

## 136-118 20W 6000K specific configuration

Reflector downlight eco | white | Ø174mm | 14/20W | 3-CCT

### Introduction

#### Purpose of this Document

This document provides information for 136-118 20W 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	19.8 W
Correlated Colour Temperature	6263 K
Total lumen output	1909 lm
Efficiency	97 lm/W

### Electrical measurement details

#### Input Power

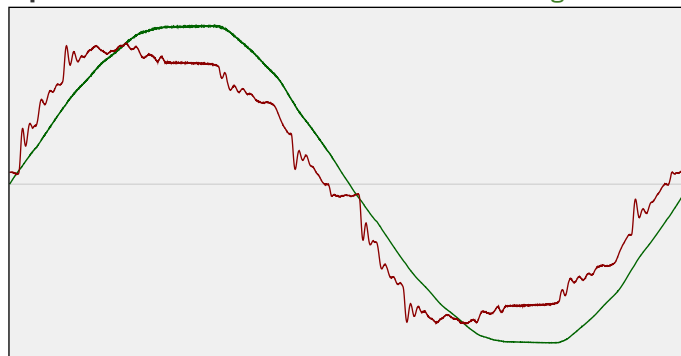
RMS Input voltage feed. $V_{RMS}$	232 V
RMS Input current feed. $I_{RMS}$	0.089 A
Total input power	19.8 W

Frequency of input power	50 Hz
Power factor	0.96
Displacement power factor	0.97

Total harmonic distortion of the current	11.76%
Total harmonic distortion of the voltage	2.37%

#### Input Power Curve

Voltage - Current



#### Efficiency

Radiated power efficiency: 31.7%



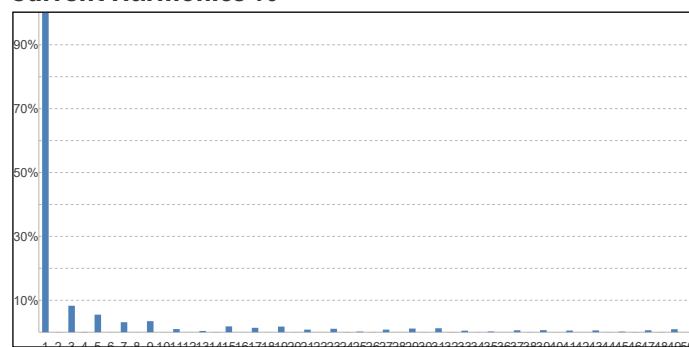
Lumen efficiency: 97 lm/W



#### Harmonics

3rd Harmonic	8.29%
5th Harmonic	5.5%
7th Harmonic	3.13%
9th Harmonic	3.46%
11th Harmonic	0.98%

#### Current Harmonics %



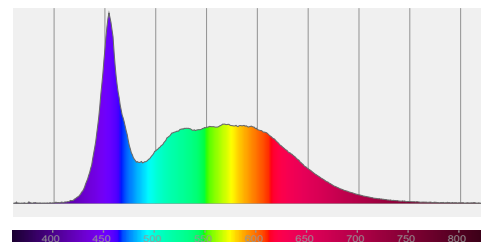
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### Colour measurement details

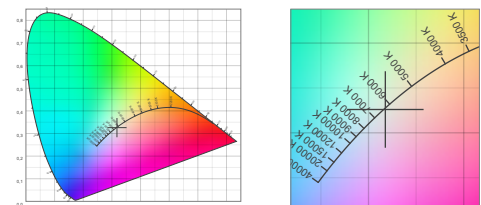
Total lumen output 1909 lm  
 Correlated Colour Temperature 6263 K  
 Colour coordinates CIE 1931 (x;y) = (0.318;0.326)  
 Colour deviation from BBL Duv = -0.0009

TM30-18 Colour Fidelity Index  $R_f$  84.0  
 TM30-18 Colour Gamut Index  $R_g$  95.2  
 Colour Rendering Index (Ra) CRI 86.7  
 Colour Rendering Index. (red component)  $R_9 = 27.3$

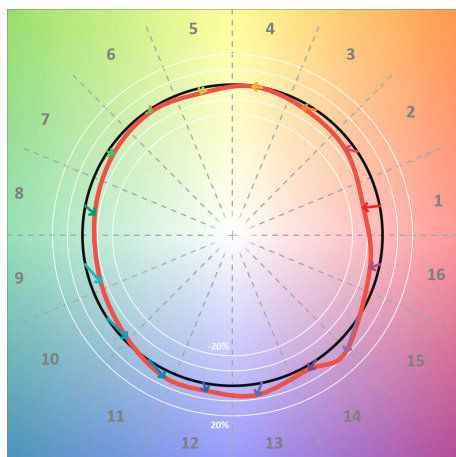
Colour Quality Scale CQS = 82.1  
 Television Lighting Consistency Index TLCI = 78



Relative spectral power distribution



### TM30 details

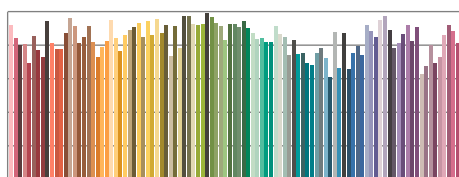


TM30 Colour vectors per hue bin

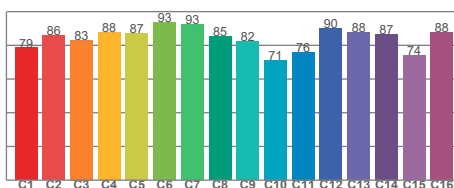


TM30 Colour distortion

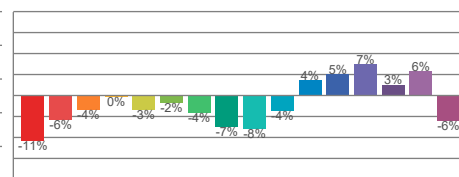
Hue Bin	$R_f$	Shifts (%)	
		Chroma	Hue
C1	79	-11%	1%
C2	86	-6%	6%
C3	83	-4%	8%
C4	88	0%	6%
C5	87	-3%	2%
C6	93	-2%	-1%
C7	93	-4%	-1%
C8	85	-7%	4%
C9	82	-8%	14%
C10	71	-4%	18%
C11	76	4%	15%
C12	90	5%	3%
C13	88	7%	-5%
C14	87	3%	-7%
C15	74	6%	-22%
C16	88	-6%	-3%



TM30-18  $R_f$ -values per reference colour

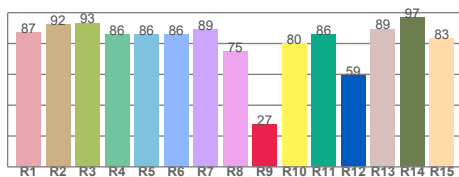


TM30-18  $R_f$ -values per hue bin

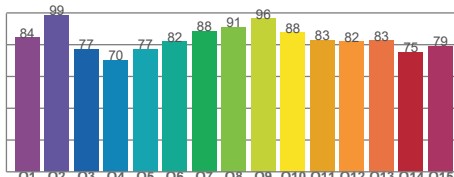


TM30 Chroma shift

### Colour Quality details



Colour Rendering Index



Colour Quality Scale