



LM-79 Test Report

Standards

IES LM-79-2008

IES TM-30-2015

CIE 13.3-1995

Product SKU

XFL-SW-244.4-24022-2795

Test Conditions

Test Temperature: 24°C

Test Sample: 300mm

Power Supply: HP

Voltage: 24V

Power Consumption: 4.8W

Test Date

7/9/2020

Prepared By

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Approved By

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The results contained in this report pertain only to the tested sample.
Photometric & Colorimetry data measured in accordance to IES LM-79-2008 standards, at Xicato.

Summary of Results

SKU: XFL-SW-244.4-24022-2795

Luminous Flux: 476lm

CCT: 2708K

mDUV: 0.7

Voltage: 24V

Current: 200mA

Power Consumption: 4.8W

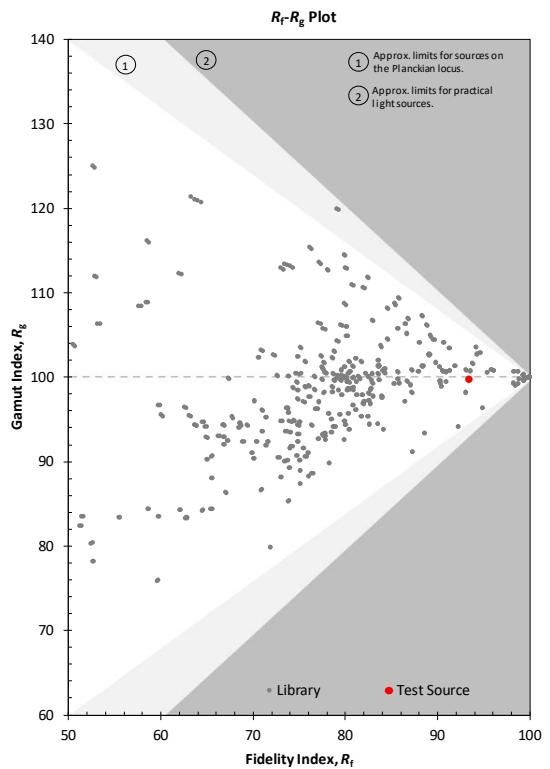
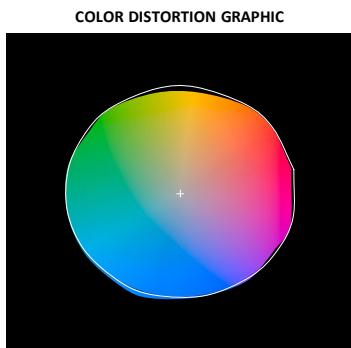
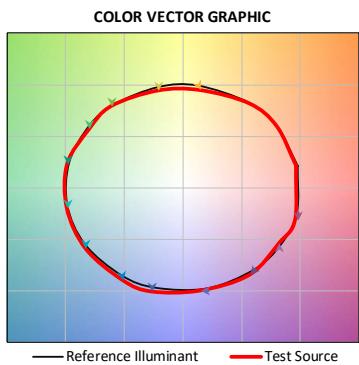
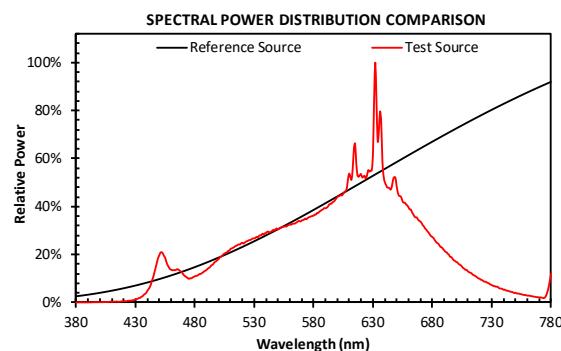
Efficacy: 98.5LPW

BASIC RESULTS

Source:

Test Source

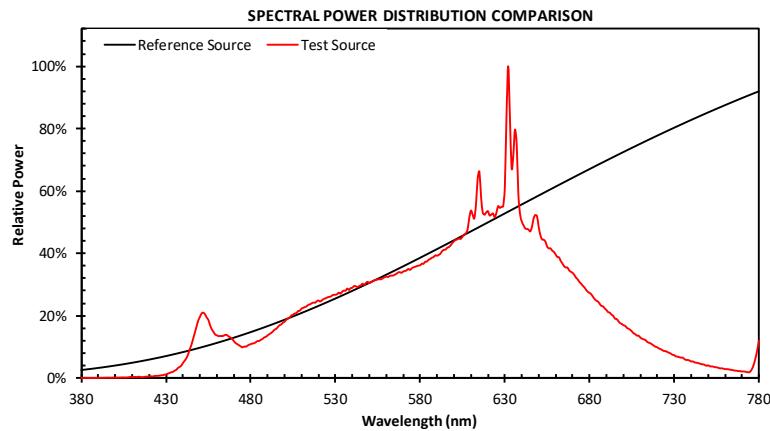
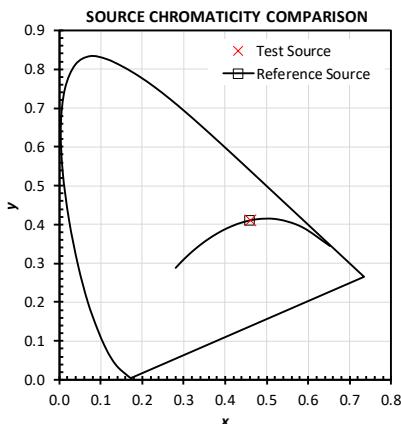
R_f	93
R_g	100
CCT (K)	2708
D_{uv}	0.0007
x	0.4605
y	0.4127
CIE R_a	97



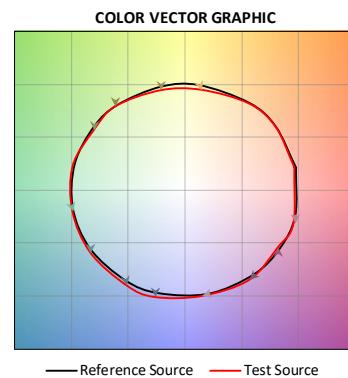
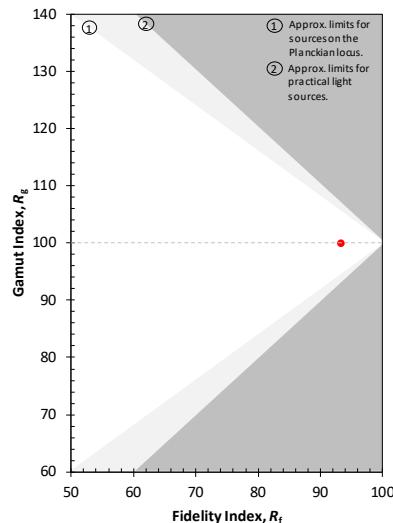
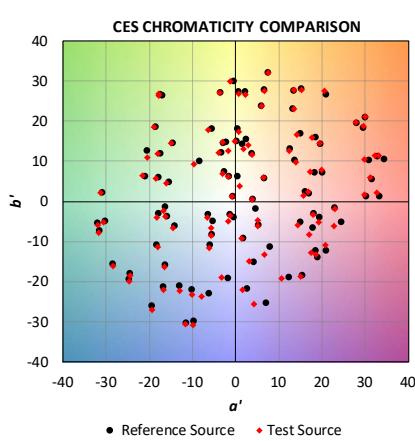
Summary Results

Metric	Test	Reference	Notes	Metric	Test	Reference	Notes
R_f	93	100	IES TM-30-15 Fidelity Index	CCT	2708	2708	Correlated Color Temperature
R_g	100	100	IES TM-30-15 Gamut Index	D_{uv}	0.0007	0.0000	Distance from the blackbody locus
CIE R_a	97	100	CIE Test Color Method General Index	x	0.4605	0.4592	CIE 1931 chromaticity coordinate
R_g	89	100	CIE Test Color Method Sample Nine Score	y	0.4127	0.4105	CIE 1931 chromaticity coordinate
LER	280	148	Luminous Efficacy of Radiation	u	0.2620	0.2622	CIE 1960 chromaticity coordinate
$R_{f,skin}$	95	100	Average of CES15 and CES18 (skin)	v	0.3522	0.3515	CIE 1960 chromaticity coordinate
				u'	0.2620	0.2622	CIE 1976 chromaticity coordinate
				v'	0.5283	0.5272	CIE 1976 chromaticity coordinate

Source Properties



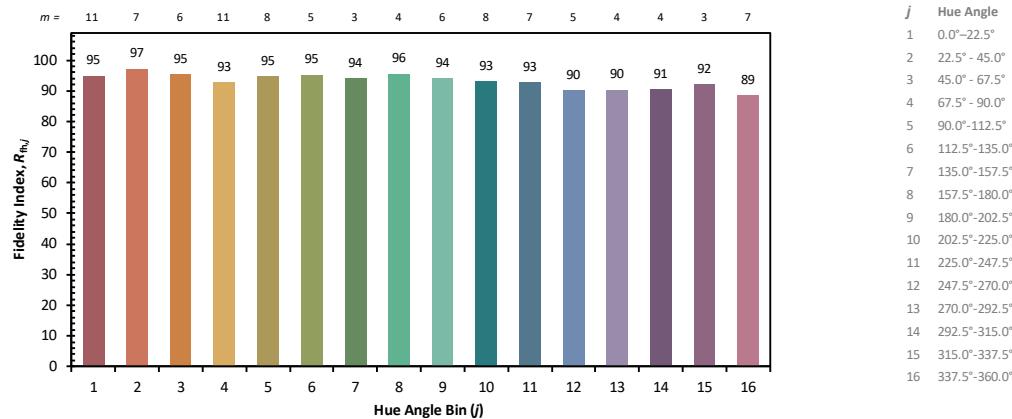
General Color Rendition



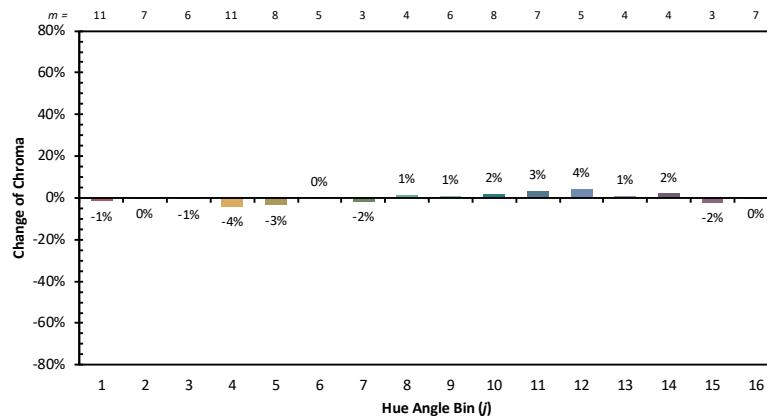
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Color Rendition by Hue

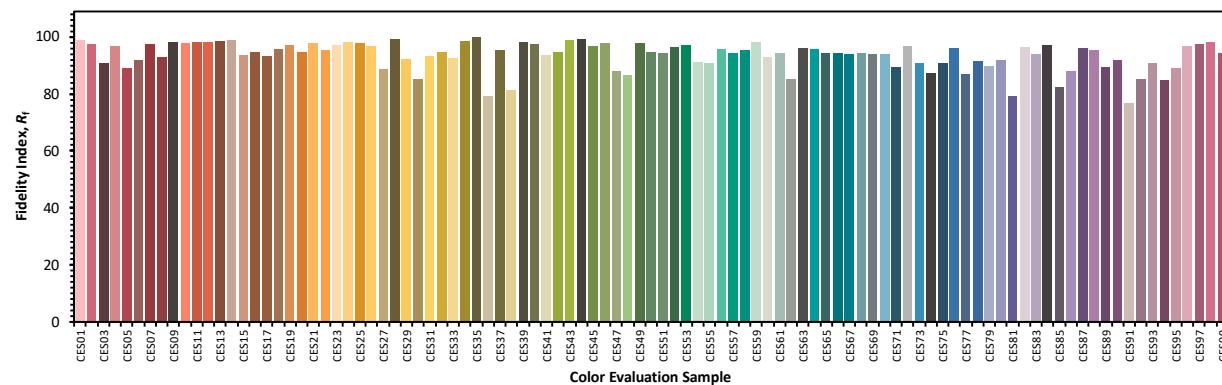


This chart displays the average Fidelity Index for all samples within the hue bin. The number of samples per bin, which can vary based on the CCT used for the calculation, is shown at the top. The color of the bar is based on the average chromaticity under the 5000 K reference illuminant; the colors may not display accurately depending on the calibration of the monitor, and should be used for orientation only.



This chart displays the change in chroma for the average sample within each hue bin. The number of samples per bin, which can vary based on the CCT used for the calculation, is shown at the top. The color of the bar is based on the average chromaticity under the 5000 K reference illuminant; the colors may not display accurately depending on the calibration of the monitor, and should be used for

Color Fidelity by Sample



This chart displays the Fidelity Index for each of the 99 CES. The CES are arranged by their hue angle under the 5000 K reference source, which was also used to determine the color of each bar. The colors are approximate and depend on proper monitor calibration. Some colors may be outside of the gamut of the monitor, and will not be displayed accurately.

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