Replacement Parts

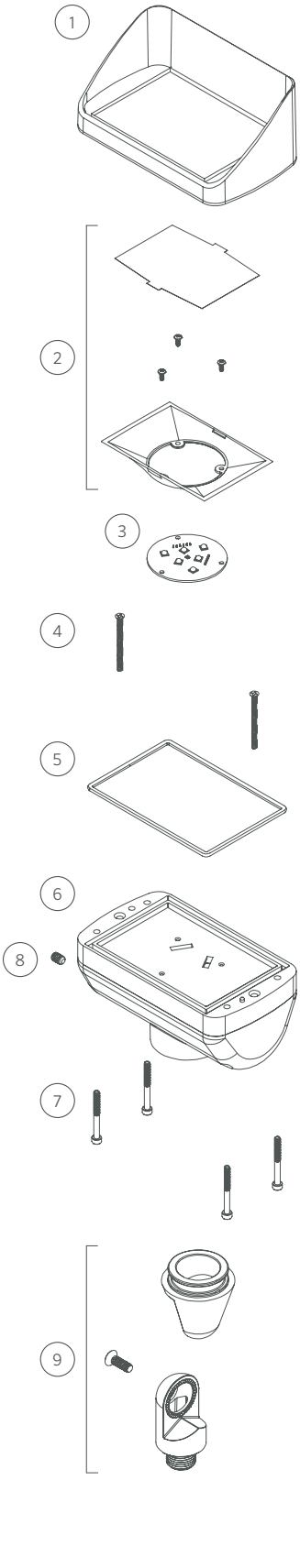
ITEM	DESCRIPTION	CATALOG #
1	Shroud with Lens	LFXW70XX*
2	Screws, Optics	See LED Chart
3	LED Board	See LED Chart
4	Screws	†
5	Gasket, Qty: 6	250031370000SP
6	Body and Driver	†
7	Screws	†
8	Set Screw, ¼"-20 x ⅜", ⅛" Allen key, Qty: 12	250032740000SP
9	Assembly, Knuckle	KAM050EXAXX*
10	Spike	250015840000
11	Mini J-Box	MJB050XX*

XX = Finish code*
YY = Beam angle (SP, FL, WF)*
†This part is not serviceable. Contact Customer Support or a local distributor to order a complete product.

LED Replacement

DESCRIPTION	CATALOG #
LED Board, H1, Warm 2,700K	KITH1W*
LED Board, H1, Soft 3,000K	KITH1S*
LED Board, Zone/Dim, H1, Warm 2,700K	KITZDH1W*
LED Board, Zone/Dim, H1, Soft 3,000K	KITZDH1S*
LED Board, ZDC, 6 LED	KITZDC6*
Optics Kit for H1 Board	KITOPXW70H1
Optics Kit for ZDC Board	KITOPXW70ZDC

** = Zoning, Zone/Dim, and ZDC boards are not interchangeable on the same fixture*



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

NVLAP TESTING
NVLAP LAB CODE 200927-0

Report No: L052310802 **Issue Date: 5/12/2023**

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

Model Number: XW70ZDCFW

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: 5/8/23

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	1/11/2024
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:	XW70ZDCFW
Driver Model Number:	N/A

Test Summary	
Total Lumens:	1335.00
Efficacy:	64.83
Color Redering Index:	56.7
Correlated Color Temperature:	14230
Input Voltage (VAC/60Hz):	12.01
Input Current (Amp):	2.0621
Input Power (W):	20.59
Input Power Factor:	0.8318
Current ATHD (%):	47.1%

Test Condition	
Ambient Temperature (°C):	25.0
Stabilization Time (Hours):	1:00
Total Operating Time (Hours):	1:45

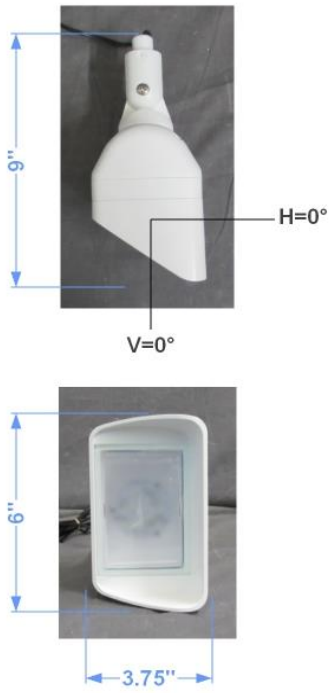


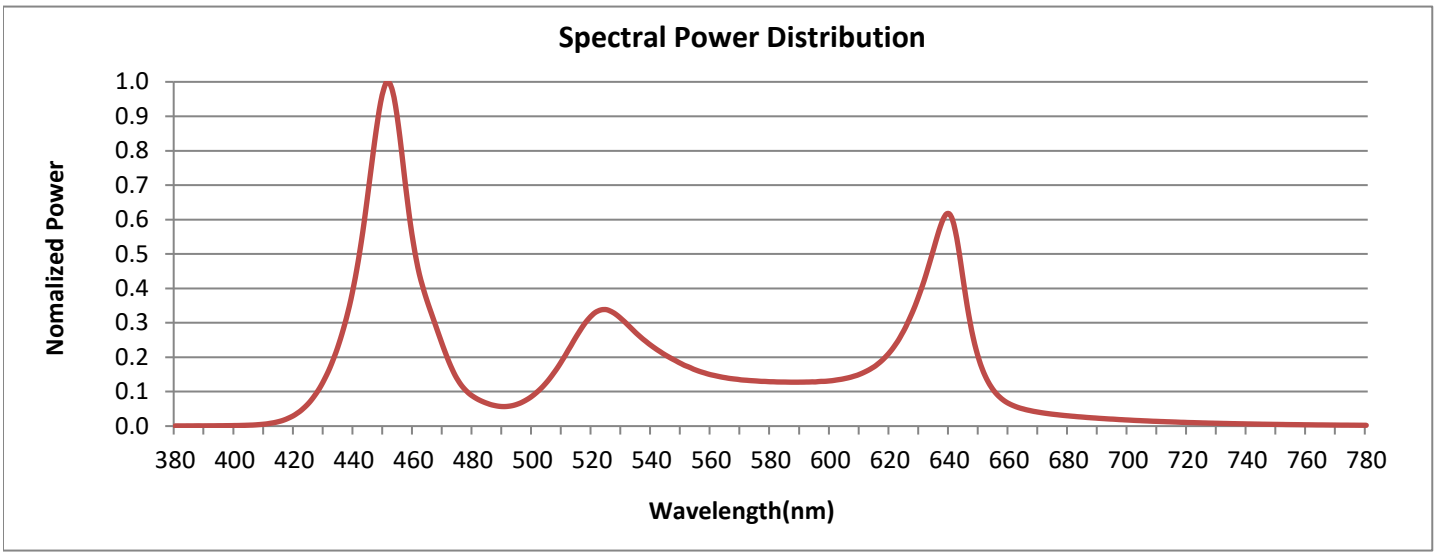
FIG. 1 LUMINAIRE

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Report No: L052310802

NVLAP TESTING
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Colorimetry Test Results

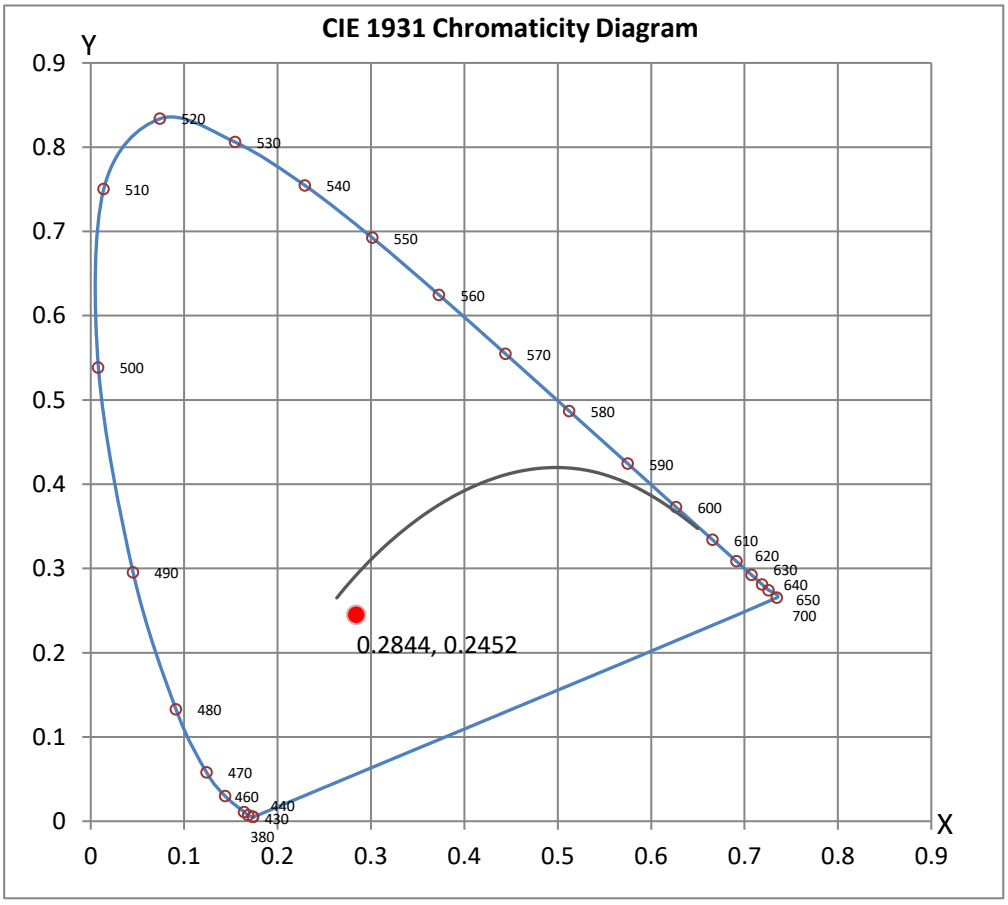


CRI & CCT

x	0.2844
y	0.2452
u'	0.2117
v'	0.4107
CRI	56.70
CCT	14230
Duv	-0.02735

R Values

R1	47.07
R2	83.39
R3	51.84
R4	42.39
R5	61.43
R6	83.60
R7	68.83
R8	15.09
R9	-143.08
R10	78.43
R11	31.12
R12	64.24
R13	55.95
R14	68.24
R15	25.64



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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 FLOOD REPORT
PHOTOMETRIC FILENAME : L052310802.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L052310802
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
[ISSUEDATE] 5/12/2023
[MANUFAC] FX Luminaire / Lumascape
[LUMCAT] XW70ZDCFW
[LUMINAIRE] Wall Wash, ZDC, Flat White
[BALLASTCAT] N/A
[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
[INPUT] 12VAC
[TEST PROCEDURE] IESNA:LM-79-19

Note: Candela values converted from Type-C to Type-B

CHARACTERISTICS

NEMA Type	7 H x 5 V
Maximum Candela	634
Maximum Candela Angle	-3H -11V
Horizontal Beam Angle (50%)	96.0
Vertical Beam Angle (50%)	84.1
Horizontal Field Angle (10%)	136.9
Vertical Field Angle (10%)	84.2
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	950
Beam Efficiency	N.A.
Field Lumens	1297
Field Efficiency	N.A.
Spill Lumens	38
Luminaire Lumens	1335
Total Efficiency	N.A.
Total Luminaire Watts	20.59
Ballast Factor	1.00

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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 FLOOD REPORT
PHOTOMETRIC FILENAME : L052310802.IES

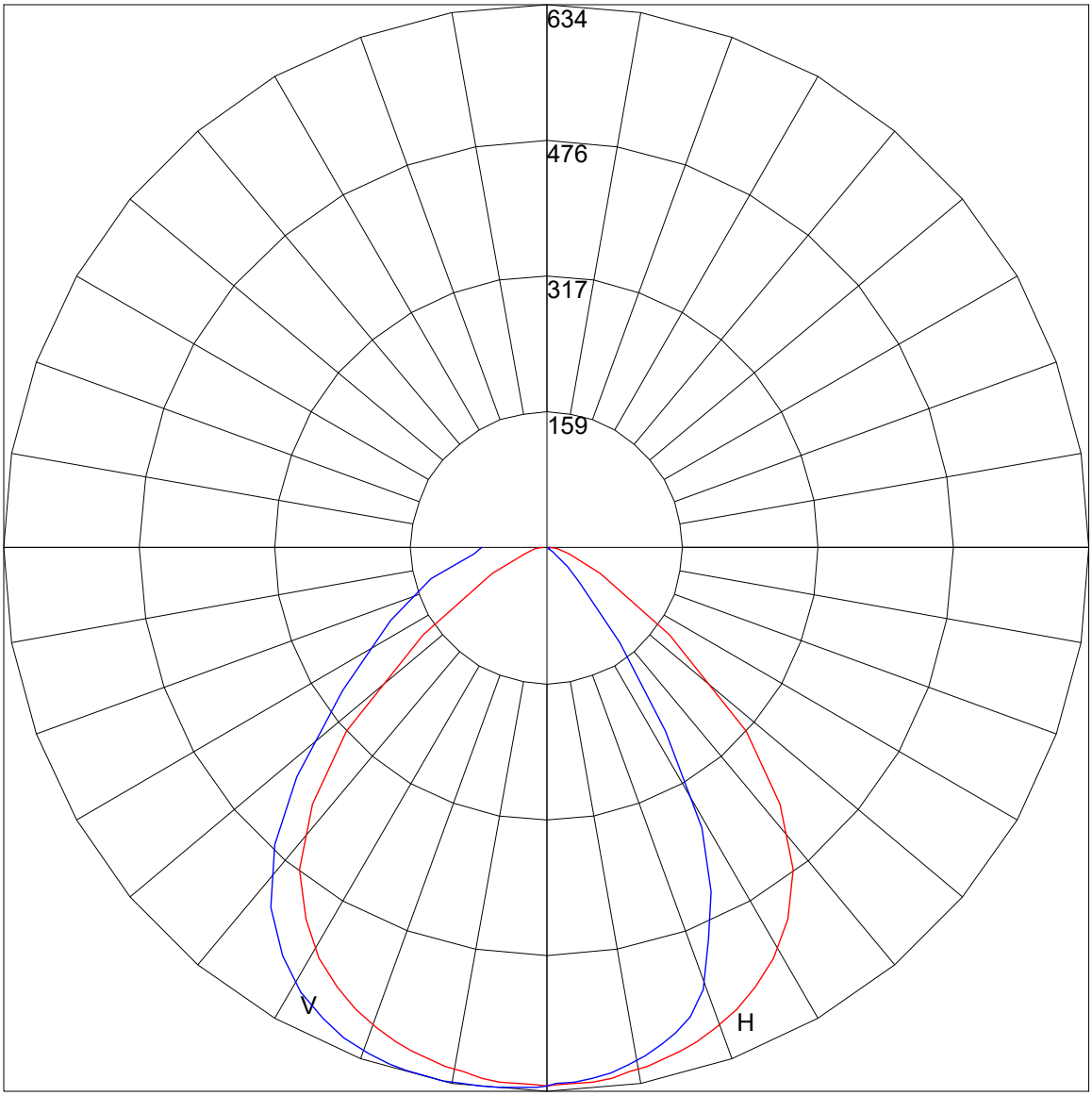
AXIAL CANDELA

DEG.	HOR.	DEG.	VERT.
90	4	90	4
85	13	85	4
75	27	75	4
65	70	65	3
55	176	55	8
47.5	317	47.5	33
42.5	405	42.5	56
37.5	473	37.5	140
33	517	33	256
29	548	29	374
25.5	568	25.5	445
22.5	583	22.5	493
19.5	594	19.5	547
17	602	17	572
15	607	15	585
13	612	13	595
11	616	11	604
9	619	9	611
7	623	7	618
5	625	5	621
3	626	3	624
1	626	1	625
0	628	0	628
-1	626	-1	629
-3	626	-3	631
-5	625	-5	632
-7	623	-7	633
-9	619	-9	633
-11	616	-11	633
-13	612	-13	632
-15	607	-15	631
-17	602	-17	629
-19.5	594	-19.5	625
-22.5	583	-22.5	618
-25.5	568	-25.5	608
-29	548	-29	593
-33	517	-33	567
-37.5	473	-37.5	528
-42.5	405	-42.5	469
-47.5	317	-47.5	396
-55	176	-55	291
-65	70	-65	201
-75	27	-75	140
-85	13	-85	85
-90	4	-90	76

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IES FLOOD REPORT
PHOTOMETRIC FILENAME : L052310802.IES

AXIAL CANDELA DISPLAY

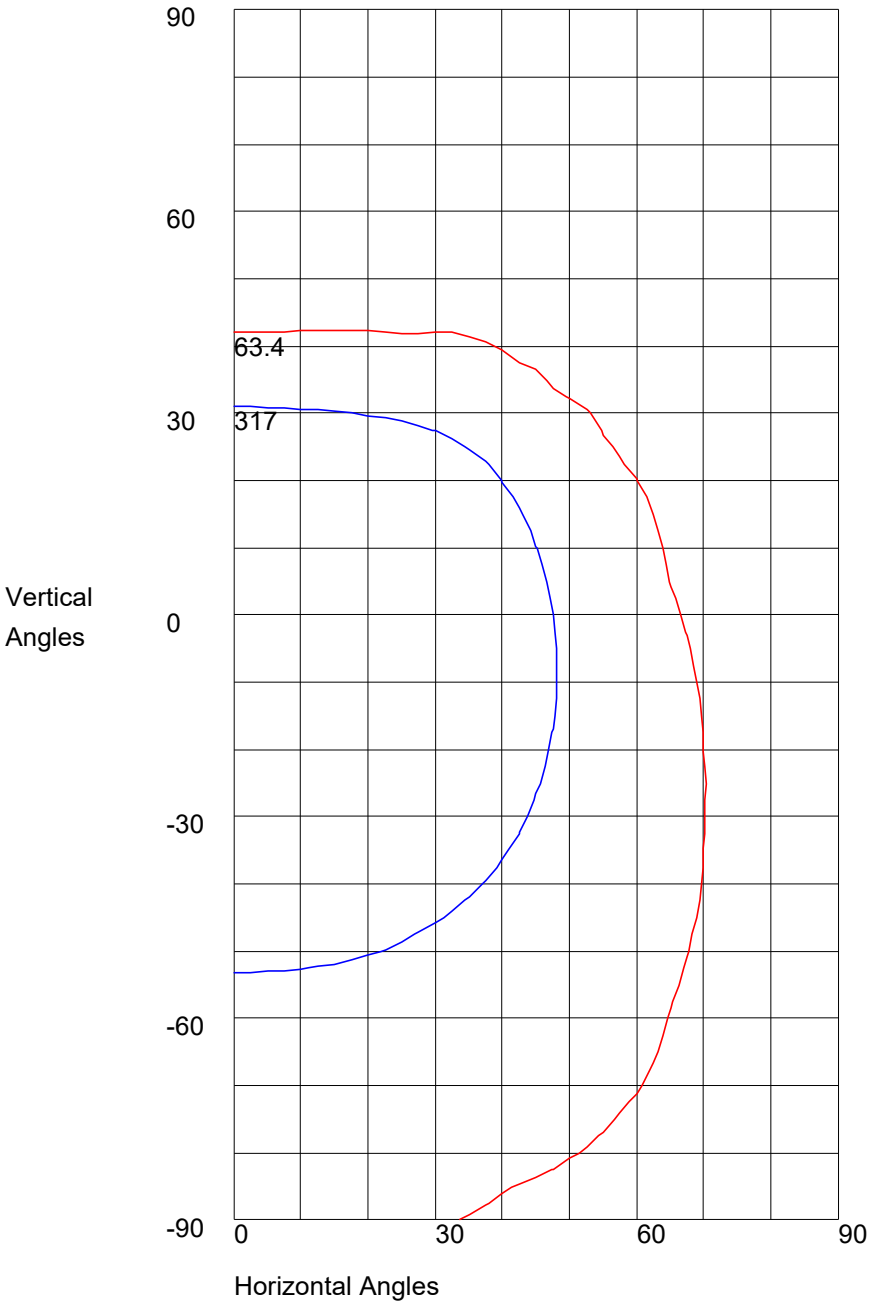


Maximum Candela = 634 Located At Horizontal Angle =-3, Vertical Angle =-11
H - Horizontal Axial Candela
V - Vertical Axial Candela

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IES FLOOD REPORT
PHOTOMETRIC FILENAME : L052310802.IES

ISOCANDELA CURVES



Maximum Candela = 634 Located At Horizontal Angle =-3, Vertical Angle =-11
50% Maximum Candela = 317
10% Maximum Candela = 63.4

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