

136-502 360mA 3500K specific configuration  
Downlight | Ø167mm | white | 5-CCT | 360mA | no driver

## Introduction

### Purpose of this Document

This document provides information for 136-502 360mA 3500K. 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	3573 K
Total lumen output	1450 lm
Efficiency	119 lm/W

## Electrical measurement details

### Input Power

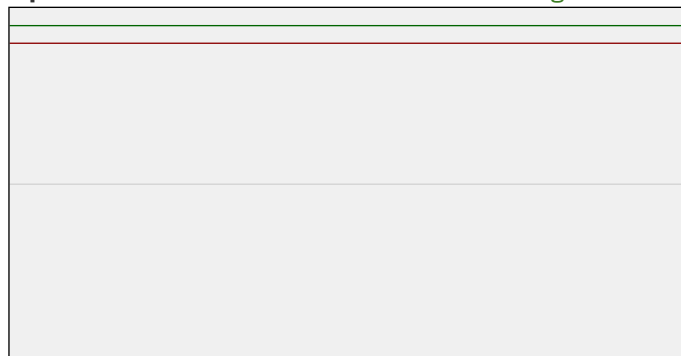
RMS Input voltage feed. $V_{RMS}$	33.8 V
RMS Input current feed. $I_{RMS}$	0.360 A
Total input power	12.2 W

Frequency of input power	0 Hz
Power factor	1.0
Displacement power factor	1.0

Total harmonic distortion of the current	0%
Total harmonic distortion of the voltage	0%

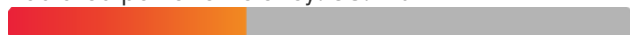
### Input Power Curve

Voltage - Current



### Efficiency

Radiated power efficiency: 38.4%



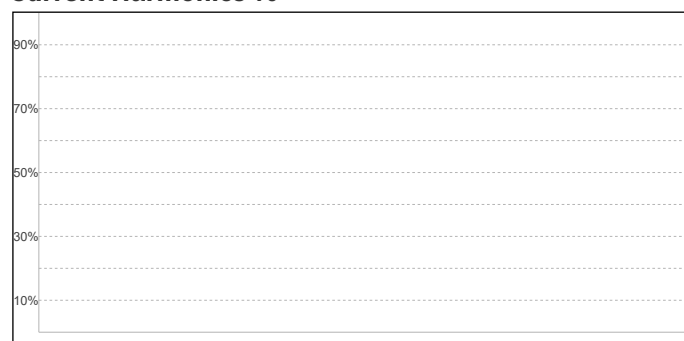
Lumen efficiency: 119 lm/W



### Harmonics

3rd Harmonic	n/a
5th Harmonic	n/a
7th Harmonic	n/a
9th Harmonic	n/a
11th Harmonic	n/a

### Current Harmonics %



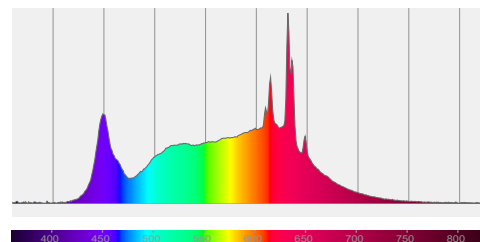
## 136-502 360mA 3500K specific configuration

### Colour measurement details

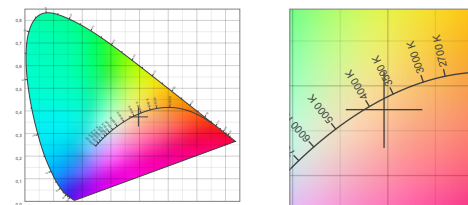
Total lumen output 1450 lm  
 Correlated Colour Temperature 3573 K  
 Colour coordinates CIE 1931 (x;y) = (0.396;0.373)  
 Colour deviation from BBL Duv = -0.0057

TM30-18 Colour Fidelity Index  $R_f$  93.2  
 TM30-18 Colour Gamut Index  $R_g$  103.5  
 Colour Rendering Index (Ra) CRI 95.7  
 Colour Rendering Index. (red component)  $R_9 = 86.9$

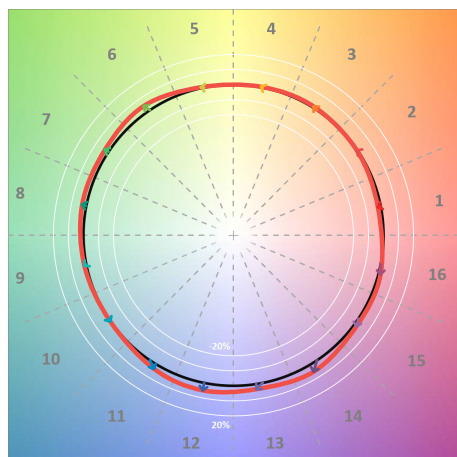
Colour Quality Scale CQS = 95.1  
 Television Lighting Consistency Index TLCI = 90



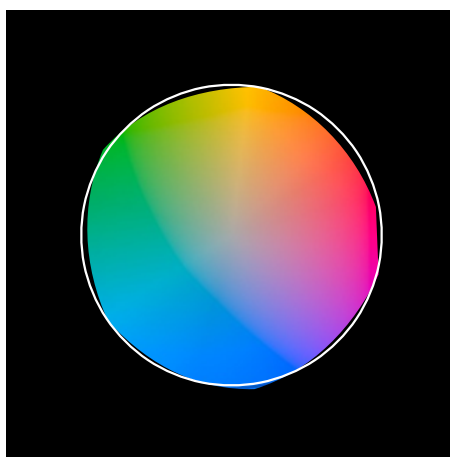
Relative spectral power distribution



### TM30 details

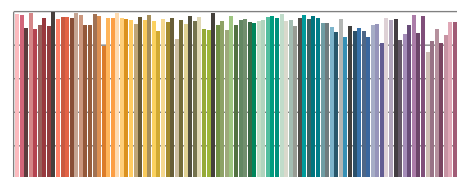


TM30 Colour vectors per hue bin

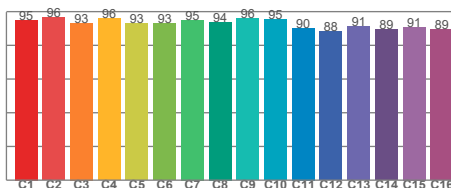


TM30 Colour distortion

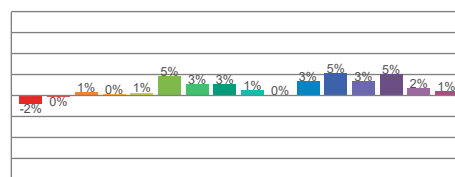
Hue Bin	$R_f$	Shifts (%)	
		Chroma	Hue
C1	95	-2%	0%
C2	96	0%	1%
C3	93	1%	3%
C4	96	0%	1%
C5	93	1%	2%
C6	93	5%	2%
C7	95	3%	0%
C8	94	3%	0%
C9	96	1%	1%
C10	95	0%	2%
C11	90	3%	5%
C12	88	5%	0%
C13	91	3%	-5%
C14	89	5%	-6%
C15	91	2%	-5%
C16	89	1%	-6%



TM30-18  $R_f$ -values per reference colour

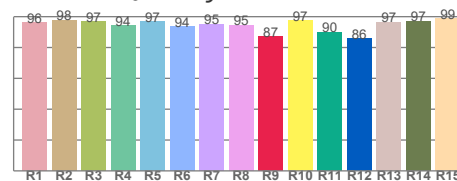


TM30-18  $R_f$ -values per hue bin

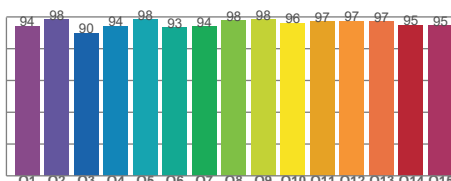


TM30 Chroma shift

### Colour Quality details



Colour Rendering Index



Colour Quality Scale