



950-123 + 950-126 specific configuration
UFO high bay | 100/120/150W | 150 Lm/W | 3-CCT | 75/95/105°

Introduction

Purpose of this Document

This document provides information for 950-123 + 950-126. 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 | 140.6 W |
| Correlated Colour Temperature | 4015 K |
| Total lumen output | 19266 lm |
| Efficiency | 137 lm/W |

Electrical measurement details

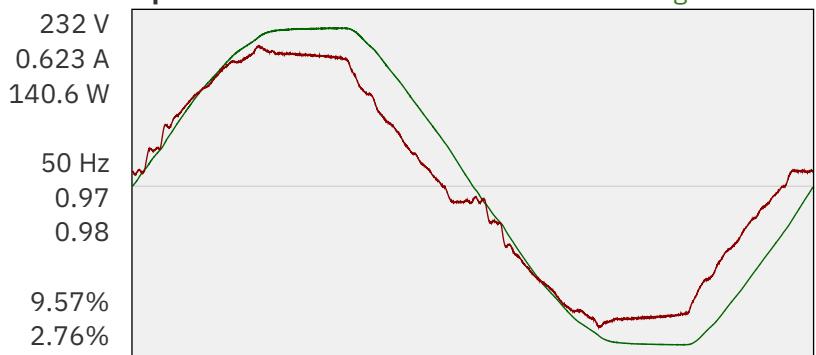
Input Power

| | |
|-----------------------------------|---------|
| RMS Input voltage feed, V_{RMS} | 232 V |
| RMS Input current feed, I_{RMS} | 0.623 A |
| Total input power | 140.6 W |

| | |
|---------------------------|-------|
| Frequency of input power | 50 Hz |
| Power factor | 0.97 |
| Displacement power factor | 0.98 |

| | |
|--|-------|
| Total harmonic distortion of the current | 9.57% |
| Total harmonic distortion of the voltage | 2.76% |

Input Power Curve



Efficiency

Radiated power efficiency: 43.2%



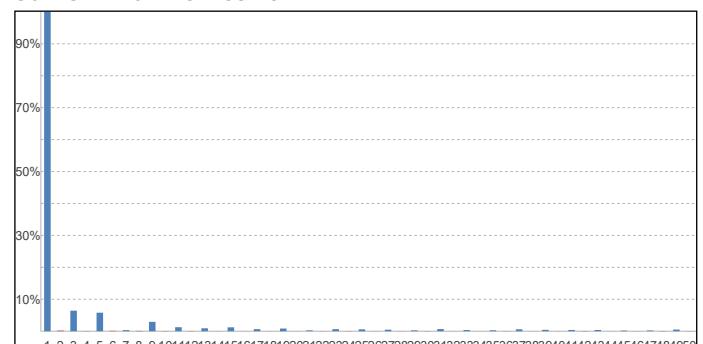
Lumen efficiency: 137 lm/W



Harmonics

| | |
|---------------|-------|
| 3rd Harmonic | 6.43% |
| 5th Harmonic | 5.79% |
| 7th Harmonic | 0.34% |
| 9th Harmonic | 2.93% |
| 11th Harmonic | 1.25% |

Current Harmonics %





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Colour measurement details

Total lumen output

19266 lm

Correlated Colour Temperature

4015 K

Colour coordinates CIE 1931

(x;y) = (0.377;0.364)

Colour deviation from BBL

Duv = -0.0050

TM30-18 Colour Fidelity Index

R_f 85.8

TM30-18 Colour Gamut Index

R_g 96.6

Colour Rendering Index (Ra)

CRI 87.3

Colour Rendering Index. (red component)

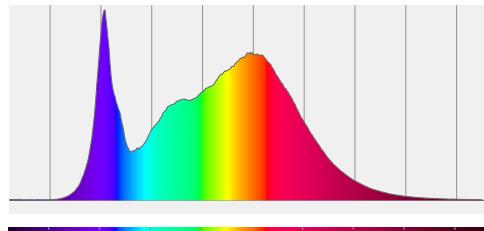
R9 = 26.9

Colour Quality Scale

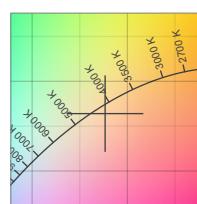
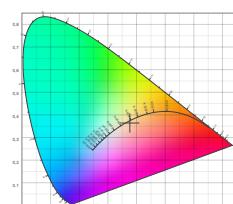
CQS = 84.5

Television Lighting Consistency Index

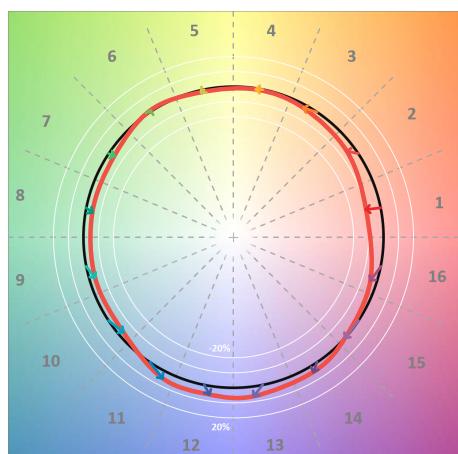
TLCI = 75



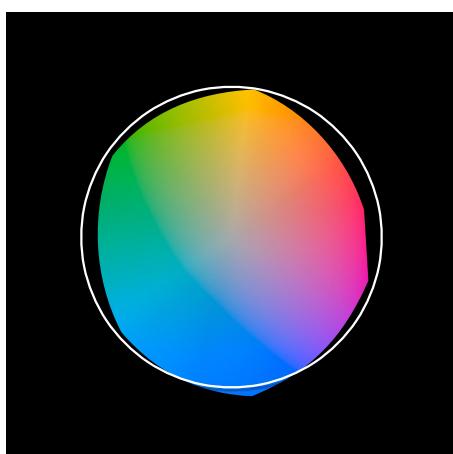
Relative spectral power distribution



TM30 details

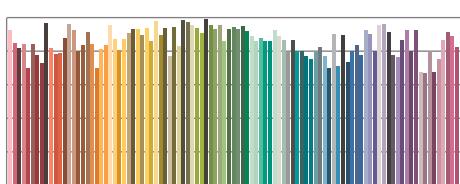


TM30 Colour vectors per hue bin

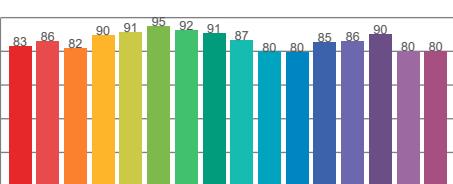


TM30 Colour distortion

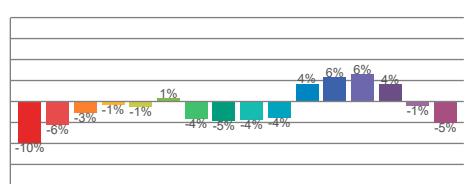
| Hue Bin | R _f | Shifts (%) | |
|---------|----------------|------------|------|
| | | Chroma | Hue |
| C1 | 83 | -10% | 1% |
| C2 | 86 | -6% | 6% |
| C3 | 82 | -3% | 9% |
| C4 | 90 | -1% | 5% |
| C5 | 91 | -1% | 2% |
| C6 | 95 | 1% | -1% |
| C7 | 92 | -4% | -1% |
| C8 | 91 | -5% | 2% |
| C9 | 87 | -4% | 9% |
| C10 | 80 | -4% | 12% |
| C11 | 80 | 4% | 13% |
| C12 | 85 | 6% | 5% |
| C13 | 86 | 6% | -7% |
| C14 | 90 | 4% | -6% |
| C15 | 80 | -1% | -15% |
| C16 | 80 | -5% | -11% |



TM30-18 R_f-values per reference colour

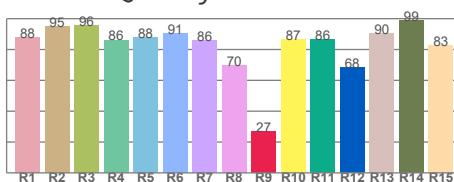


TM30-18 R_f-values per hue bin

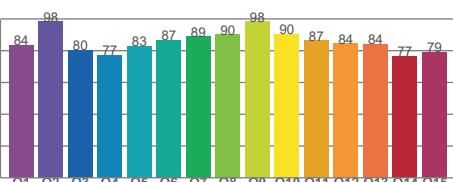


TM30 Chroma shift

Colour Quality details



Colour Rendering Index



Colour Quality Scale