

146-372 150W 4000K specific configuration
Floodlight | 100W/150W/200W | 100x60° | 3-CCT | light sensor

Introduction

Purpose of this Document

This document provides information for 146-372 150W 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	146 W
Correlated Colour Temperature	3975 K
Total lumen output	21860 lm
Efficiency	150 lm/W

Electrical measurement details

Input Power

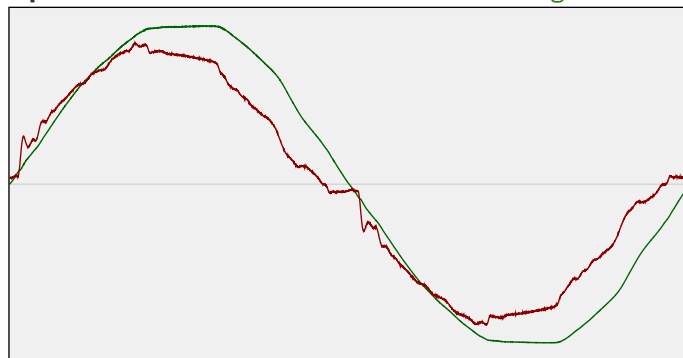
RMS Input voltage feed. V_{RMS}	230 V
RMS Input current feed. I_{RMS}	0.653 A
Total input power	146 W

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

Total harmonic distortion of the current	8.77%
Total harmonic distortion of the voltage	2.51%

Input Power Curve

Voltage - Current



Efficiency

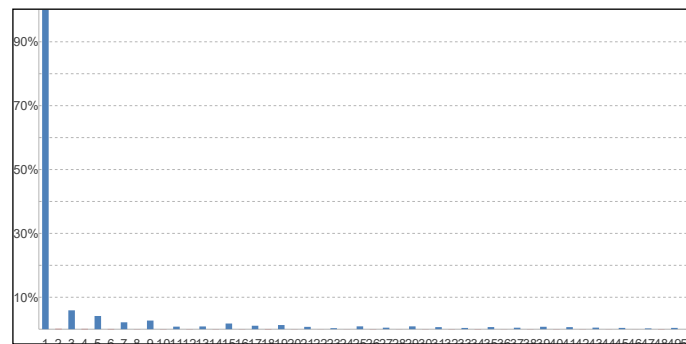
Radiated power efficiency: 46.3%

Lumen efficiency: 150 lm/W

Harmonics

3rd Harmonic	5.91%
5th Harmonic	4.14%
7th Harmonic	2.16%
9th Harmonic	2.71%
11th Harmonic	0.8%

Current Harmonics %



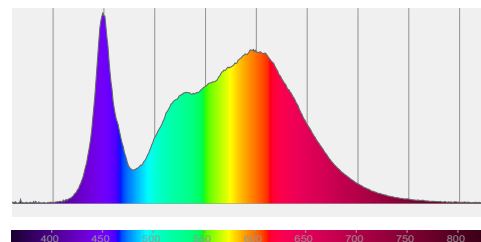
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Colour measurement details

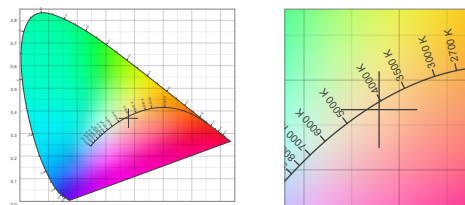
Total lumen output 21860 lm
 Correlated Colour Temperature 3975 K
 Colour coordinates CIE 1931 (x;y) = (0.379;0.367)
 Colour deviation from BBL Duv = -0.0041

TM30-18 Colour Fidelity Index R_f 83.5
 TM30-18 Colour Gamut Index R_g 98.8
 Colour Rendering Index (Ra) CRI 84.4
 Colour Rendering Index. (red component) $R_9 = 17.3$

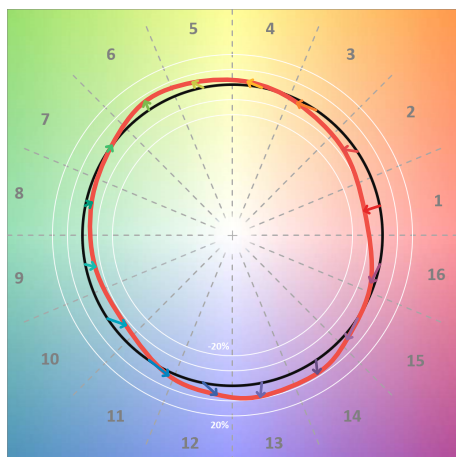
Colour Quality Scale CQS = 82.0
 Television Lighting Consistency Index TLCI = 67



Relative spectral power distribution



TM30 details

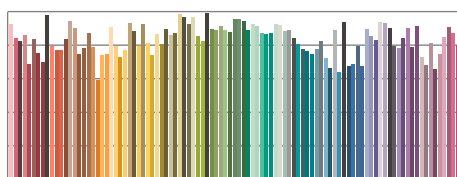


TM30 Colour vectors per hue bin

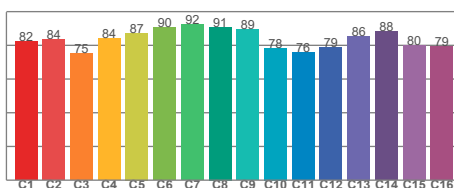


TM30 Colour distortion

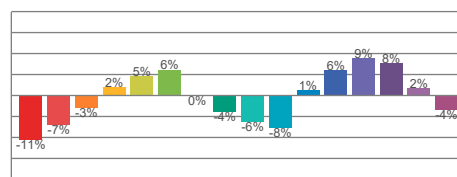
Hue Bin	R_f	Shifts (%)	
		Chroma	Hue
C1	82	-11%	-1%
C2	84	-7%	6%
C3	75	-3%	13%
C4	84	2%	10%
C5	87	5%	6%
C6	90	6%	-1%
C7	92	0%	-5%
C8	91	-4%	-3%
C9	89	-6%	3%
C10	78	-8%	10%
C11	76	1%	16%
C12	79	6%	10%
C13	86	9%	-3%
C14	88	8%	-4%
C15	80	2%	-15%
C16	79	-4%	-13%



TM30-18 R_f -values per reference colour

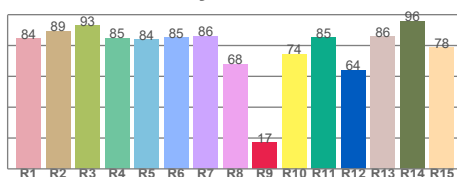


TM30-18 R_f -values per hue bin

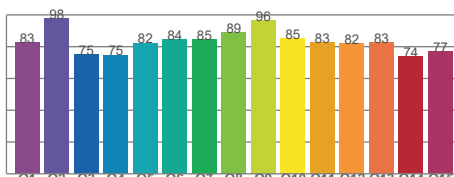


TM30 Chroma shift

Colour Quality details



Colour Rendering Index



Colour Quality Scale