Replacement Parts

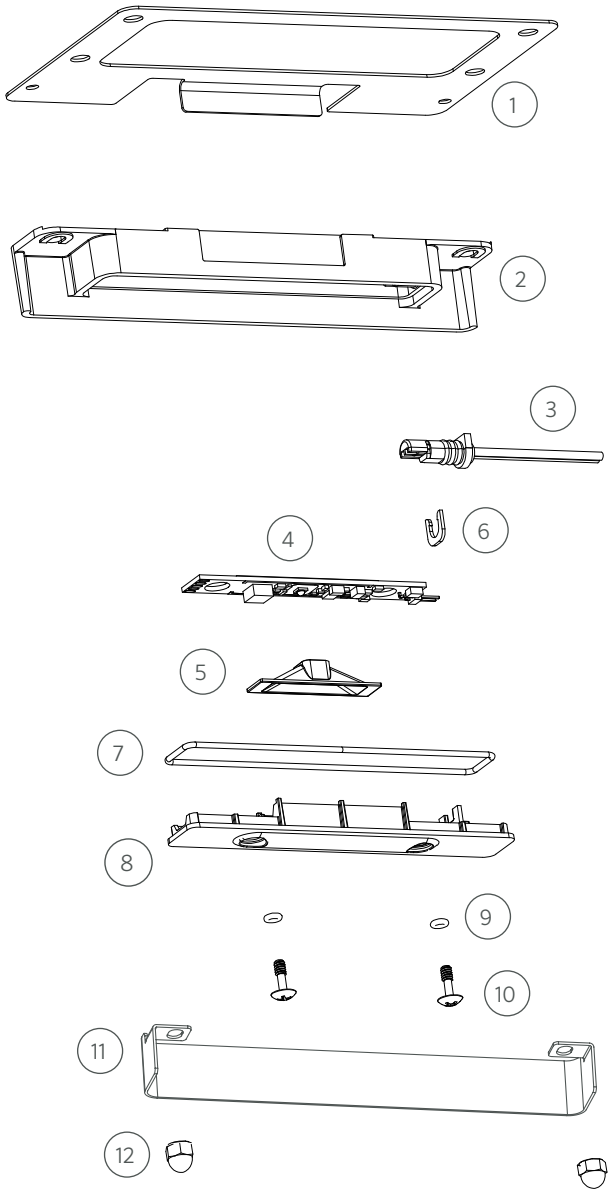
ITEM	DESCRIPTION	PART #
1	Mounting Plate	755300
2	Housing	-
3	Socket, Horizontal Pins, 10' (3 m)	250028430000
3	Socket, Vertical Pins, 10' (3 m)	752601
4	LED Board	See LED Chart
5	Reflector	See LED Chart
6	Socket Clip	755800
7	O-Ring for Lens	See LED Chart
8	Lens	See LED Chart
9	O-RIng for Screws	See LED Chart
10	Screw, #6-32 x 7⁄16"	See LED Chart
11	Optional Faceplate	See Faceplate Chart
12	Acorn Nut, #8-32	250014800000

Faceplate Replacement

ITEM	DESCRIPTION	PART #
11	Bronze	757001
	Desert Granite	757006
	Sedona Brown	757007
	Weathered Iron	757009
	Black	757014
	Flat White	757015
	White Gloss	757016
	Almond	757019
	Silver	757021
	Copper	756800
	Stainless Steel	756900
	Antique Bronze, Brass	755412
	Antique Bronze, Copper	756812
	Brass	755400
	Antique Tumbled, Brass	755420
	Antique Tumbled, Copper	756820

LED Replacement

ITEM	DESCRIPTION	PART #
4	1 LED Linear Board, Horizontal Pins, 2700K	755903
4	1 LED Linear Board, Horizontal Pins, 3900K	755904
4	ZD 1 LED Linear Board, Horizontal Pins, 2700K	755905
4	ZD 1 LED Linear Board, Horizontal Pins, 3900K	755906
4	1 LED Linear Board, Vertical Pins, 3900K	755901
4	ZD 1 LED Linear Board, Vertical Pins, 3900K	755902
4	ZDC Linear Board, Horizontal Pins, Amber	ZDCKITR
5, 7-10	Lens Assembly, Horizontal Pins	LFLA2
5, 7-10	Lens Assembly, Vertical Pins, Clear	LFLA
5, 7-10	Lens Assembly, Horizontal Pins, ZDC	LFZDCLA
8	Lens, Amber, Vertical Pins	755601



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www.lightlaboratory.com

NVLAP TESTING
NVLAP LAB CODE 200927-0

Report No: L022211222R02 **Issue Date: 3/28/2023**

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

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General Information	
Manufacturer:	FX Luminaire / Lumascape
Model Number:	LF-1LED-W-FW / sSRP17-1LED-W-WT
Driver Model Number:	NONE

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

Test Condition	
Ambient Temperature (°C):	25.0
Stabilization Time (Hours):	0:40
Total Operating Time (Hours):	1:00

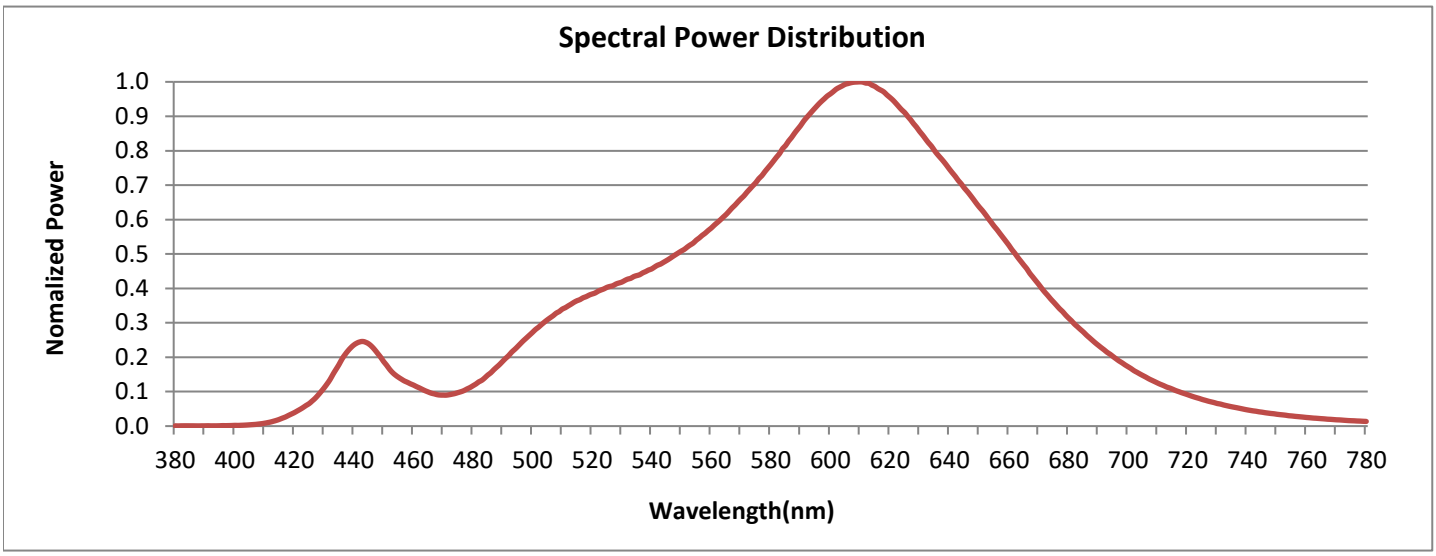


FIG. 1 LUMINAIRE

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Colorimetry Test Results

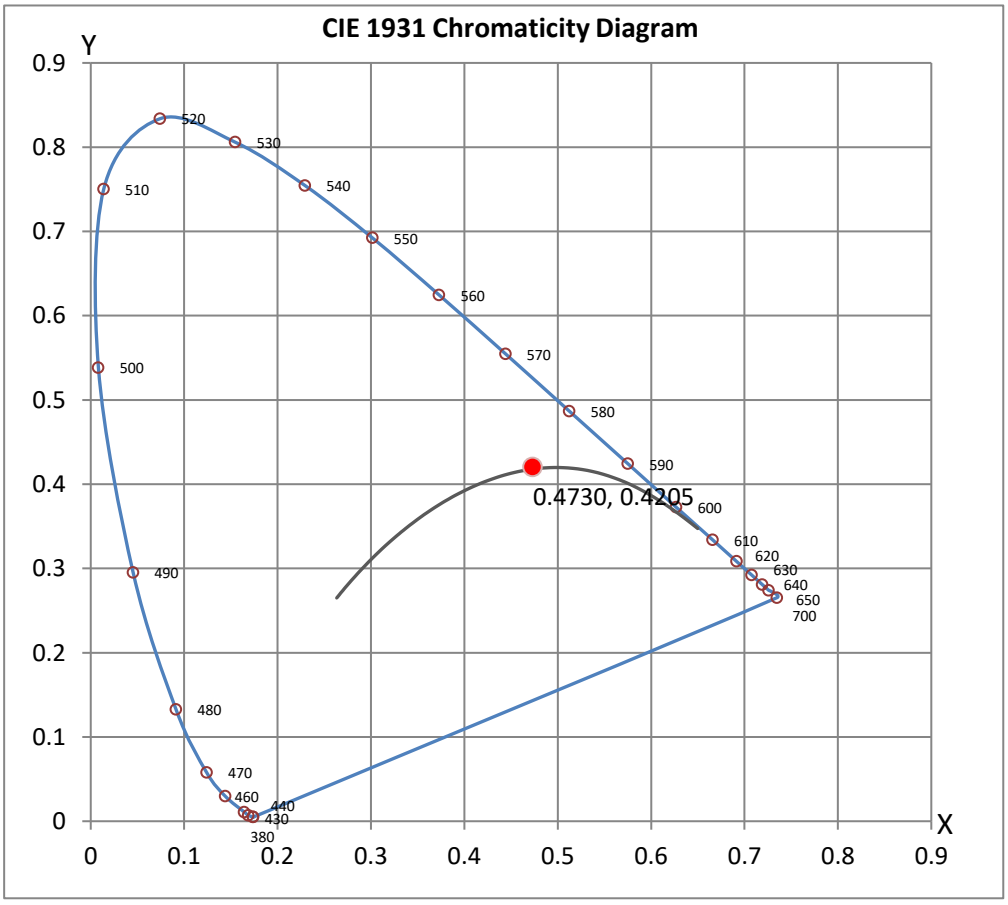


CRI & CCT

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^{o}C and is measured from the center of the fixture, within 1ft from the outside of the fixture. Temperature is maintained at 25^{o}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^{o}C and is measured from the center of the fixture, within 1ft from the outside of the fixture. Temperature is maintained at 25^{o}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 : L022211222R02.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L022211222R02
[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 FACTOREDFOR 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
Upward Waste Light Ratio	0.00
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)

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Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES ROAD REPORT
PHOTOMETRIC FILENAME : L022211222R01.IES

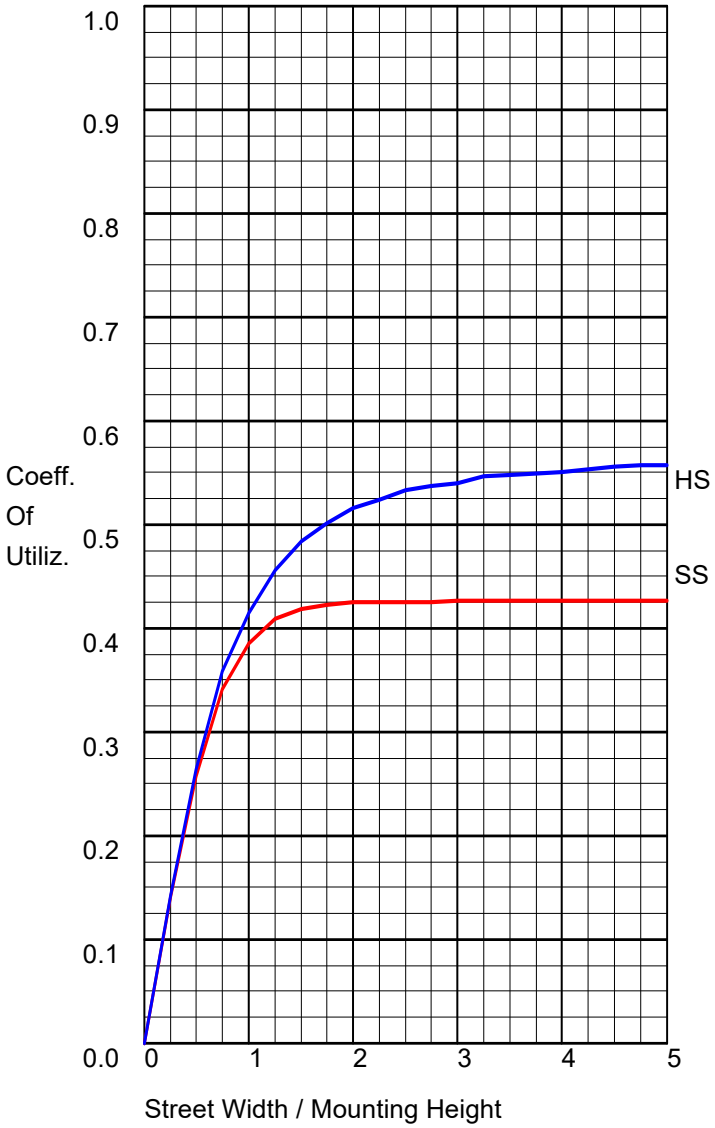
LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	14.5	N.A.	15.3
FM - Front-Medium (30-60)	22.9	N.A.	24.1
FH - Front-High (60-80)	3.0	N.A.	3.1
FVH - Front-Very High (80-90)	0.1	N.A.	0.1
BL - Back-Low (0-30)	14.8	N.A.	15.6
BM - Back-Medium (30-60)	28.1	N.A.	29.6
BH - Back-High (60-80)	9.7	N.A.	10.2
BVH - Back-Very High (80-90)	1.7	N.A.	1.8
UL - Uplight-Low (90-100)	0.3	N.A.	0.3
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	95.1	N.A.	100.0
BUG Rating	B0-U1-G0		

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COEFFICIENTS OF UTILIZATION



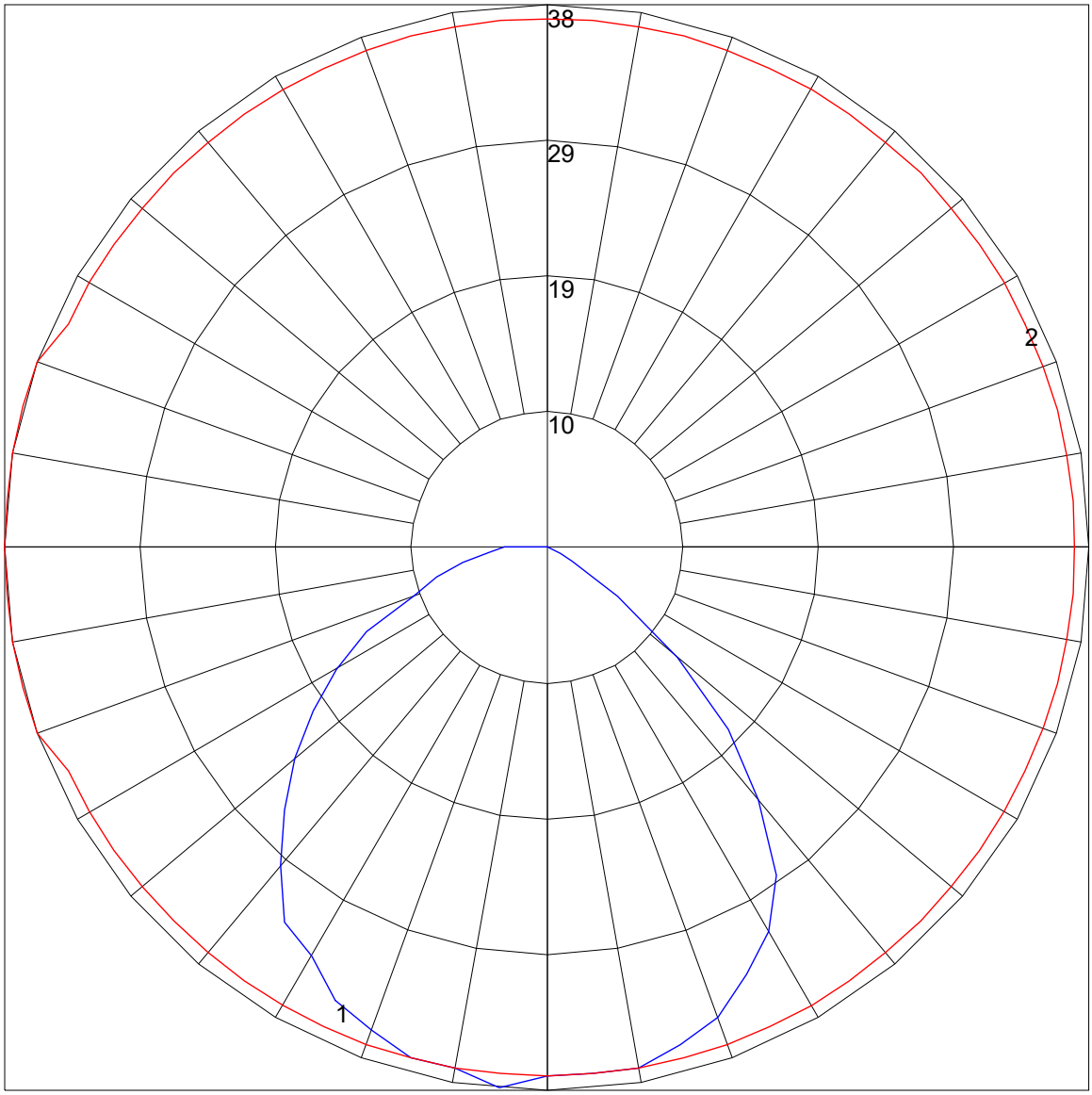
FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	40.4	42.6
Downward House Side	54.3	57.1
Downward Total	94.7	99.6
Upward Street Side	0.0	0.0
Upward House Side	0.3	0.3
Upward Total	0.3	0.3
Total Flux	95.0	99.9

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IES ROAD REPORT
PHOTOMETRIC FILENAME : L022211222R01.IES

POLAR GRAPH

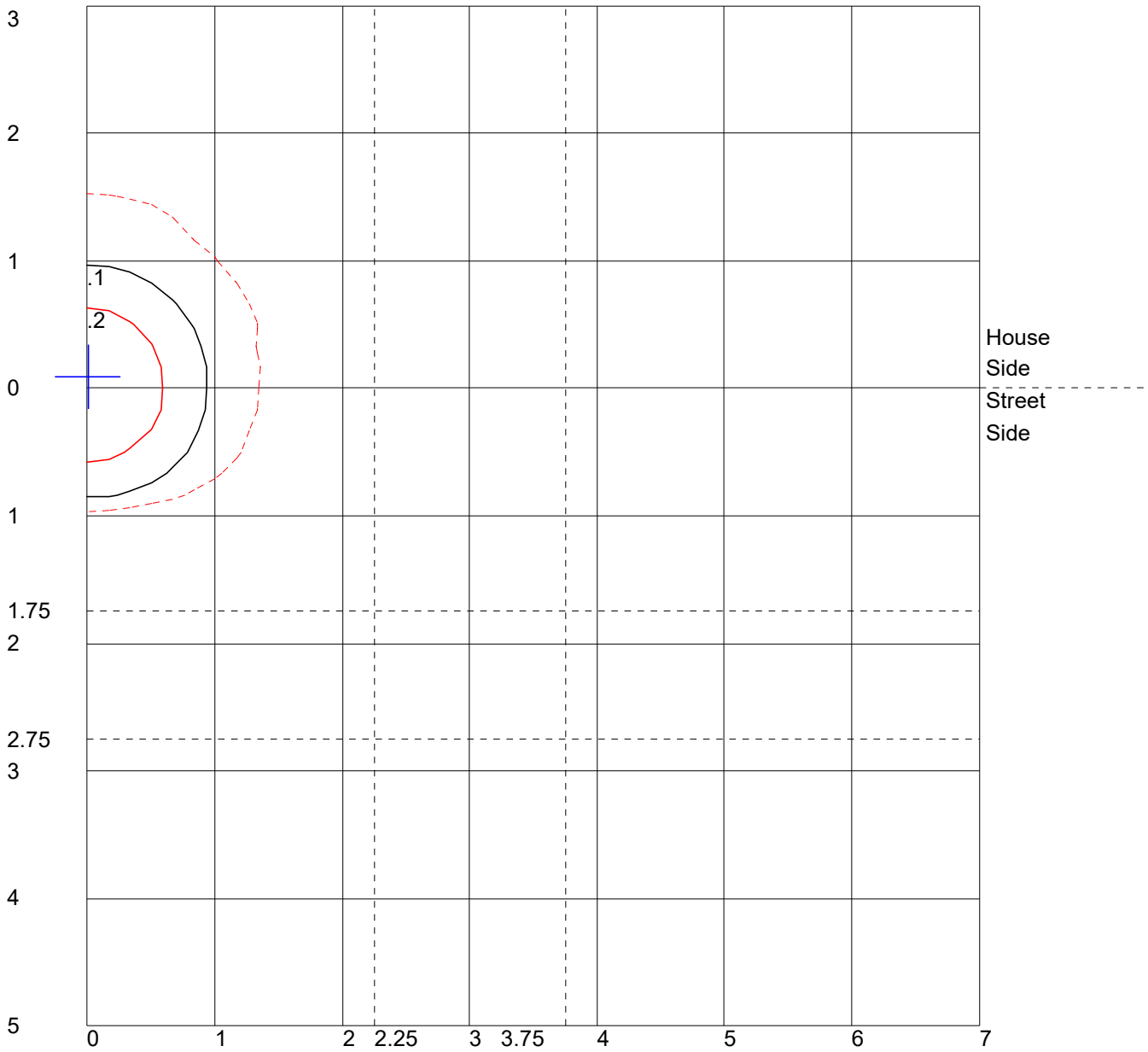


Maximum Candela = 38 Located At Horizontal Angle = 180, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (180 - 0) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

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PHOTOMETRIC FILENAME : L022211222R01.IES

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



Distance In Units Of Mounting Height
Values Based On 10 Foot Mounting Height
1/2 Maximum Candela Trace Shown As Dashed Curve
(+) = Maximum Candela Point

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