# 136-521 15W 4000K specific configuration
Downlight | Ø140mm | white | 5-CCT | 6~15W | GST18i3

## Introduction

**Purpose of this Document**

This document provides information for 136-521 15W 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**

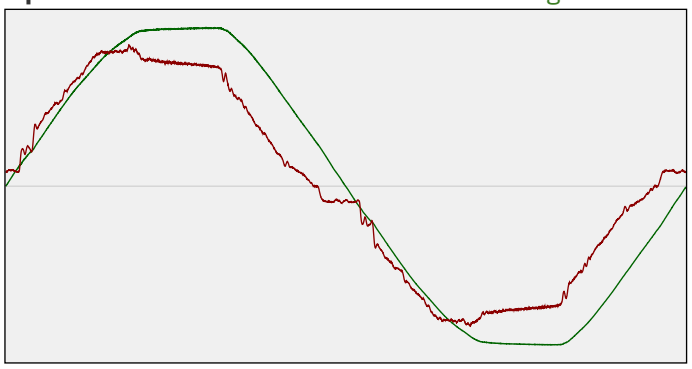
| | |
|---|---|
| Total input power | 14.0 W |
| Correlated Colour Temperature | 4142 K |
| Total lumen output | 1425 lm |
| Efficiency | 102 lm/W |

## Electrical measurement details

**Input Power**

| | |
|---|---|
| RMS Input voltage feed. $V_{RMS}$ | 232 V |
| RMS Input current feed. $I_{RMS}$ | 0.063 A |
| Total input power | 14.0 W |
| Frequency of input power | 50 Hz |
| Power factor | 0.96 |
| Displacement power factor | 0.97 |
| Total harmonic distortion of the current | 11.2% |
| Total harmonic distortion of the voltage | 2.93% |

**Input Power Curve** Voltage - Current



**Efficiency**

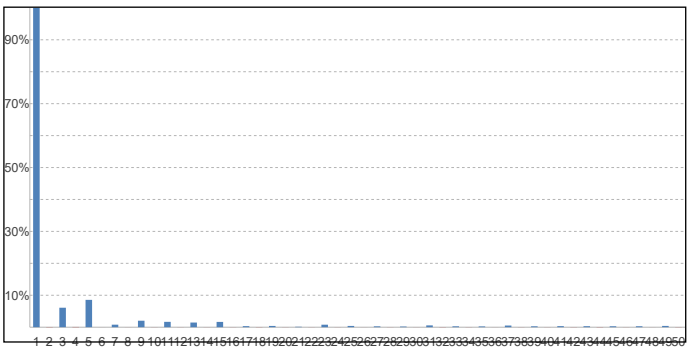
Radiated power efficiency: 33.1%

Lumen efficiency: 102 lm/W

**Harmonics**

| | |
|---|---|
| 3rd Harmonic | 6.1% |
| 5th Harmonic | 8.56% |
| 7th Harmonic | 0.79% |
| 9th Harmonic | 2.03% |
| 11th Harmonic | 1.68% |

**Current Harmonics %**

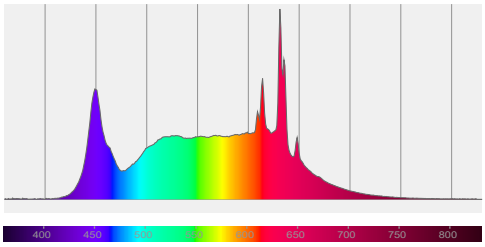



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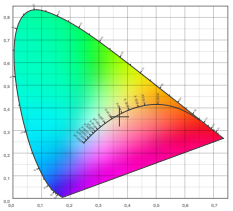
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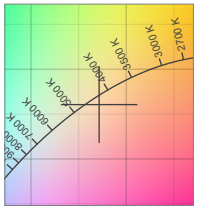
## Colour measurement details

| | |
|---|---|
| Total lumen output | 1425 lm |
| Correlated Colour Temperature | 4142 K |
| Colour coordinates CIE 1931 | (x;y) = (0.372;0.361) |
| Colour deviation from BBL | Duv = -0.0051 |
| TM30-18 Colour Fidelity Index | $R_f$ 93.1 |
| TM30-18 Colour Gamut Index | $R_g$ 103.7 |
| Colour Rendering Index (Ra) | CRI 96.0 |
| Colour Rendering Index. (red component) | R9 = 96.8 |
| Colour Quality Scale | CQS = 95.6 |
| Television Lighting Consistency Index | TLCI = 92 |

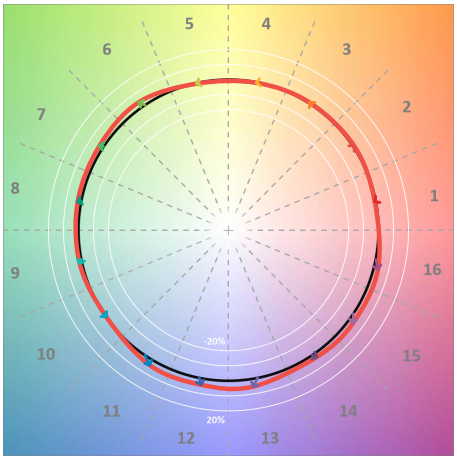



Relative spectral power distribution






## TM30 details

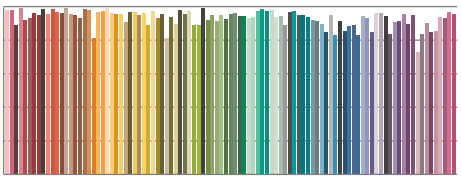



TM30 Colour vectors per hue bin

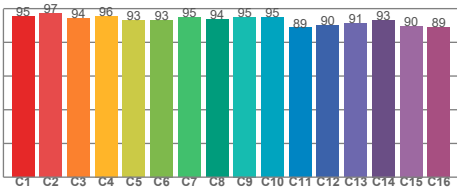


TM30 Colour distortion

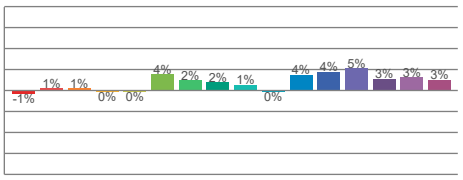
| | | Shifts (%) | |
|---|---|---|---|
| Hue Bin | $R_f$ | Chroma | Hue |
| C1 | 95 | -1% | 0% |
| C2 | 97 | 1% | 0% |
| C3 | 94 | 1% | 2% |
| C4 | 96 | 0% | 1% |
| C5 | 93 | 0% | 2% |
| C6 | 93 | 4% | 2% |
| C7 | 95 | 2% | 1% |
| C8 | 94 | 2% | 1% |
| C9 | 95 | 1% | 3% |
| C10 | 95 | 0% | 3% |
| C11 | 89 | 4% | 6% |
| C12 | 90 | 4% | 2% |
| C13 | 91 | 5% | -4% |
| C14 | 93 | 3% | 2% |
| C15 | 90 | 3% | -5% |
| C16 | 89 | 3% | -6% |



TM30-18 Rf-values per reference colour

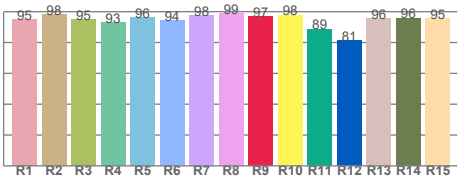



TM30-18 Rf-values per hue bin

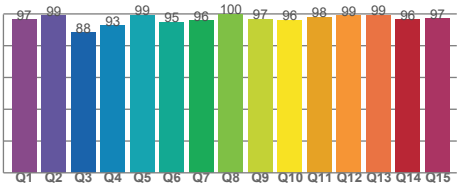



TM30 Chroma shift

## Colour Quality details




Colour Rendering Index




Colour Qualitity Scale

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