

127-086 CW specific configuration

Introduction

Purpose of this Document

This document provides information for 127-086 CW. 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	4.0 W
Correlated Colour Temperature	16764 K
Total lumen output	340 lm
Efficiency	85 lm/W

Electrical measurement details

Input Power

RMS Input voltage feed. V_{RMS}	24.0 V
RMS Input current feed. I_{RMS}	0.167 A
Total input power	4.0 W

Frequency of input power	0 Hz
Power factor	1.0
Displacement power factor	0.7

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

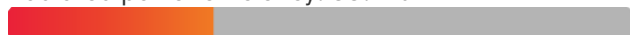
Input Power Curve

Voltage - Current



Efficiency

Radiated power efficiency: 33.2%



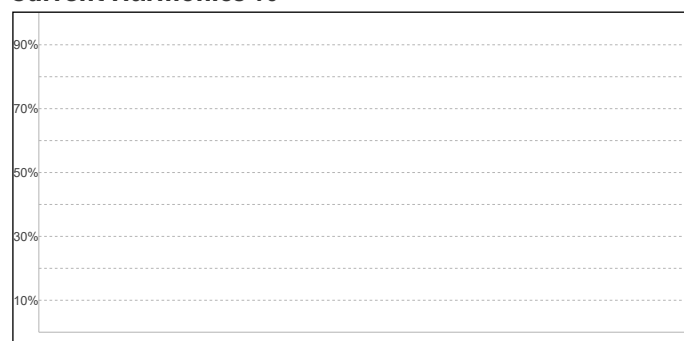
Lumen efficiency: 85 lm/W



Harmonics

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

Current Harmonics %



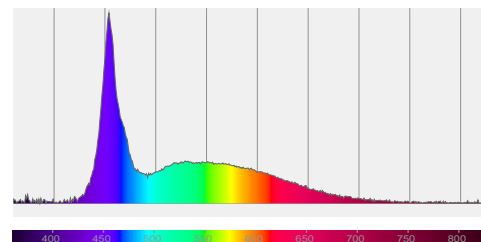
127-086 CW specific configuration

Colour measurement details

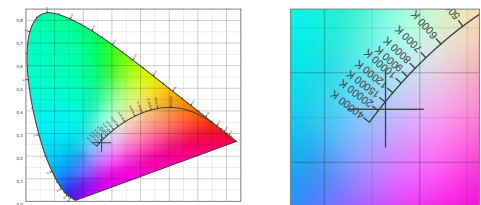
Total lumen output 340 lm
 Correlated Colour Temperature 16764 K
 Colour coordinates CIE 1931 (x;y) = (0.264;0.259)
 Colour deviation from BBL Duv = -0.0046

TM30-18 Colour Fidelity Index R_f 80.5
 TM30-18 Colour Gamut Index R_g 92.8
 Colour Rendering Index (Ra) CRI 87.2
 Colour Rendering Index. (red component) $R_9 = 58.1$

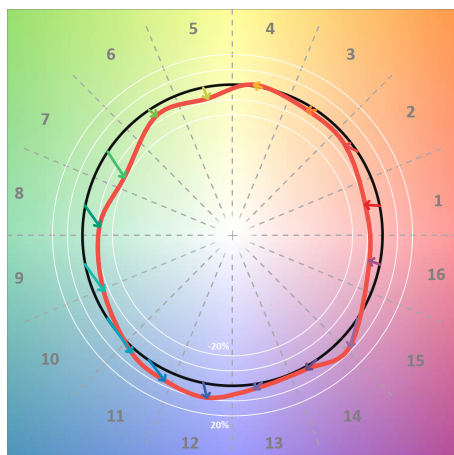
Colour Quality Scale CQS = 79.7
 Television Lighting Consistency Index TLCI = 63



Relative spectral power distribution



TM30 details

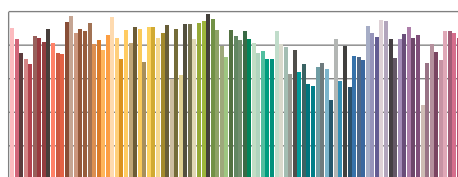


TM30 Colour vectors per hue bin

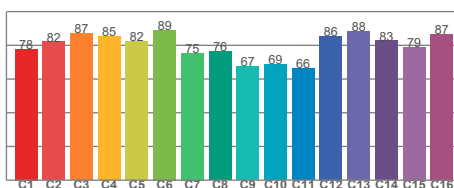


TM30 Colour distortion

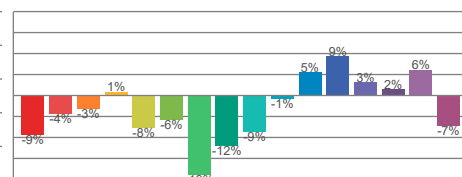
Hue Bin	R_f	Shifts (%)	
		Chroma	Hue
C1	78	-9%	3%
C2	82	-4%	8%
C3	87	-3%	5%
C4	85	1%	5%
C5	82	-8%	-2%
C6	89	-6%	-2%
C7	75	-19%	8%
C8	76	-12%	12%
C9	67	-9%	19%
C10	69	-1%	27%
C11	66	5%	16%
C12	86	9%	4%
C13	88	3%	-6%
C14	83	2%	-9%
C15	79	6%	-18%
C16	87	-7%	1%



TM30-18 R_f -values per reference colour

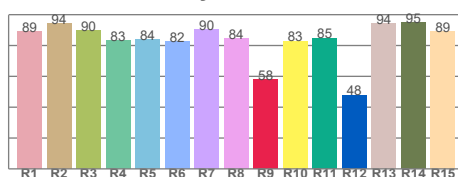


TM30-18 R_f -values per hue bin

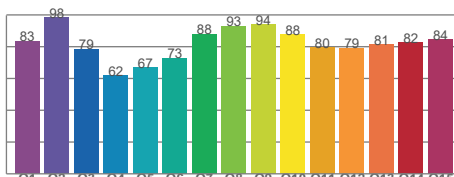


TM30 Chroma shift

Colour Quality details



Colour Rendering Index



Colour Quality Scale