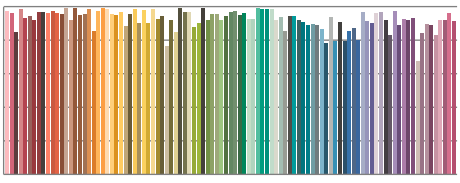


TM30 Colour vectors per hue bin

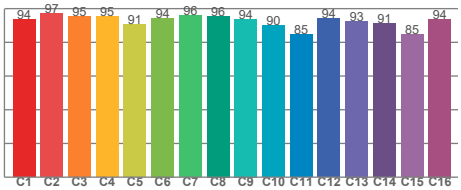


TM30 Colour distortion

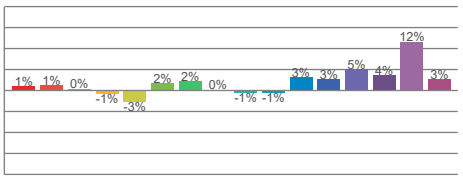
		Shifts (%)	
Hue Bin	R_f	Chroma	Hue
C1	94	1%	0%
C2	97	1%	-1%
C3	95	0%	0%
C4	95	-1%	1%
C5	91	-3%	1%
C6	94	2%	2%
C7	96	2%	1%
C8	96	0%	2%
C9	94	-1%	5%
C10	90	-1%	6%
C11	85	3%	9%
C12	94	3%	2%
C13	93	5%	0%
C14	91	4%	2%
C15	85	12%	-7%
C16	94	3%	-1%



TM30-18 Rf-values per reference colour

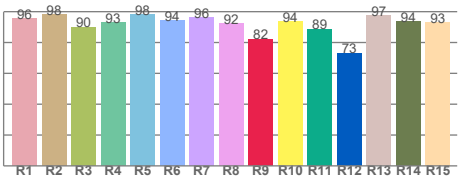


TM30-18 Rf-values per hue bin

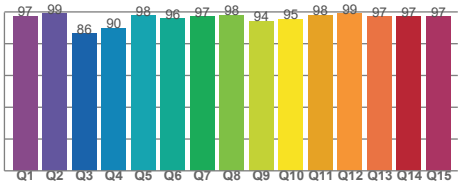


TM30 Chroma shift

Colour Quality details



Colour Rendering Index



Colour Qualitity Scale

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