

146-350 + 146-356 specific configuration
Floodlight pro | 300W | 120° | warm white 3000K

Introduction

Purpose of this Document

This document provides information for 146-350 + 146-356. 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	297.8 W
Correlated Colour Temperature	5149 K
Total lumen output	30367 lm
Efficiency	102 lm/W

Electrical measurement details

Input Power

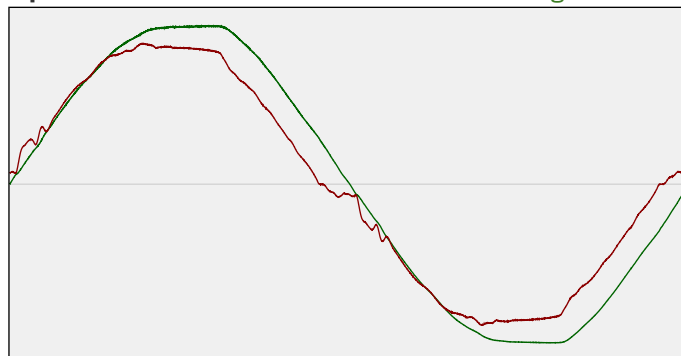
RMS Input voltage feed. V_{RMS}	230 V
RMS Input current feed. I_{RMS}	1.32 A
Total input power	297.8 W

Frequency of input power	50 Hz
Power factor	0.98
Displacement power factor	0.98

Total harmonic distortion of the current	7.04%
Total harmonic distortion of the voltage	2.49%

Input Power Curve

Voltage - Current



Efficiency

Radiated power efficiency: 30.4%



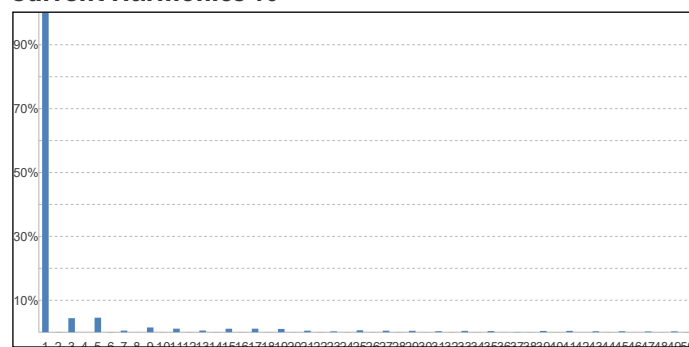
Lumen efficiency: 102 lm/W



Harmonics

3rd Harmonic	4.4%
5th Harmonic	4.55%
7th Harmonic	0.5%
9th Harmonic	1.48%
11th Harmonic	1.11%

Current Harmonics %



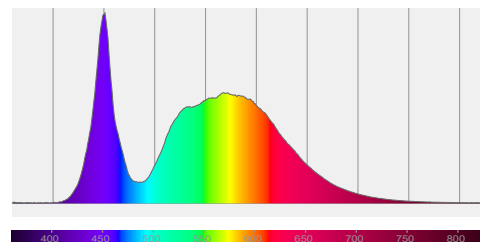
146-350 + 146-356 specific configuration

Colour measurement details

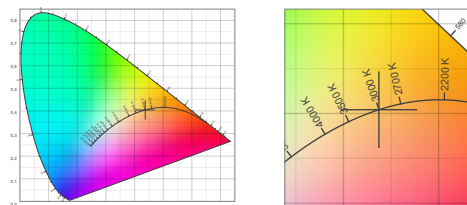
Total lumen output 30367 lm
 Correlated Colour Temperature 5149 K
 Colour coordinates CIE 1931 (x;y) = (0.437;0.404)
 Colour deviation from BBL Duv = 0.0007

TM30-18 Colour Fidelity Index R_f 73.8
 TM30-18 Colour Gamut Index R_g 94.9
 Colour Rendering Index (Ra) CRI 73.3
 Colour Rendering Index. (red component) $R_9 = -27.4$

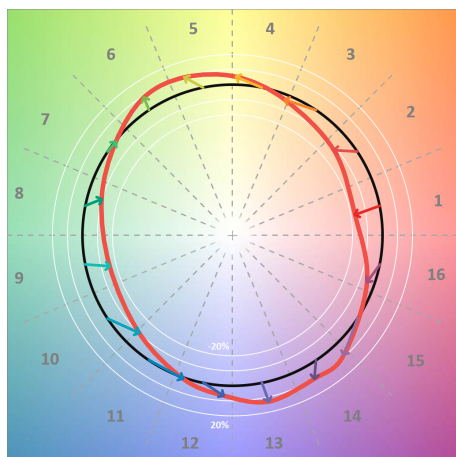
Colour Quality Scale CQS = 70.5
 Television Lighting Consistency Index TLCI = 32



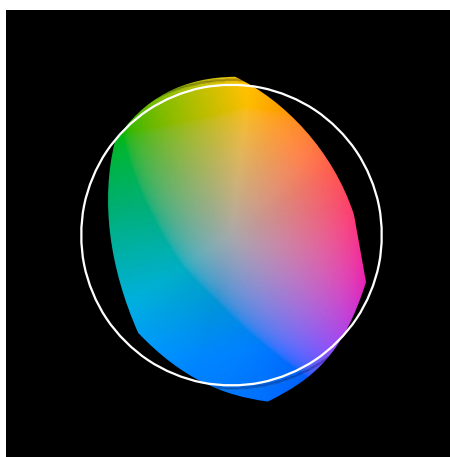
Relative spectral power distribution



TM30 details

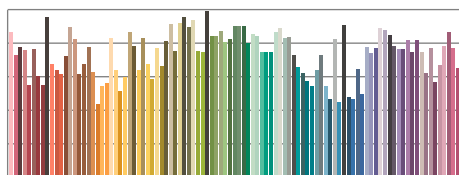


TM30 Colour vectors per hue bin

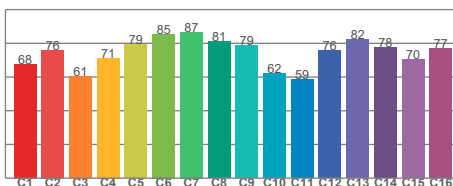


TM30 Colour distortion

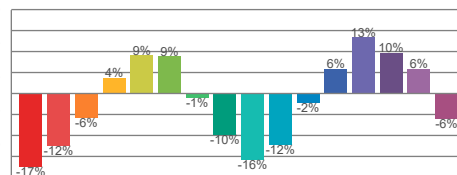
Hue Bin	R_f	Shifts (%)	
		Chroma	Hue
C1	68	-17%	-3%
C2	76	-12%	9%
C3	61	-6%	21%
C4	71	4%	18%
C5	79	9%	11%
C6	85	9%	-2%
C7	87	-1%	-8%
C8	81	-10%	-6%
C9	79	-16%	4%
C10	62	-12%	20%
C11	59	-2%	26%
C12	76	6%	15%
C13	82	13%	2%
C14	78	10%	-8%
C15	70	6%	-25%
C16	77	-6%	-13%



TM30-18 R_f -values per reference colour

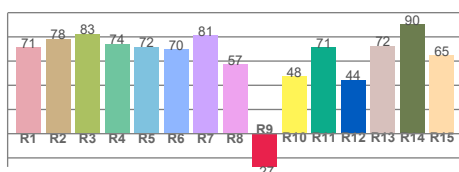


TM30-18 R_f -values per hue bin

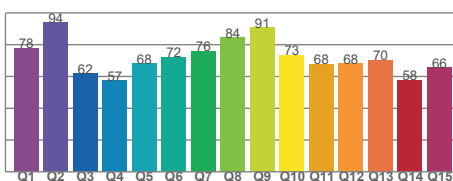


TM30 Chroma shift

Colour Quality details



Colour Rendering Index



Colour Quality Scale