



8165 E Kaiser Blvd. Anaheim, CA 92808  
www.lightlaboratory.com

Report No: L022211222



**Report No:** L022211222

**Issue Date:** 3/10/2022

**Report Prepared For:** FX Luminaire / Lumascape  
1940 Diamond Street, San Marcos, CA, 92078

**Model Number:** LF-1LED-W-FW / sSRP17-1LED-W-WT

**Test:** Photometric/Colorimetric/Electrical Test

**Standards Used:** Appropriate part or all test guidelines were used for test performed:

*IESNA LM79: 2019* Approved Methods for Electrical and Photometric Measurements of Solid-State Lighting Products

*ANSI NEMA ANSLG C78.377: 2017* Specification of the Chromaticity of Solid State Lighting Products

*ANSI C82.77-10:2014* Harmonic Emission Limits-Related Quality Requirements for Lighting Equipment

**Description of Sample:** Client submitted the sample. Received in working and undamaged condition. No modifications were necessary.

**Special Test Condition:** Fixture is tested with no special conditions.

**Date of Tests:** 3/10/22

**Seasoning of Sample:** No seasoning was performed in accordance with IESNA LM-79.

#### Equipment List

Equipment Used	Model No	Stock No	Calibration Due Date
Chroma Programmable AC Source	61604	PS-AC02	--
Yokogawa Digital Power Meter	WT210	MT-EL06-S4	4/7/23
HP Power Supply	6032A	PS-DC05-S2	--
Fluke Digital Thermometer	52K/J	MT-TP05	3/17/23
LLI Type C Goniophotometer System	RMG-C-MKII	CD-LL04-GC	--
LLI 2M Sphere	2MR97	CD-SN03-S2	--
LLI Spectroradiometer	SPR-3000	MT-SC01-S2	Before Use

### General Information

<b>Manufacturer:</b>	FX Luminaire / Lumascape
<b>Model Number:</b>	LF-1LED-W-FW / sSRP17-1LED-W-WT
<b>Driver Model Number:</b>	NONE

### Test Summary

<b>Total Lumens:</b>	95.00
<b>Efficacy:</b>	51.85
<b>Color Redering Index:</b>	84.1
<b>Correlated Color Temperature:</b>	2600
<b>Input Voltage (VAC/60Hz):</b>	12.00
<b>Input Current (Amp):</b>	0.1804
<b>Input Power (W):</b>	1.83
<b>Input Power Factor:</b>	0.8464
<b>Current ATHD (%):</b>	50.6%

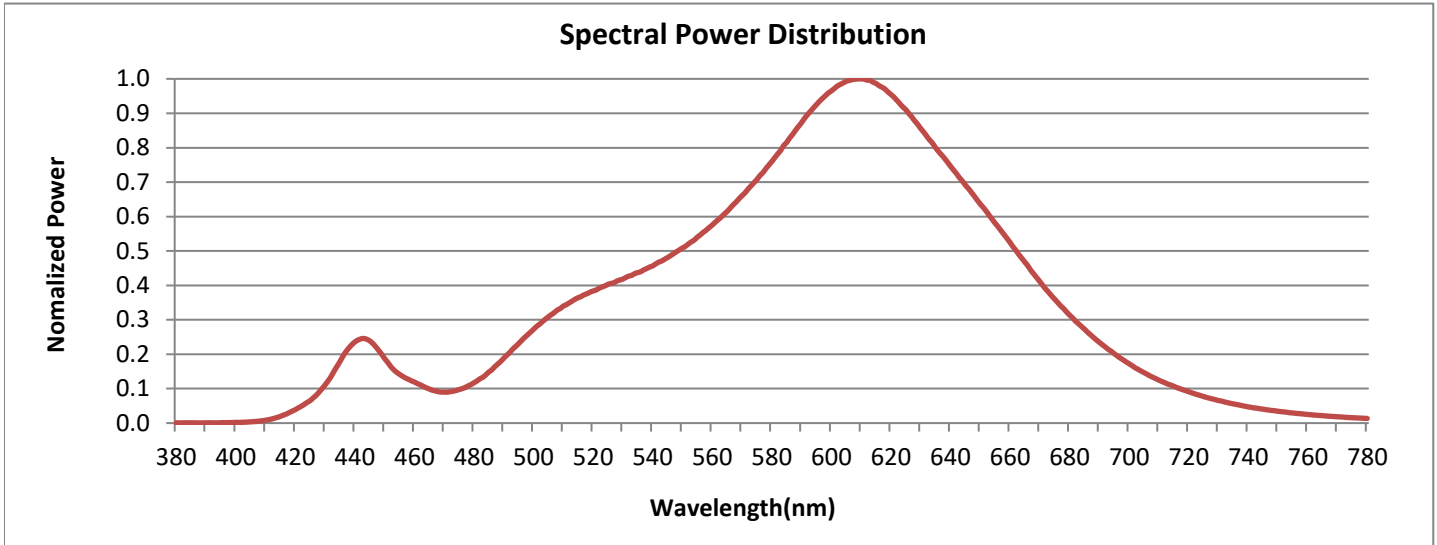
### Test Condition

<b>Ambient Temperature (°C):</b>	25.0
<b>Stabilization Time (Hours):</b>	0:40
<b>Total Operating Time (Hours):</b>	1:00



FIG. 1 LUMINAIRE

## Colorimetry Test Results

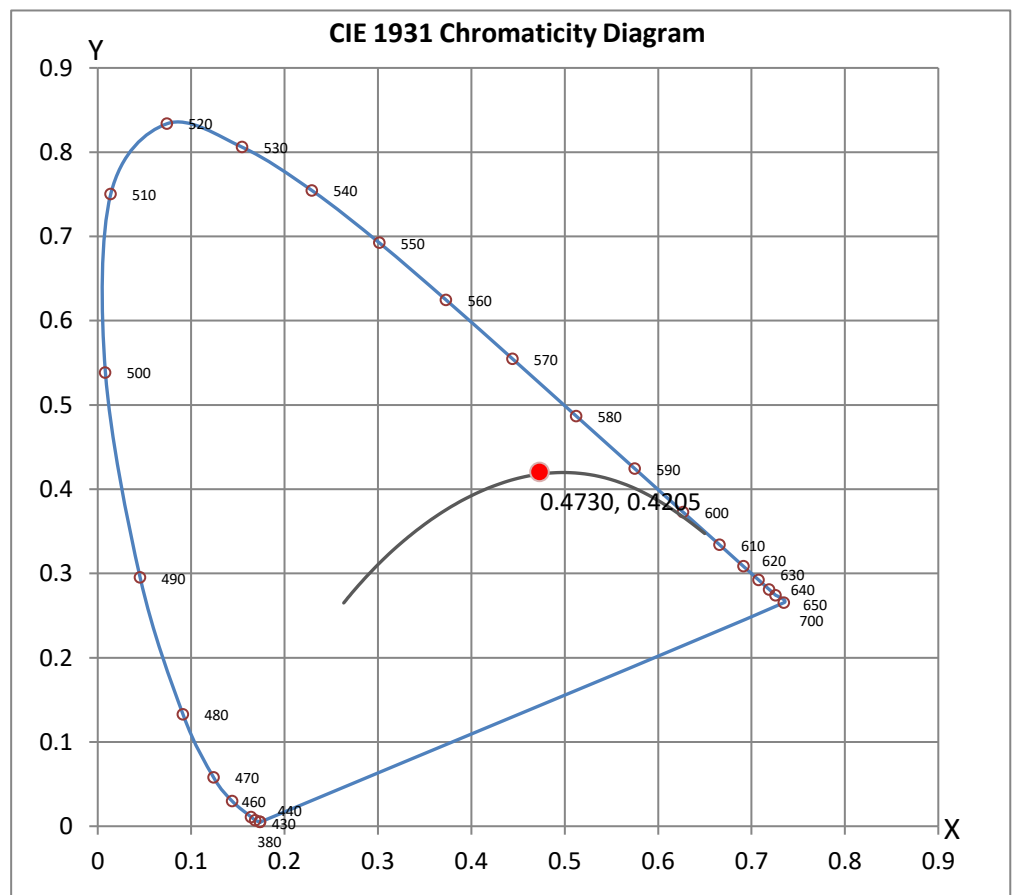


### CRI & CCT

x	0.4730
y	0.4205
u'	0.2665
v'	0.5330
CRI	84.10
CCT	2600
Duv	0.00261

### R Values

R1	82.03
R2	90.72
R3	98.24
R4	84.48
R5	83.06
R6	91.45
R7	83.44
R8	59.05
R9	10.70
R10	80.23
R11	85.72
R12	80.09
R13	83.79
R14	99.47
R15	73.14





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## Test Methods

### Photometric Measurements - Goniophotometer

A Custom Light Laboratory Type C Rotating Mirror Goniophotometer was used to measure candelas(intensity) at each angle of distribution as defined by IESNA for the appropriate fixture type.

Ambient temperature is set to 25°C and is measured from the center of the fixture, within 1ft from the outside of the fixture. Temperature is maintained at 25°C throughout the testing process and the sample is stabilized for at least 30mins and longer as necessary for the sample to achieve stabilization.

Electrical measurements are measured using the listed equipment.

### Spectral Measurements - Integrating Sphere

A Sensing Spectroradiometer SPR-3000, in conjunction with Light Laboratory 2 meter integrating sphere was used to measure chromaticity coordinates, correlated color temperature(CCT) and the color rendering index(CRI) for each sample.

Ambient temperature is set to 25°C and is measured from the center of the fixture, within 1ft from the outside of the fixture. Temperature is maintained at 25°C throughout the testing process and the sample is stabilized for at least 30mins and longer as necessary for the sample to achieve stabilization.

Electrical measurements are measured using the listed equipment.

### Disclaimers:

The results related only to the samples as received and tested. This report must not be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST or any agency of the Federal Government.

Report Prepared by : Kunjan Modi

Test Report Reviewed by:

Steve Kang  
Quality Assurance

*\*Attached are photometric data reports.*



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## Photometric Test Report

### IES ROAD REPORT

PHOTOMETRIC FILENAME : L022211222.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022211222

[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)

[ISSUEDATE] 3/10/2022

[MANUFAC] FX Luminaire / Lumascape

[LUMCAT] LF-1LED-W-FW / sSRP17-1LED-W-WT

[LUMINAIRE] Lumiled, 1LED, 2700K

[BALLASTCAT] NONE

[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND  
[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.

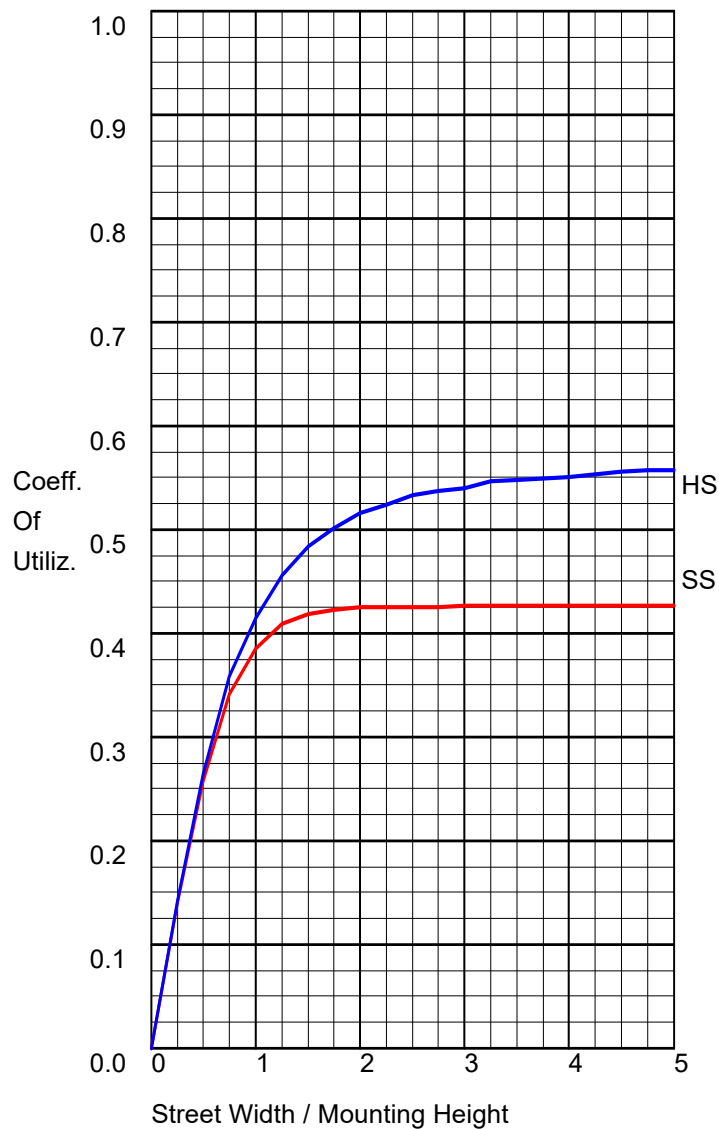
[INPUT] 12VAC

[TEST PROCEDURE] IESNA:LM-79-08

### CHARACTERISTICS

IES Classification	N.A.
Longitudinal Classification	N.A.
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	95
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	52
Total Luminaire Watts	1.83
Ballast Factor	1.00
Maximum Candela	38
Maximum Candela Angle	180H 5V
Maximum Candela (<90 Degrees Vertical)	38
Maximum Candela Angle (<90 Degrees Vertical)	180H 5V
Maximum Candela At 90 Degrees Vertical	3 (3.2% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	6 (6.3% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

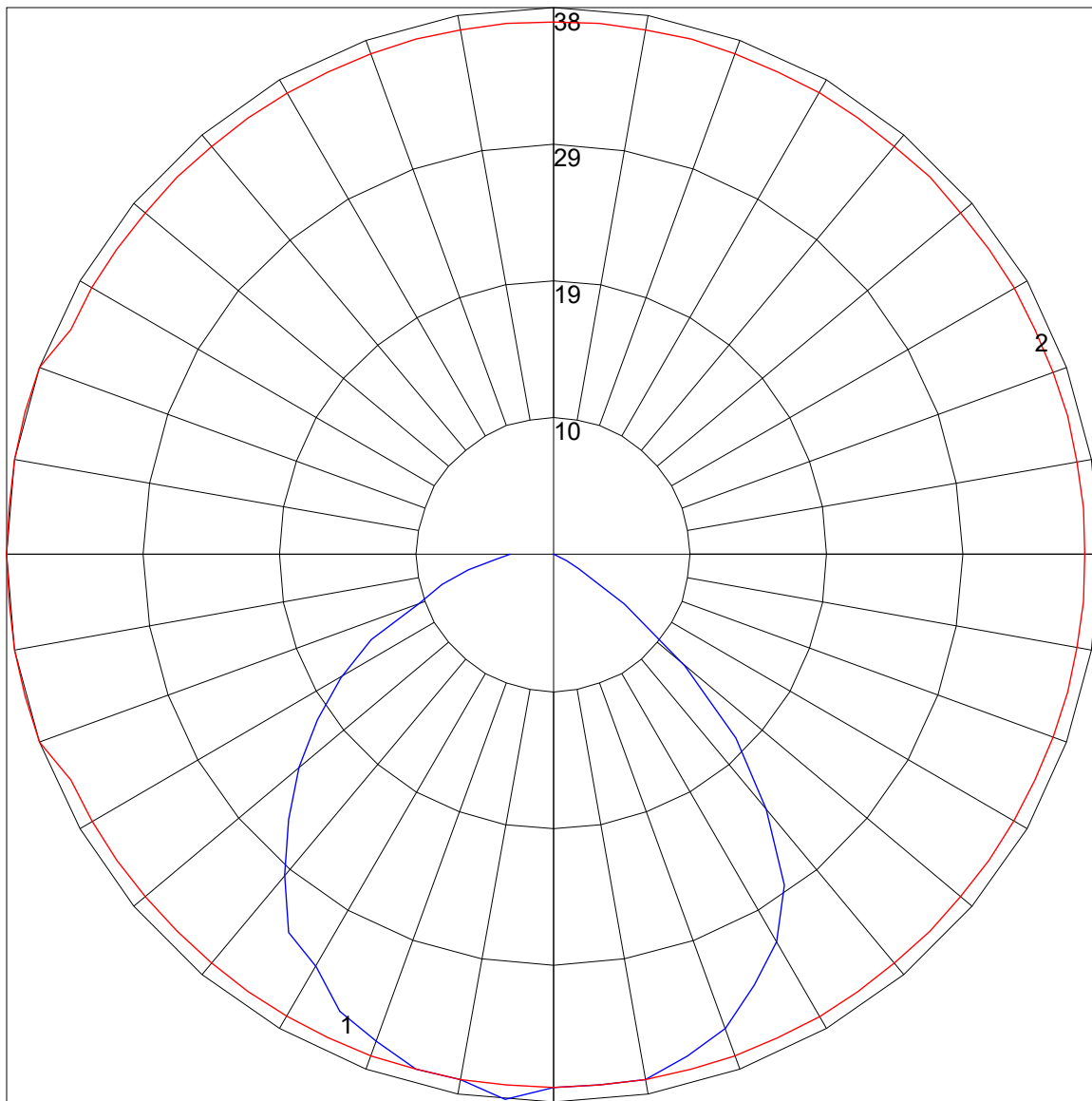
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	40.4	42.7
Downward House Side	54.3	57.3
Downward Total	94.7	99.9
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	94.7	99.9

POLAR GRAPH



Maximum Candela = 38 Located At Horizontal Angle = 180, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (180 - 0) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE

