

136-125 18W 6000K specific configuration

Downlight 3-CCT | cut out Ø135-145mm | 13/18W

Introduction

Purpose of this Document

This document provides information for 136-125 18W 6000K. 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	16.3 W
Correlated Colour Temperature	6847 K
Total lumen output	1902 lm
Efficiency	117 lm/W

Electrical measurement details

Input Power

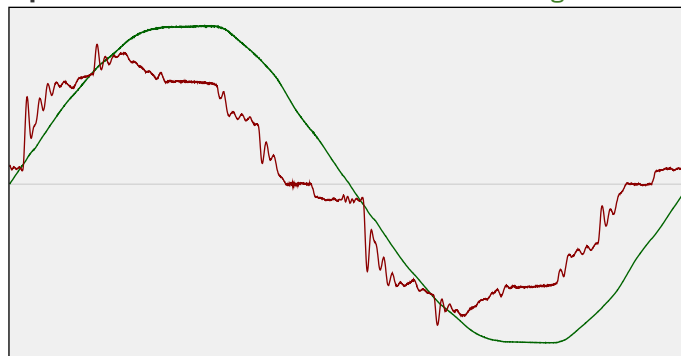
RMS Input voltage feed. V_{RMS}	229 V
RMS Input current feed. I_{RMS}	0.078 A
Total input power	16.3 W

Frequency of input power	50 Hz
Power factor	0.91
Displacement power factor	0.92

Total harmonic distortion of the current	14.54%
Total harmonic distortion of the voltage	2.53%

Input Power Curve

Voltage - Current



Efficiency

Radiated power efficiency: 39.0%



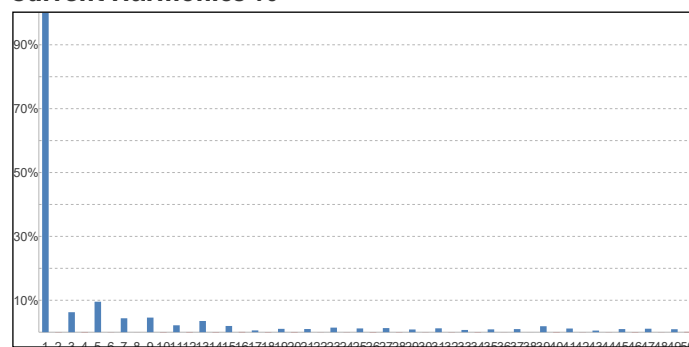
Lumen efficiency: 117 lm/W



Harmonics

3rd Harmonic	6.26%
5th Harmonic	9.55%
7th Harmonic	4.36%
9th Harmonic	4.58%
11th Harmonic	2.16%

Current Harmonics %



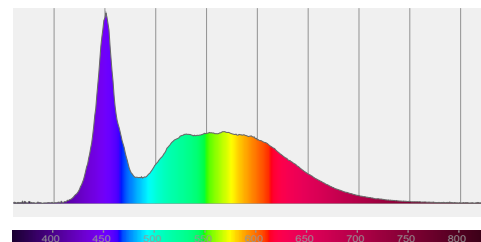
136-125 18W 6000K specific configuration

Colour measurement details

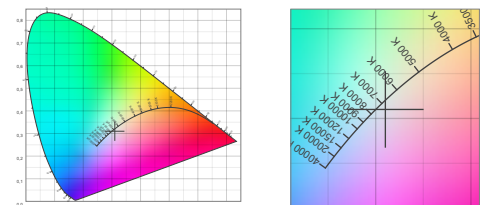
Total lumen output 1902 lm
 Correlated Colour Temperature 6847 K
 Colour coordinates CIE 1931 (x;y) = (0.310;0.310)
 Colour deviation from BBL Duv = -0.0055

TM30-18 Colour Fidelity Index R_f 80.1
 TM30-18 Colour Gamut Index R_g 98.6
 Colour Rendering Index (Ra) CRI 83.6
 Colour Rendering Index. (red component) $R_9 = 27.1$

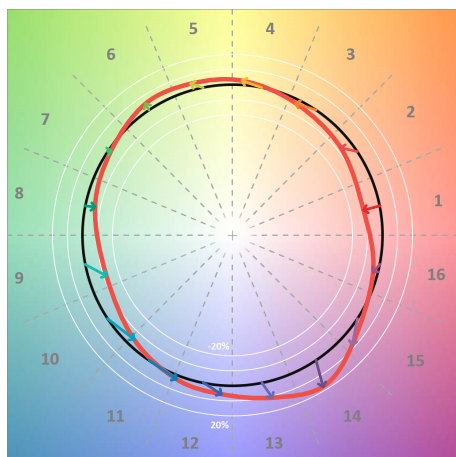
Colour Quality Scale CQS = 77.4
 Television Lighting Consistency Index TLCI = 69



Relative spectral power distribution



TM30 details

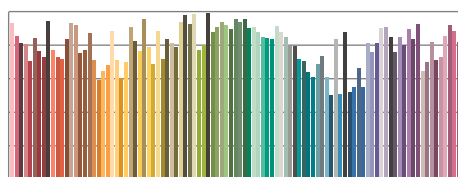


TM30 Colour vectors per hue bin

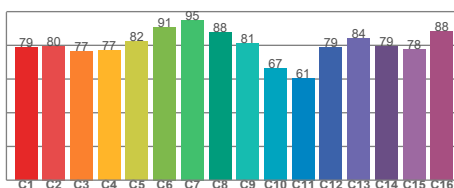


TM30 Colour distortion

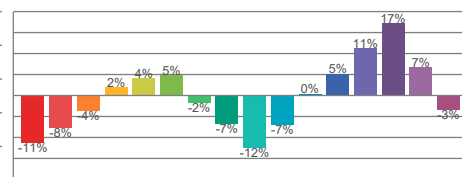
Hue Bin	R_f	Shifts (%)	
		Chroma	Hue
C1	79	-11%	-1%
C2	80	-8%	8%
C3	77	-4%	14%
C4	77	2%	14%
C5	82	4%	8%
C6	91	5%	0%
C7	95	-2%	-2%
C8	88	-7%	0%
C9	81	-12%	10%
C10	67	-7%	21%
C11	61	0%	22%
C12	79	5%	13%
C13	84	11%	5%
C14	79	17%	-6%
C15	78	7%	-16%
C16	88	-3%	-6%



TM30-18 R_f -values per reference colour

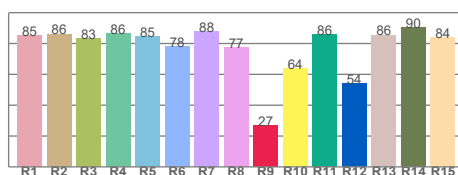


TM30-18 R_f -values per hue bin

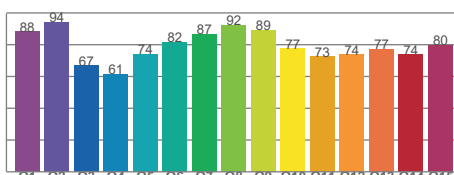


TM30 Chroma shift

Colour Quality details



Colour Rendering Index



Colour Quality Scale