

146-340 + 146-347 specific configuration
Floodlight pro | 100W | 120° | extra warm white 2000K

Introduction

Purpose of this Document

This document provides information for 146-340 + 146-347. 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	199.6 W
Correlated Colour Temperature	3052 K
Total lumen output	26025 lm
Efficiency	130 lm/W

Electrical measurement details

Input Power

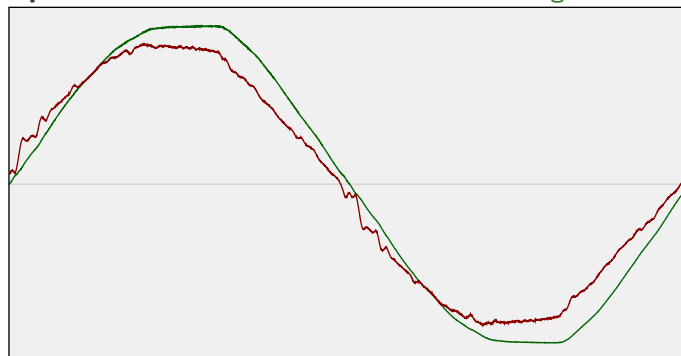
RMS Input voltage feed. V_{RMS}	233 V
RMS Input current feed. I_{RMS}	0.867 A
Total input power	199.6 W

Frequency of input power	50 Hz
Power factor	0.99
Displacement power factor	0.99

Total harmonic distortion of the current	3.52%
Total harmonic distortion of the voltage	2.56%

Input Power Curve

Voltage - Current



Efficiency

Radiated power efficiency: 37.1%



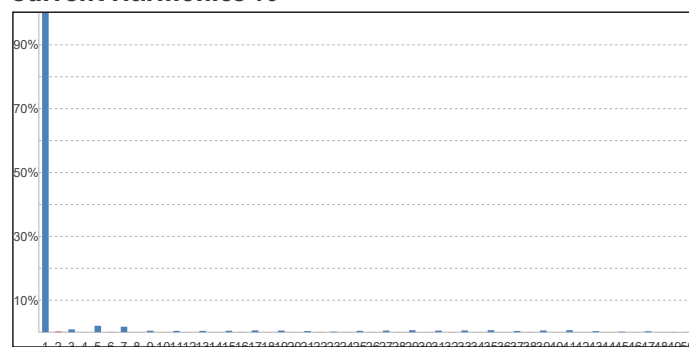
Lumen efficiency: 130 lm/W



Harmonics

3rd Harmonic	0.89%
5th Harmonic	2.01%
7th Harmonic	1.72%
9th Harmonic	0.47%
11th Harmonic	0.41%

Current Harmonics %



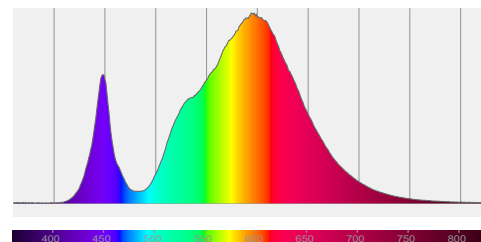
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Colour measurement details

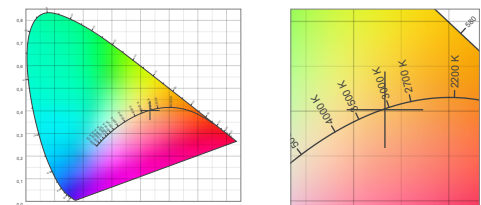
Total lumen output 26025 lm
 Correlated Colour Temperature 3052 K
 Colour coordinates CIE 1931 (x;y) = (0.433;0.402)
 Colour deviation from BBL Duv = -0.0004

TM30-18 Colour Fidelity Index R_f 73.2
 TM30-18 Colour Gamut Index R_g 96.6
 Colour Rendering Index (Ra) CRI 72.0
 Colour Rendering Index. (red component) $R_9 = -27.8$

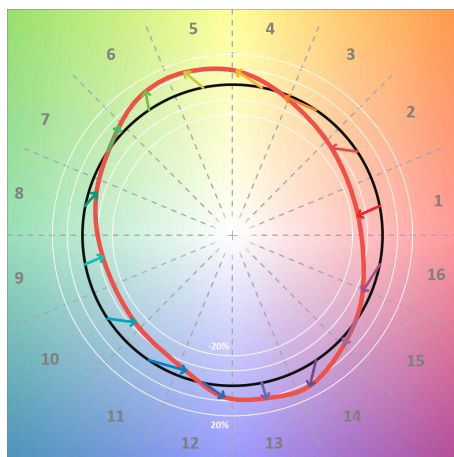
Colour Quality Scale CQS = 70.8
 Television Lighting Consistency Index TLCI = 43



Relative spectral power distribution



TM30 details

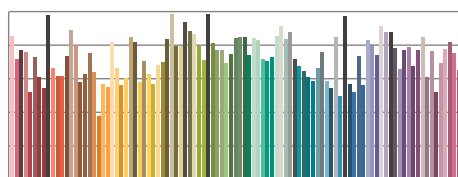


TM30 Colour vectors per hue bin

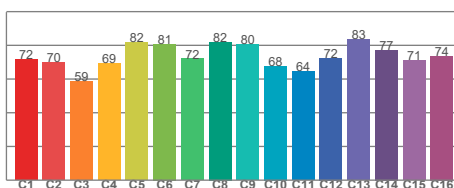


TM30 Colour distortion

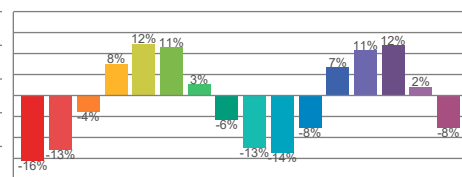
Hue Bin	R_f	Shifts (%)	
		Chroma	Hue
C1	72	-16%	-4%
C2	70	-13%	11%
C3	59	-4%	22%
C4	69	8%	19%
C5	82	12%	10%
C6	81	11%	-5%
C7	72	3%	-18%
C8	82	-6%	-10%
C9	80	-13%	-3%
C10	68	-14%	12%
C11	64	-8%	24%
C12	72	7%	15%
C13	83	11%	1%
C14	77	12%	-13%
C15	71	2%	-19%
C16	74	-8%	-20%



TM30-18 R_f -values per reference colour

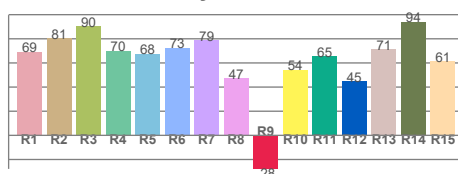


TM30-18 R_f -values per hue bin

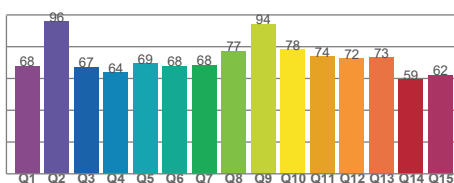


TM30 Chroma shift

Colour Quality details



Colour Rendering Index



Colour Quality Scale