

136-126 13W 4000K specific configuration  
Downlight 3-CCT | cut out Ø168-178mm | 14/20W

## Introduction

### Purpose of this Document

This document provides information for 136-126 13W 4000K. 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	12.2 W
Correlated Colour Temperature	4361 K
Total lumen output	1478 lm
Efficiency	121 lm/W

## Electrical measurement details

### Input Power

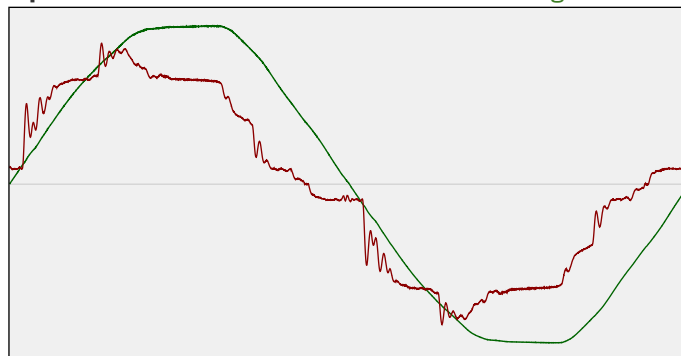
RMS Input voltage feed. $V_{RMS}$	232 V
RMS Input current feed. $I_{RMS}$	0.057 A
Total input power	12.2 W

Frequency of input power	50 Hz
Power factor	0.91
Displacement power factor	0.93

Total harmonic distortion of the current	14.78%
Total harmonic distortion of the voltage	2.79%

### Input Power Curve

Voltage - Current



### Efficiency

Radiated power efficiency: 38.7%



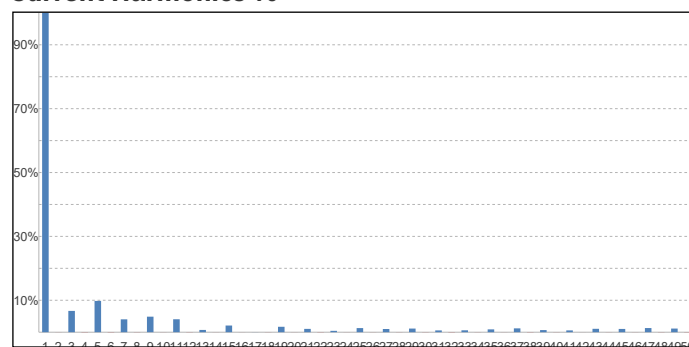
Lumen efficiency: 121 lm/W



### Harmonics

3rd Harmonic	6.67%
5th Harmonic	9.79%
7th Harmonic	4.03%
9th Harmonic	4.87%
11th Harmonic	4.05%

### Current Harmonics %



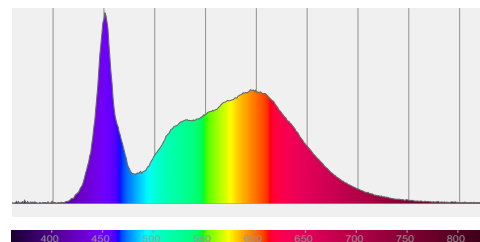
## 136-126 13W 4000K specific configuration

### Colour measurement details

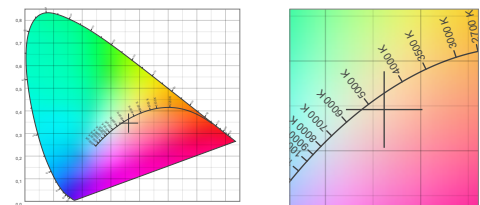
Total lumen output 1478 lm  
 Correlated Colour Temperature 4361 K  
 Colour coordinates CIE 1931 (x;y) = (0.362;0.346)  
 Colour deviation from BBL Duv = -0.0092

TM30-18 Colour Fidelity Index  $R_f$  82.1  
 TM30-18 Colour Gamut Index  $R_g$  99.5  
 Colour Rendering Index (Ra) CRI 85.4  
 Colour Rendering Index. (red component)  $R_9 = 25.4$

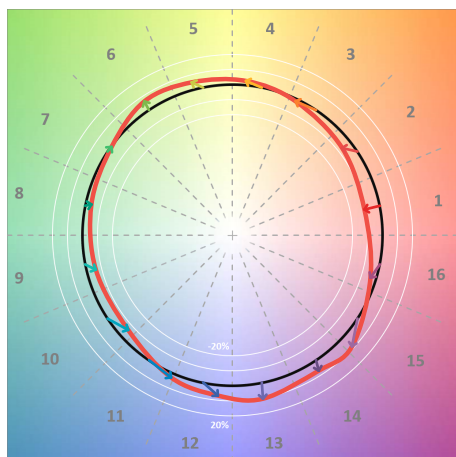
Colour Quality Scale CQS = 80.2  
 Television Lighting Consistency Index TLCI = 68



Relative spectral power distribution



### TM30 details

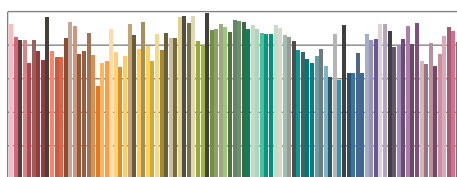


TM30 Colour vectors per hue bin

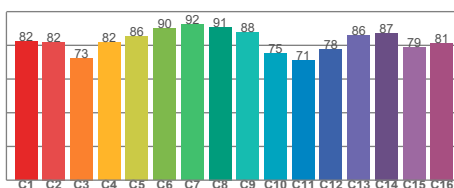


TM30 Colour distortion

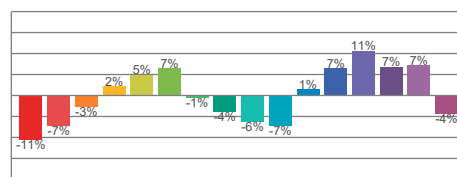
Hue Bin	$R_f$	Shifts (%)	
		Chroma	Hue
C1	82	-11%	0%
C2	82	-7%	8%
C3	73	-3%	15%
C4	82	2%	11%
C5	86	5%	7%
C6	90	7%	-1%
C7	92	-1%	-4%
C8	91	-4%	-2%
C9	88	-6%	5%
C10	75	-7%	14%
C11	71	1%	19%
C12	78	7%	11%
C13	86	11%	-1%
C14	87	7%	-2%
C15	79	7%	-17%
C16	81	-4%	-10%



TM30-18  $R_f$ -values per reference colour

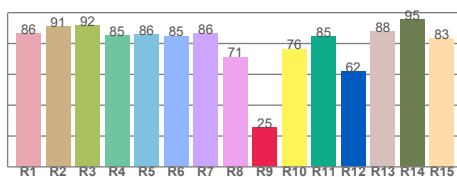


TM30-18  $R_f$ -values per hue bin

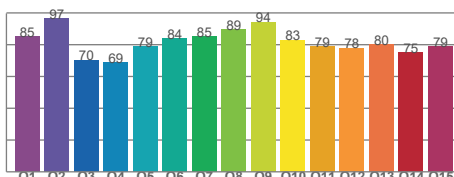


TM30 Chroma shift

### Colour Quality details



Colour Rendering Index



Colour Quality Scale