LL LED

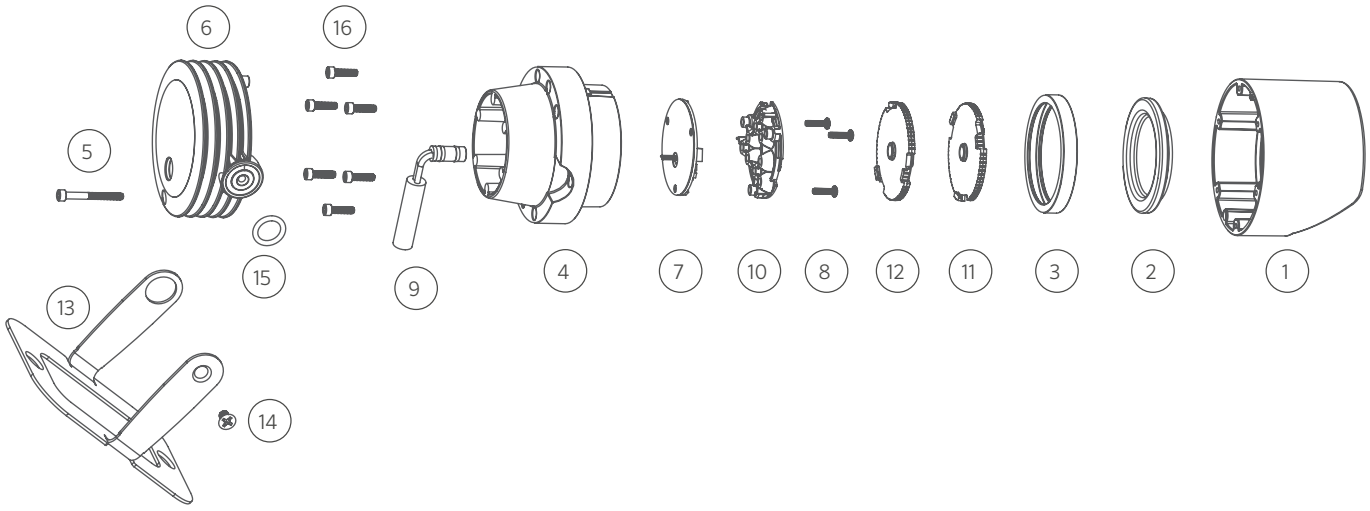
ITEM	DESCRIPTION	CATALOG #
1	Shroud, LL	250025450000
2	Lens, Diameter 2.35", Clear	250025510000
	Lens, Diameter 2.35", Clear Frosted	250025510001
3	Gasket, Silicone	250025470000
4	Body, LL	
5	Screw, SH, #6-32 x 1¼", SST	250025500000
6	Back Cap	250025440000
7	LED Board	See LED Chart
8	#4-40 x 7⁄16" Phil Pan M/SST	See LED Chart
9	Connector, STOW, Overmold, 30'	--
10	Reflector, 6X/9X, G2	See LED Chart
11	Filter, Color, 6X/9X, G2, Amber	See LED Chart
12	Diffuser, 6X/9X, G2	See LED Chart
13	Stand, SST	250025480000
14	Screw, FH, 10-24 x 5⁄16", SST	250026750000
15	O-Ring, Silicone, Orange, -112	250010280044
16	Screw, SH, #6-32 x ½" LG, SST	250010690000

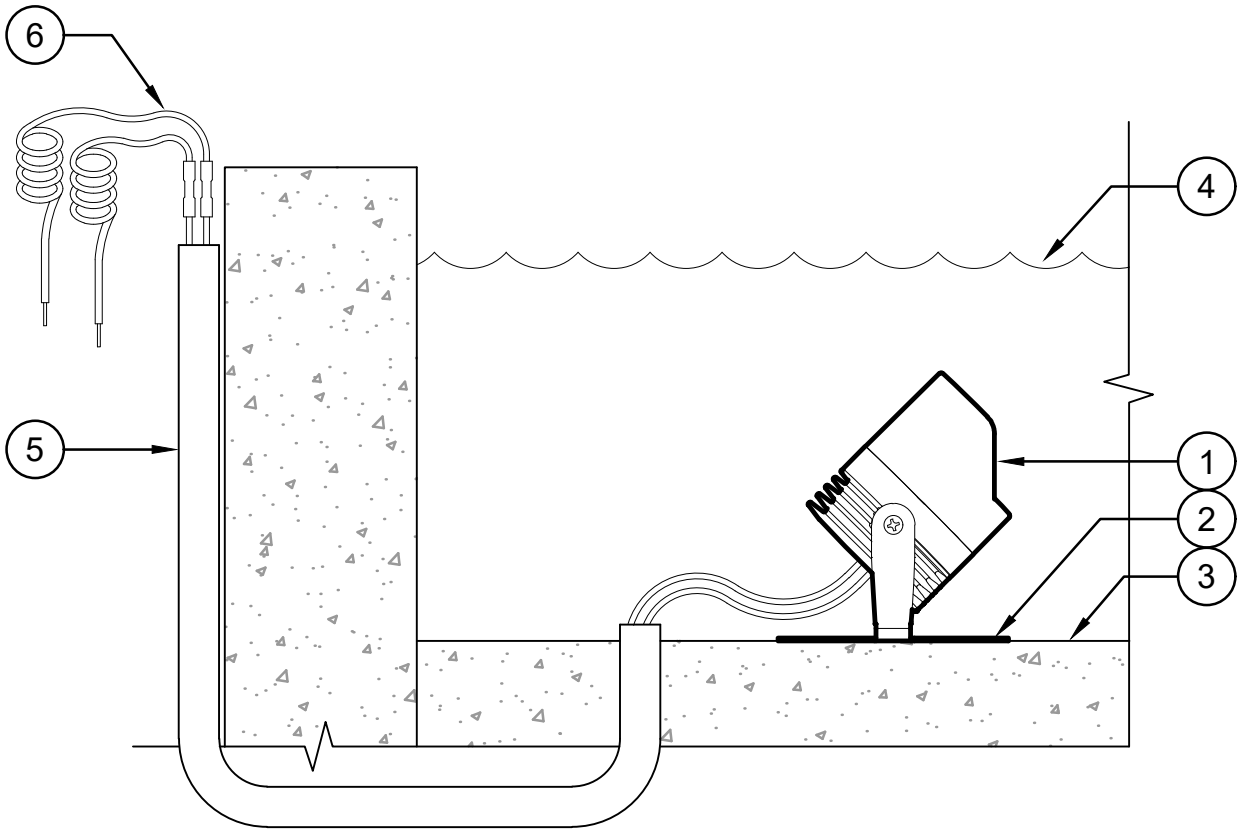
† *Replace "C" with "F" for frosted lens option*

LL LED COMPONENTS

ITEM	DESCRIPTION	CATALOG #
4	1LED Spot Lens (18°)	770600
5	3LED Spot Lens (18°)	771300
6	6LED/9LED Spot Lens (18°)	771600
7	1LED Color Filter, Amber	770100
7	1LED Color Filter, Blue	770101
7	1LED Color Filter, Green	770102
8	3LED Color Filter, Amber	770800
8	3LED Color Filter, Blue	770801
8	3LED Color Filter, Green	770802
9	6LED/9LED Color Filter, Amber	771500
9	6LED/9LED Color Filter, Blue	771501
9	6LED/9LED Color Filter, Green	771502
10	1LED/3LED Screw, #4-40 x 3⁄8" (Qty: 2)	762400
11	6LED/9LED Screw, #4-40 x 7⁄16" (Qty: 3)	250014550000
12	1LED Reflector	770000
13	3LED Reflector	770700
14	6/9LED Reflector	771400
14	ZDC LED Reflector	250020690000
15	1LED Board	1LEDULKIT‡
16	3LED Board	3LEDULKIT*
17	6LED Board	6LEDULKIT‡
18	9LED Board	9LEDULKIT‡
18	ZD 3LEDT Amber LED Board	ZD3LEDTKIT
18	ZDC LED Board	ZDCKITL**

‡ *ZD = Zoneable and dimmable (add ZD to front of part number)*
** *ZDC kit includes LED board, reflector (#14), screws (#11), and flood lens diffuser (9LEDFLLENS)*





DETAIL LEGEND:

1. FX LUMINAIRE "LL" FIXTURE PER PLAN
2. STAINLESS STEEL STAND
3. BOTTOM OF WATER FEATURE
4. WATER LEVEL WITHIN FEATURE
5. ELECTRICAL CONDUIT WITH SWEEP ELLS, AS REQUIRED
6. DIRECT BURY, UF/UL, COPPER, LOW VOLTAGE CABLE WITH UL 486D (IEC/EN 60998) RATED WATERPROOF CONNECTION. LEAVE MINIMUM WIRE LOOP COILED FOR FUTURE SERVICE ABOVE WATER LEVEL.

NOTES

A. FIXTURE REQUIRES 11-15V AC/DC

B. INSTALL TO A UL 1838 (IEC/EN 61347) LISTED TRANSFORMER

C. FIXTURE CAN BE USED IN OR OUT OF WATER. NOT FOR SWIMMING POOL USE.

D. MAX DEPTH IN WATER IS 10 FT (3 M)

E. FOR LUXOR CONTROL, ASSIGN FIXTURE OR LUXOR CUBE® TO APPROPRIATE GROUP NUMBER PRIOR TO INSTALLATION UNLESS USING LIGHT ASSIGNMENT MODULE (LAM)

XX

DESIGNER SERIES LL LIGHT

FXLuminaire. SP.LL.01

NOT TO SCALE

REV: 2019-09-05

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

NVLAP TESTING
NVLAP LAB CODE 200927-0

Report No: L012313415 **Issue Date: 2/9/2023**

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

Model Number: LL-9LED-BS-fl / uTID-9LED-FL-BS

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: 2/8/23

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	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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NVLAP TESTING
NVLAP LAB CODE 200927-0

General Information	
Manufacturer:	FX Luminaire / Lumascape
Model Number:	LL-9LED-BS-fl / uTID-9LED-FL-BS
Driver Model Number:	N/A

Test Summary	
Total Lumens:	704.00
Efficacy:	62.17
Color Redering Index:	82.8
Correlated Color Temperature:	2607
Input Voltage (VAC/60Hz):	12.00
Input Current (Amp):	1.0344
Input Power (W):	11.32
Input Power Factor:	0.9120
Current ATHD (%):	37.7%

Test Condition	
Ambient Temperature (°C):	25.0
Stabilization Time (Hours):	0:30
Total Operating Time (Hours):	1:15

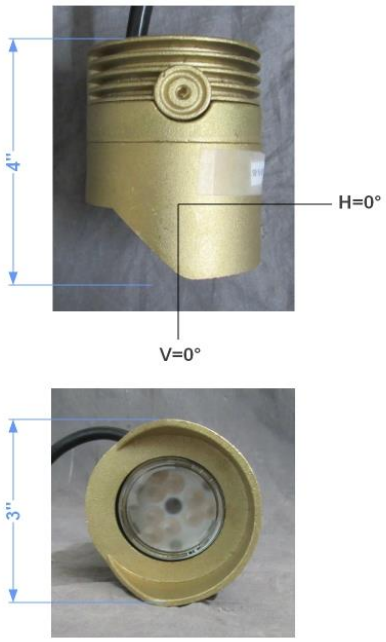


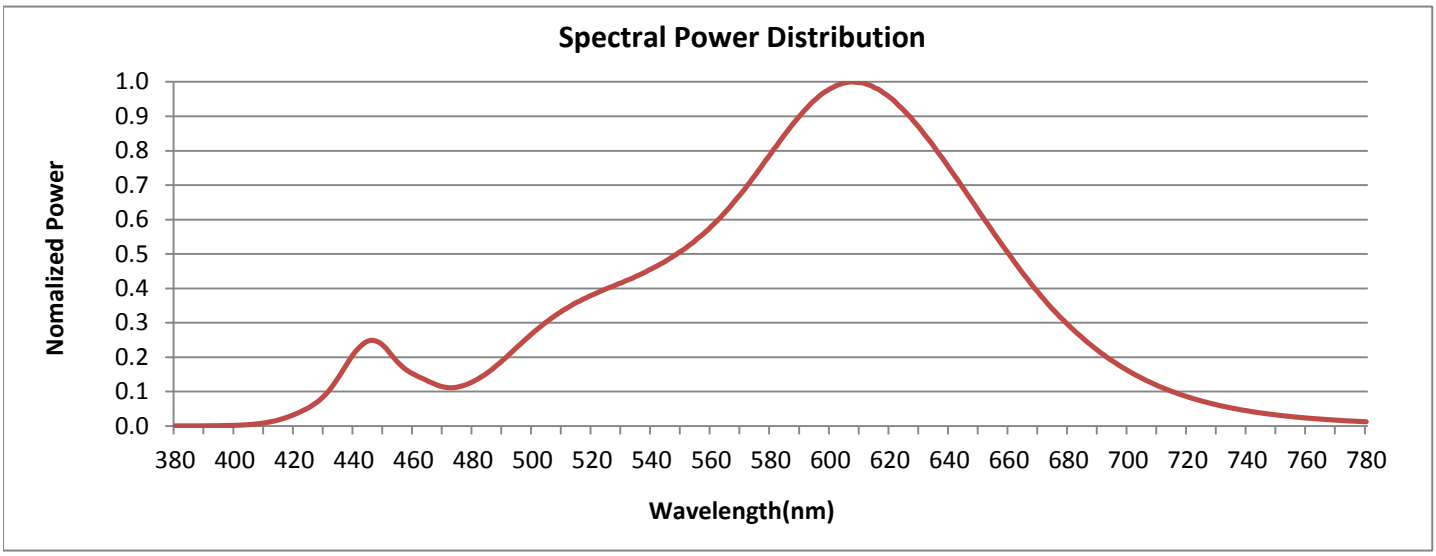
FIG. 1 LUMINAIRE

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Report No: L012313415

NVLAP TESTING
NVLAP LAB CODE 200927-0

Colorimetry Test Results

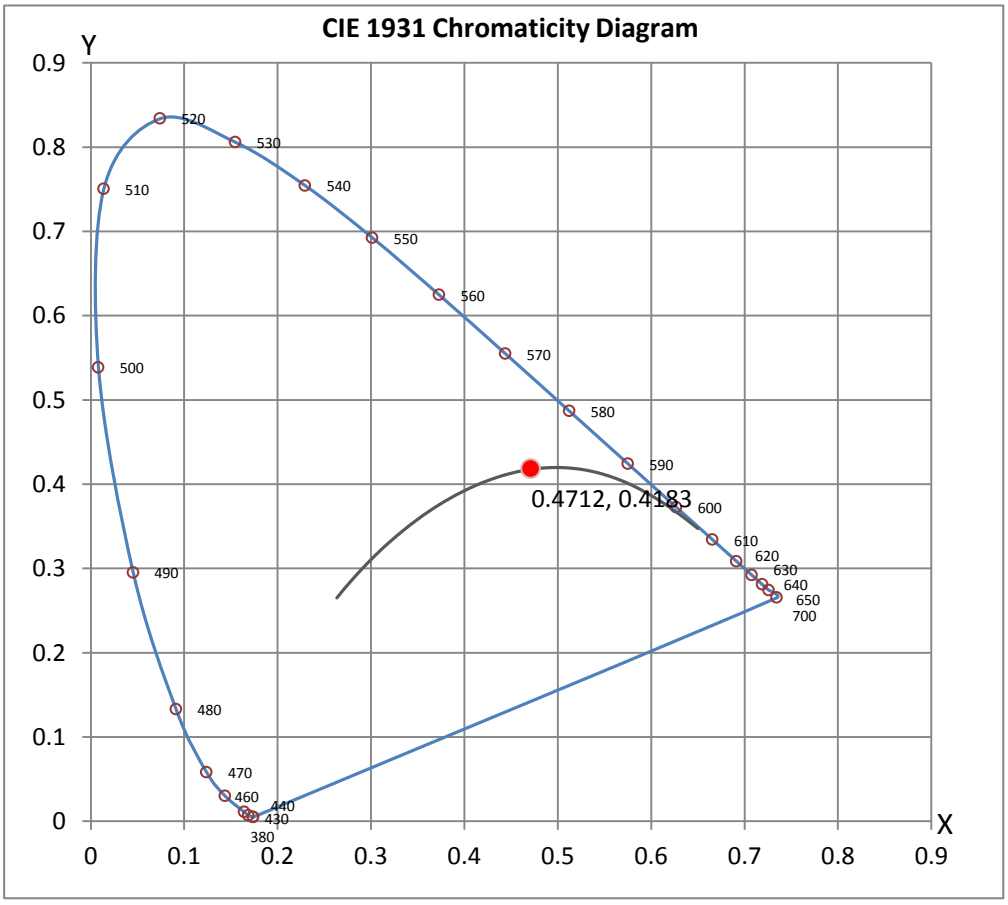


CRI & CCT

x	0.4712
y	0.4183
u'	0.2663
v'	0.5319
CRI	82.80
CCT	2607
Duv	0.00195

R Values

R1	80.68
R2	90.71
R3	96.86
R4	82.28
R5	81.82
R6	91.35
R7	81.92
R8	56.61
R9	6.37
R10	80.36
R11	83.05
R12	79.54
R13	82.79
R14	98.89
R15	71.76



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NVLAP TESTING
NVLAP LAB CODE 200927-0

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.*

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

Photometric Test Report

IES FLOOD REPORT
PHOTOMETRIC FILENAME : L012313415.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L012313415
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
[ISSUEDATE] 2/9/2023
[MANUFAC] FX Luminaire / Lumascape
[LUMCAT] LL-9LED-BS-fl / uTID-9LED-FL-BS
[LUMINAIRE] Lumiled, 9LED, 2700K, Flood (35)
[BALLASTCAT] N/A
[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
[INPUT] 12 VAC
[TEST PROCEDURE] IESNA:LM-79-08

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

CHARACTERISTICS

NEMA Type	4 H x 4 V
Maximum Candela	1590
Maximum Candela Angle	0H 0V
Horizontal Beam Angle (50%)	31.6
Vertical Beam Angle (50%)	31.8
Horizontal Field Angle (10%)	66.3
Vertical Field Angle (10%)	68.1
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	259
Beam Efficiency	N.A.
Field Lumens	576
Field Efficiency	N.A.
Spill Lumens	128
Luminaire Lumens	704
Total Efficiency	N.A.
Total Luminaire Watts	11.32
Ballast Factor	1.00

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Results derived from content of manufacturers photometric file.

IES FLOOD REPORT
PHOTOMETRIC FILENAME : L012313415.IES

AXIAL CANDELA

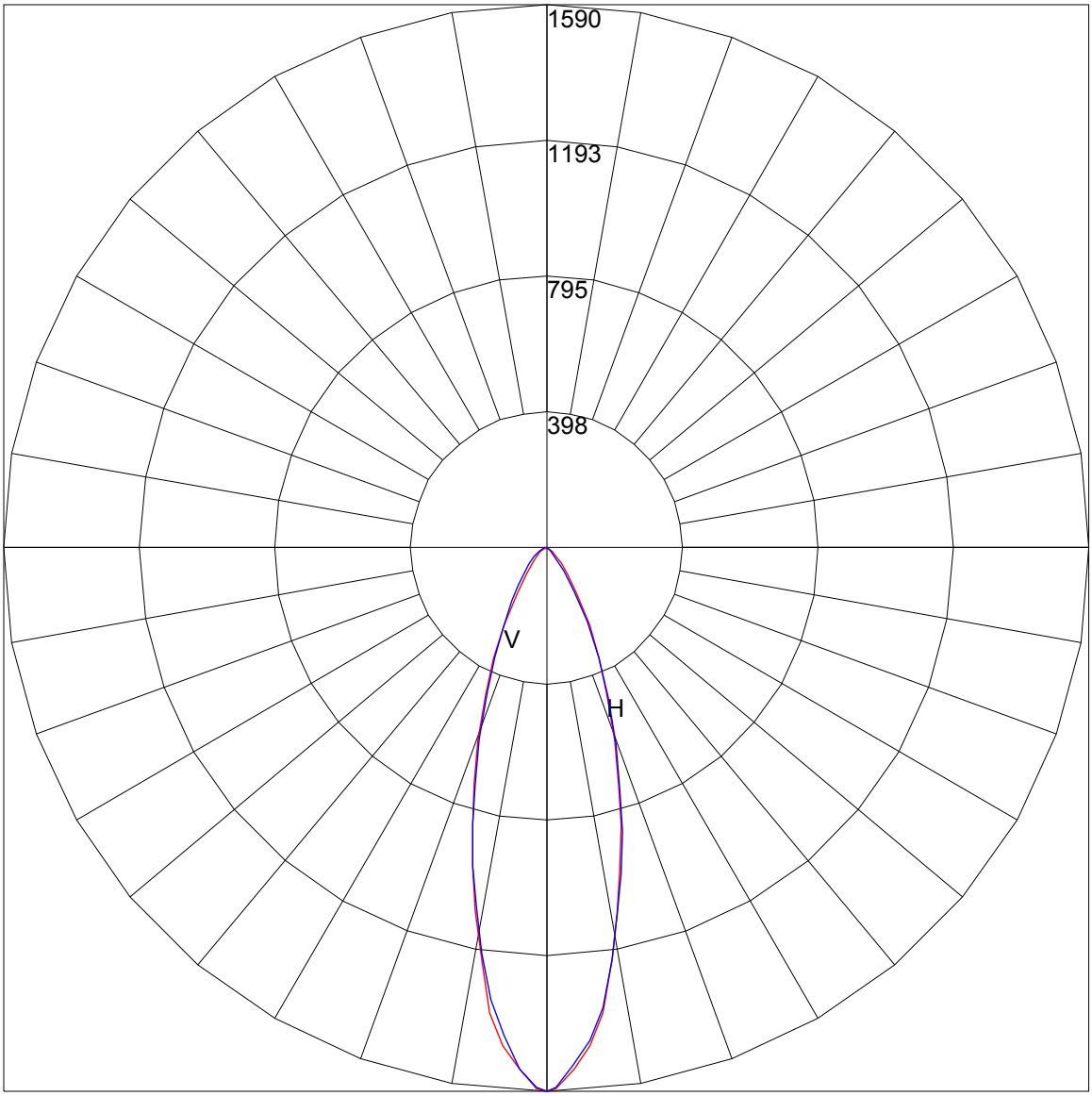
DEG.	HOR.	DEG.	VERT.
90	2	90	2
85	2	85	2
75	4	75	2
65	7	65	2
55	20	55	7
47.5	38	47.5	15
42.5	62	42.5	29
37.5	100	37.5	83
33	161	33	152
29	261	29	246
25.5	359	25.5	356
22.5	466	22.5	472
19.5	599	19.5	610
17	724	17	740
15	840	15	859
13	962	13	977
11	1085	11	1093
9	1221	9	1218
7	1372	7	1356
5	1461	5	1445
3	1529	3	1517
1	1581	1	1578
0	1590	0	1590
-1	1581	-1	1580
-3	1529	-3	1526
-5	1461	-5	1431
-7	1372	-7	1334
-9	1221	-9	1200
-11	1085	-11	1074
-13	962	-13	955
-15	840	-15	836
-17	724	-17	720
-19.5	599	-19.5	594
-22.5	466	-22.5	460
-25.5	359	-25.5	352
-29	261	-29	261
-33	161	-33	186
-37.5	100	-37.5	136
-42.5	62	-42.5	95
-47.5	38	-47.5	69
-55	20	-55	46
-65	7	-65	25
-75	4	-75	9
-85	2	-85	6
-90	2	-90	5

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Results derived from content of manufacturers photometric file.

IES FLOOD REPORT
PHOTOMETRIC FILENAME : L012313415.IES

AXIAL CANDELA DISPLAY

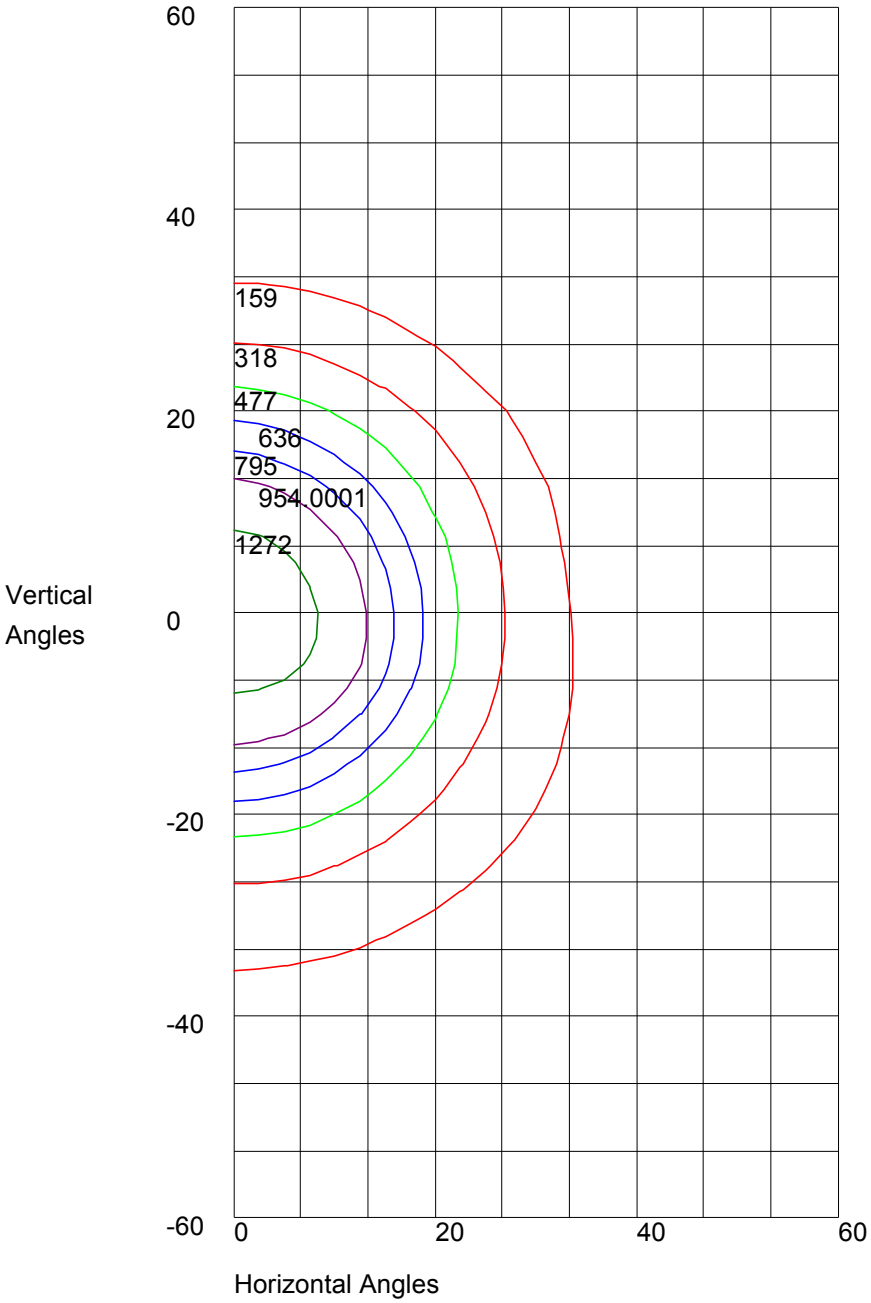


Maximum Candela = 1590 Located At Horizontal Angle = 0, Vertical Angle = 0
H - Horizontal Axial Candela
V - Vertical Axial Candela

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PHOTOMETRIC FILENAME : L012313415.IES

ISOCANDELA CURVES



Maximum Candela = 1590 Located At Horizontal Angle = 0, Vertical Angle = 0
50% Maximum Candela = 795
10% Maximum Candela = 159

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Results derived from content of manufacturers photometric file.

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www.lightlaboratory.com

NVLAP TESTING
NVLAP LAB CODE 200927-0

Report No: L012313413 **Issue Date: 2/9/2023**

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

Model Number: LL-3LED-BS-fl / uTID-3LED-FL-BS

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: 2/7/23

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	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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www.lightlaboratory.com

NVLAP TESTING
NVLAP LAB CODE 200927-0

General Information	
Manufacturer:	FX Luminaire / Lumascape
Model Number:	LL-3LED-BS-fl / uTID-3LED-FL-BS
Driver Model Number:	N/A

Test Summary	
Total Lumens:	259.00
Efficacy:	66.39
Color Redering Index:	83.8
Correlated Color Temperature:	2612
Input Voltage (VAC/60Hz):	12.02
Input Current (Amp):	0.3534
Input Power (W):	3.90
Input Power Factor:	0.9185
Current ATHD (%):	38.1%

Test Condition	
Ambient Temperature (°C):	25.0
Stabilization Time (Hours):	0:30
Total Operating Time (Hours):	1:15

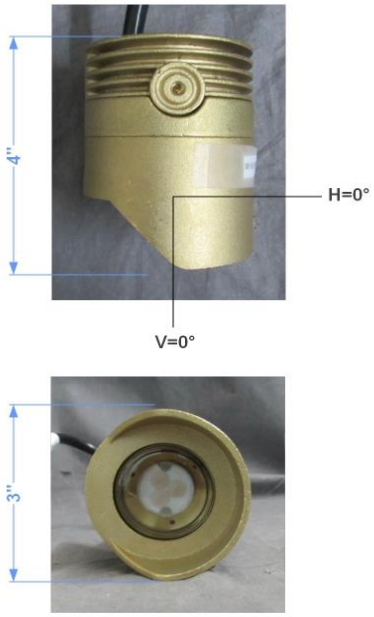


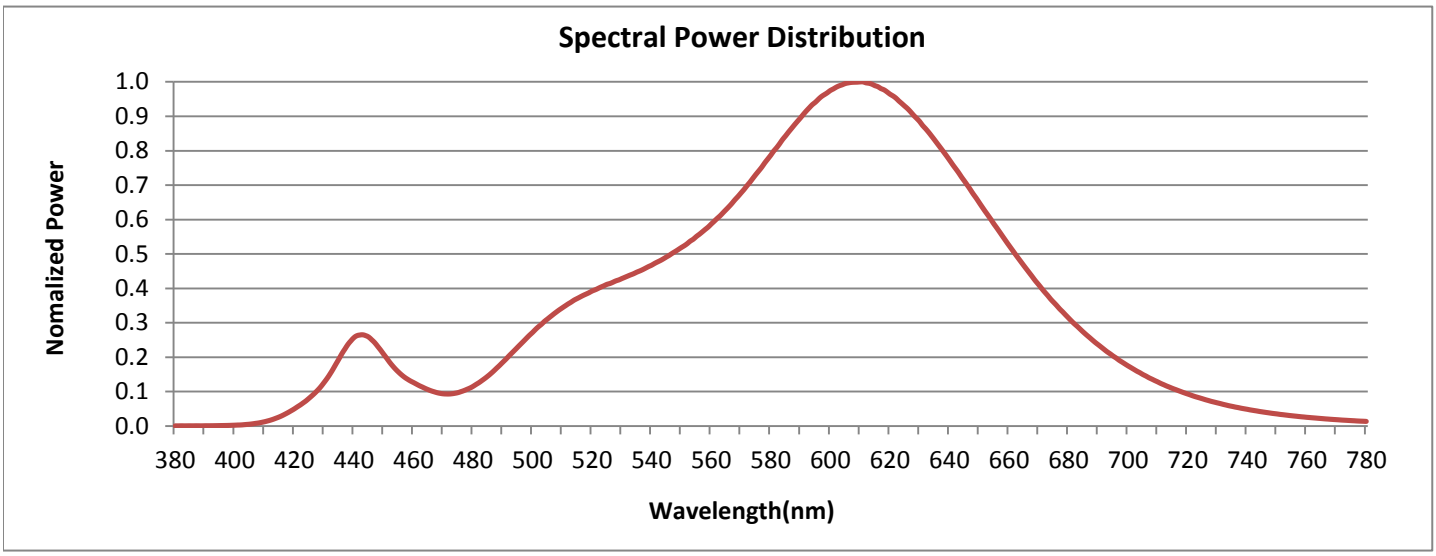
FIG. 1 LUMINAIRE

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Report No: L012313413

NVLAP TESTING
NVLAP LAB CODE 200927-0

Colorimetry Test Results

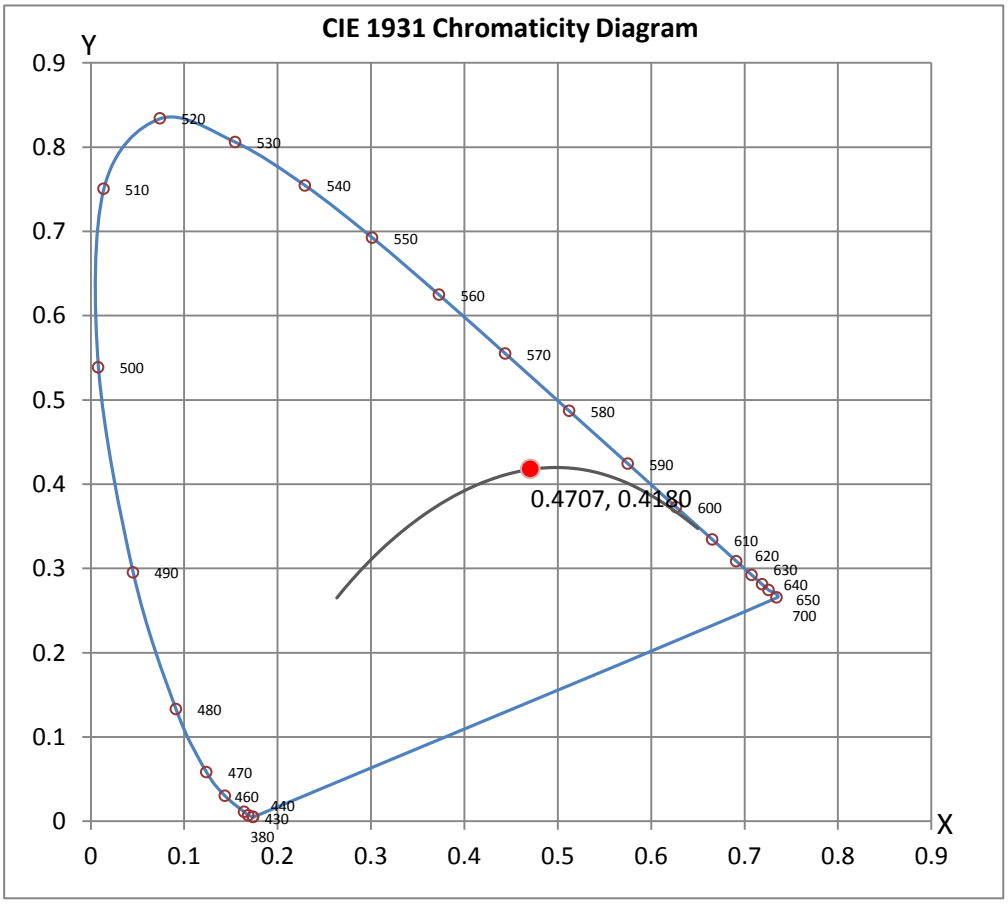


CRI & CCT

x	0.4707
y	0.4180
u'	0.2661
v'	0.5318
CRI	83.80
CCT	2612
Duv	0.00188

R Values

R1	81.67
R2	90.42
R3	98.13
R4	83.96
R5	82.67
R6	90.81
R7	83.35
R8	59.32
R9	11.38
R10	79.57
R11	85.10
R12	79.34
R13	83.40
R14	99.26
R15	73.19



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NVLAP LAB CODE 200927-0

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.*

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

Photometric Test Report

IES FLOOD REPORT
PHOTOMETRIC FILENAME : L012313413.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L012313413
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
[ISSUEDATE] 2/9/2023
[MANUFAC] FX Luminaire / Lumascape
[LUMCAT] LL-3LED-BS-fl / uTID-3LED-FL-BS
[LUMINAIRE] Lumiled, 3LED, 2700K, Flood (35)
[BALLASTCAT] N/A
[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
[INPUT] 12 VAC
[TEST PROCEDURE] IESNA:LM-79-08

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

CHARACTERISTICS

NEMA Type	5 H x 5 V
Maximum Candela	526
Maximum Candela Angle	0H -1V
Horizontal Beam Angle (50%)	35.1
Vertical Beam Angle (50%)	34.7
Horizontal Field Angle (10%)	70.5
Vertical Field Angle (10%)	70.5
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	105
Beam Efficiency	N.A.
Field Lumens	226
Field Efficiency	N.A.
Spill Lumens	33
Luminaire Lumens	259
Total Efficiency	N.A.
Total Luminaire Watts	3.9
Ballast Factor	1.00

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Results derived from content of manufacturers photometric file.

IES FLOOD REPORT
PHOTOMETRIC FILENAME : L012313413.IES

AXIAL CANDELA

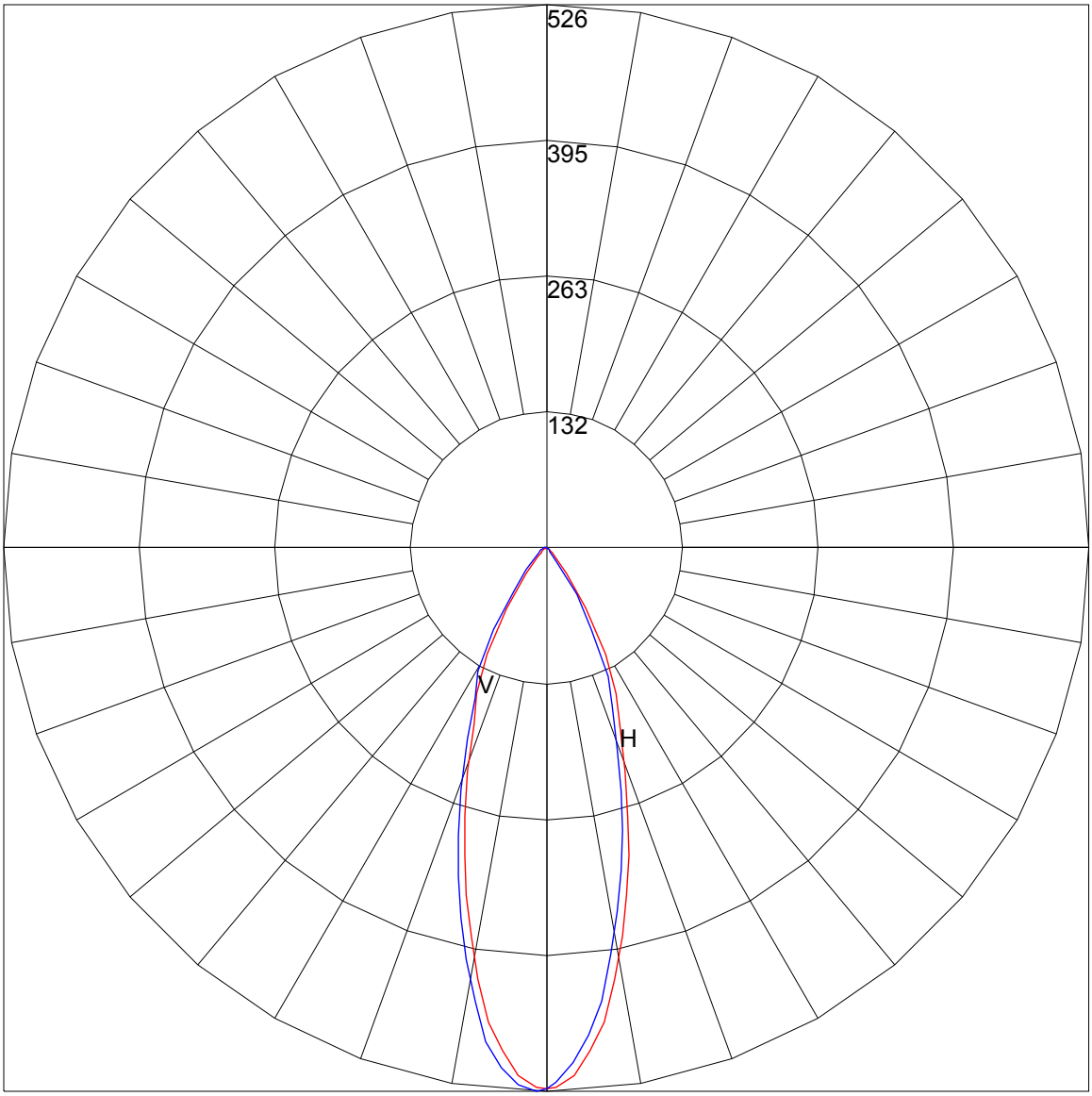
DEG.	HOR.	DEG.	VERT.
90	1	90	1
85	1	85	1
75	1	75	1
65	2	65	1
55	5	55	2
47.5	7	47.5	4
42.5	12	42.5	5
37.5	32	37.5	14
33	70	33	53
29	118	29	90
25.5	156	25.5	138
22.5	185	22.5	165
19.5	230	19.5	207
17	271	17	246
15	308	15	283
13	346	13	321
11	383	11	358
9	422	9	398
7	462	7	442
5	489	5	473
3	511	3	499
1	522	1	517
0	523	0	523
-1	522	-1	526
-3	511	-3	521
-5	489	-5	505
-7	462	-7	481
-9	422	-9	444
-11	383	-11	406
-13	346	-13	368
-15	308	-15	329
-17	271	-17	291
-19.5	230	-19.5	248
-22.5	185	-22.5	201
-25.5	156	-25.5	161
-29	118	-29	136
-33	70	-33	94
-37.5	32	-37.5	52
-42.5	12	-42.5	29
-47.5	7	-47.5	17
-55	5	-55	9
-65	2	-65	6
-75	1	-75	3
-85	1	-85	2
-90	1	-90	1

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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 : L012313413.IES

AXIAL CANDELA DISPLAY



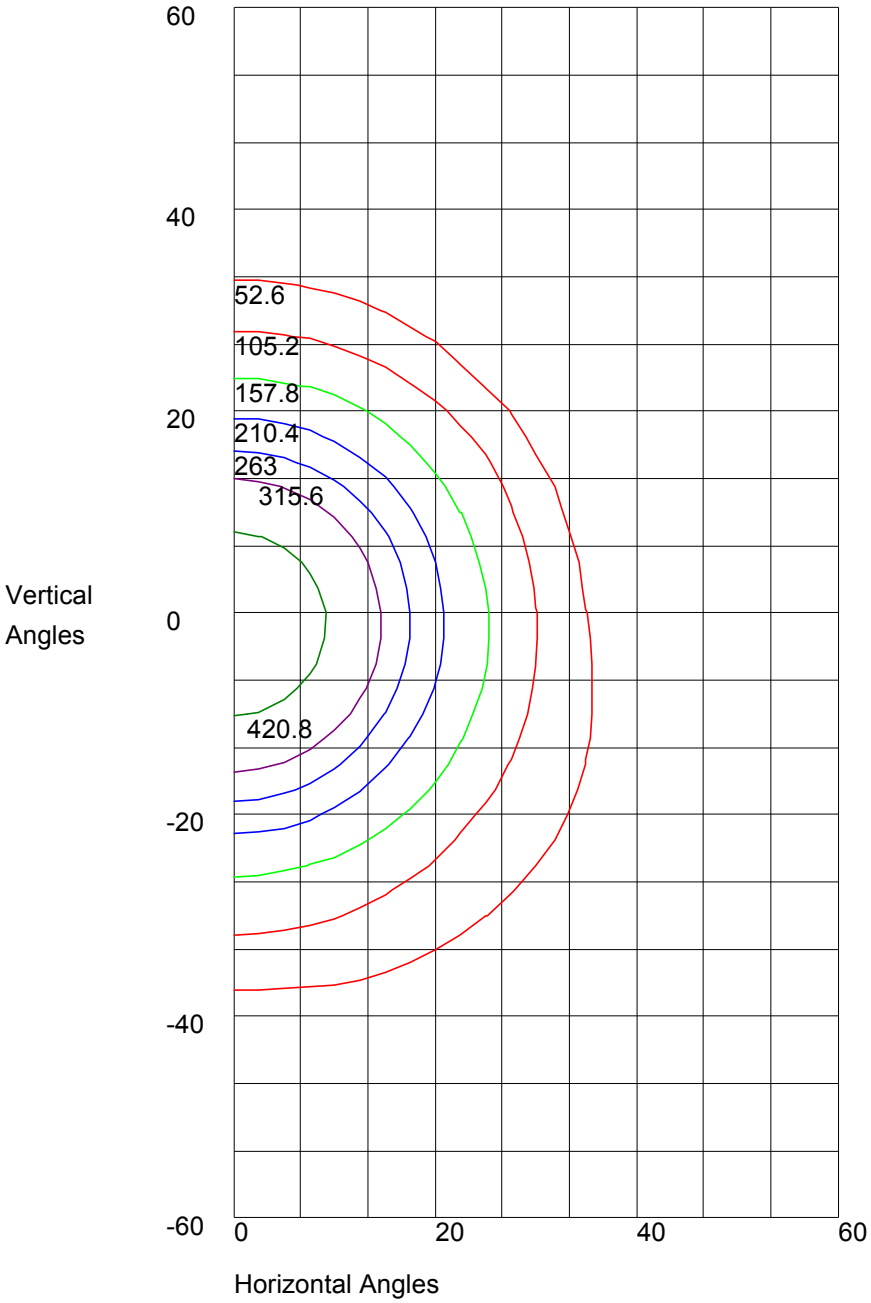
Maximum Candela = 526 Located At Horizontal Angle = 0, Vertical Angle =-1
H - Horizontal Axial Candela
V - Vertical Axial Candela

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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 : L012313413.IES

ISOCANDELA CURVES



Maximum Candela = 526 Located At Horizontal Angle = 0, Vertical Angle =-1
50% Maximum Candela = 263
10% Maximum Candela = 52.6

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

NVLAP TESTING
NVLAP LAB CODE 200927-0

Report No: L012313414 **Issue Date: 2/9/2023**

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

Model Number: LL-6LED-BS-fl / uTID-6LED-FL-BS

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: 2/8/23

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	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:	LL-6LED-BS-fl / uTID-6LED-FL-BS
Driver Model Number:	N/A

Test Summary	
Total Lumens:	487.00
Efficacy:	62.34
Color Redering Index:	84.0
Correlated Color Temperature:	2624
Input Voltage (VAC/60Hz):	12.01
Input Current (Amp):	0.7726
Input Power (W):	7.81
Input Power Factor:	0.8420
Current ATHD (%):	50.0%

Test Condition	
Ambient Temperature (°C):	25.0
Stabilization Time (Hours):	0:30
Total Operating Time (Hours):	1:15

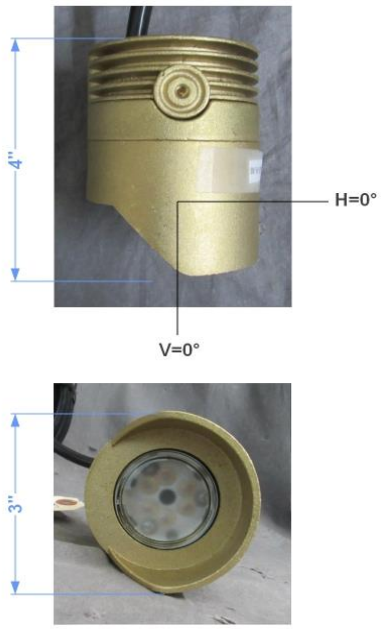


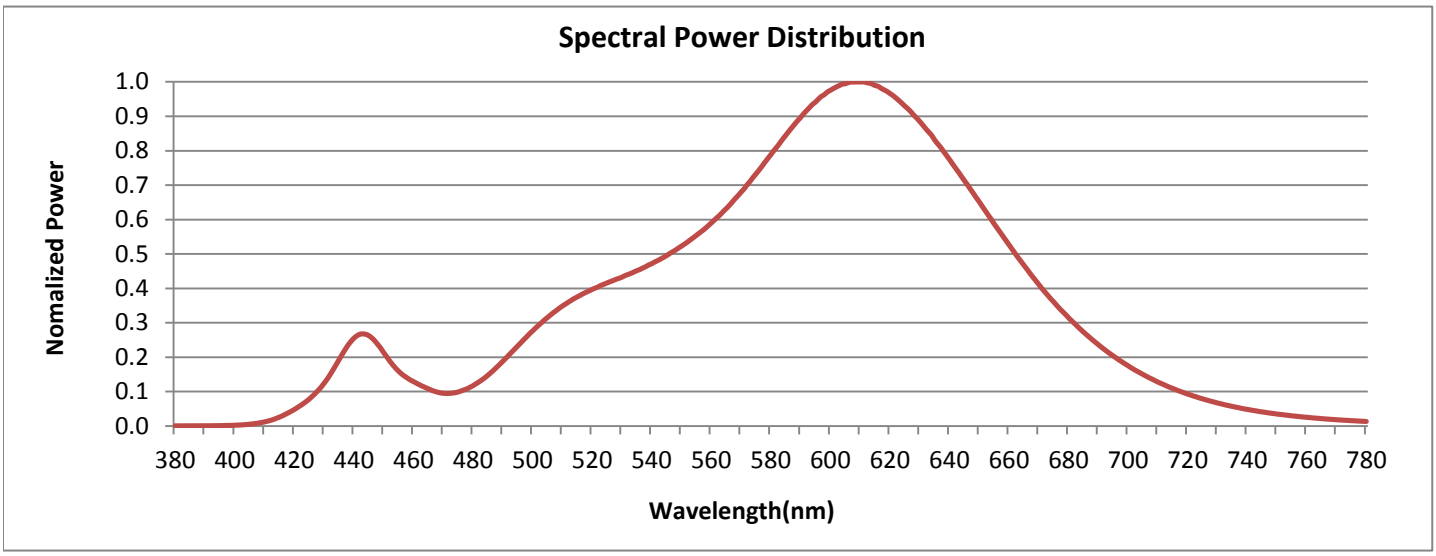
FIG. 1 LUMINAIRE

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Report No: L012313414

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Colorimetry Test Results

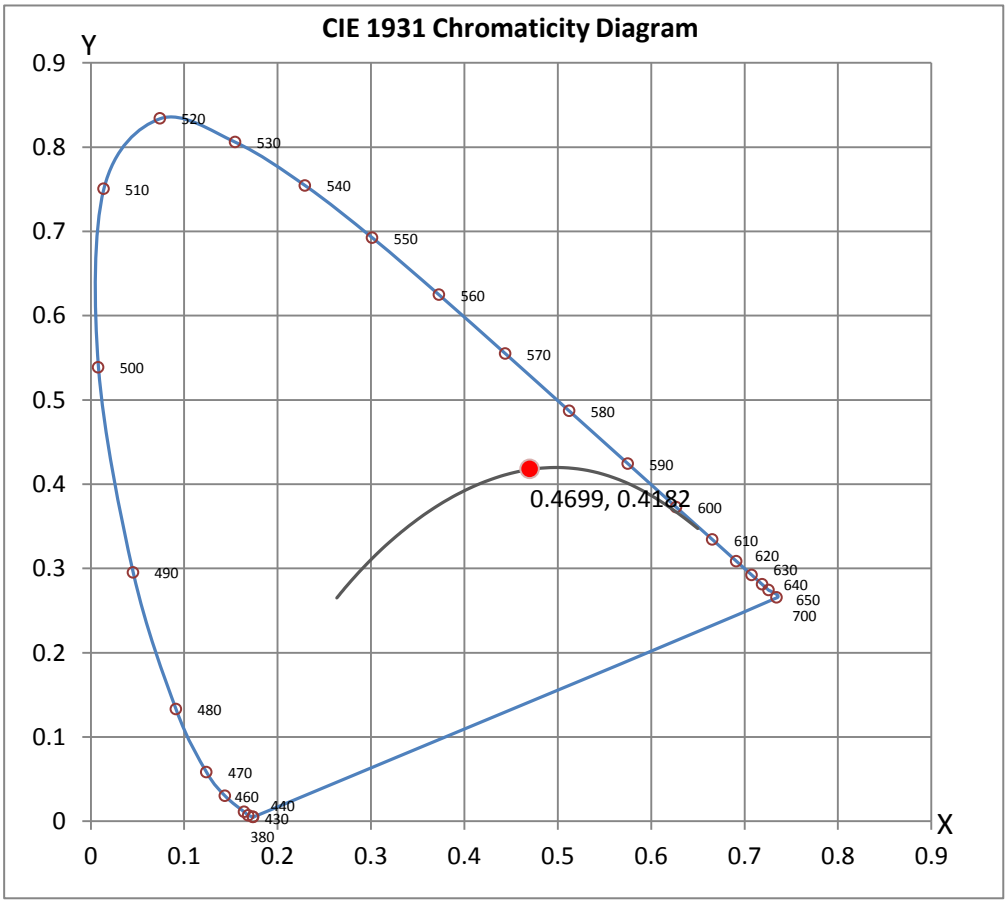


CRI & CCT

x	0.4699
y	0.4182
u'	0.2655
v'	0.5317
CRI	84.00
CCT	2624
Duv	0.00200

R Values

R1	81.89
R2	90.50
R3	98.22
R4	84.23
R5	82.88
R6	90.90
R7	83.58
R8	59.73
R9	12.06
R10	79.72
R11	85.42
R12	79.42
R13	83.60
R14	99.28
R15	73.42



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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 FLOOD REPORT
PHOTOMETRIC FILENAME : L012313414.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L012313414
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
[ISSUEDATE] 2/9/2023
[MANUFAC] FX Luminaire / Lumascape
[LUMCAT] LL-6LED-BS-fl / uTID-6LED-FL-BS
[LUMINAIRE] Lumiled, 6LED, 2700K, Flood (35)
[BALLASTCAT] N/A
[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
[INPUT] 12 VAC
[TEST PROCEDURE] IESNA:LM-79-08

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

CHARACTERISTICS

NEMA Type	4 H x 4 V
Maximum Candela	1053
Maximum Candela Angle	0H 1V
Horizontal Beam Angle (50%)	33.7
Vertical Beam Angle (50%)	33.8
Horizontal Field Angle (10%)	66.2
Vertical Field Angle (10%)	67.8
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	204
Beam Efficiency	N.A.
Field Lumens	408
Field Efficiency	N.A.
Spill Lumens	79
Luminaire Lumens	487
Total Efficiency	N.A.
Total Luminaire Watts	7.81
Ballast Factor	1.00

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AXIAL CANDELA

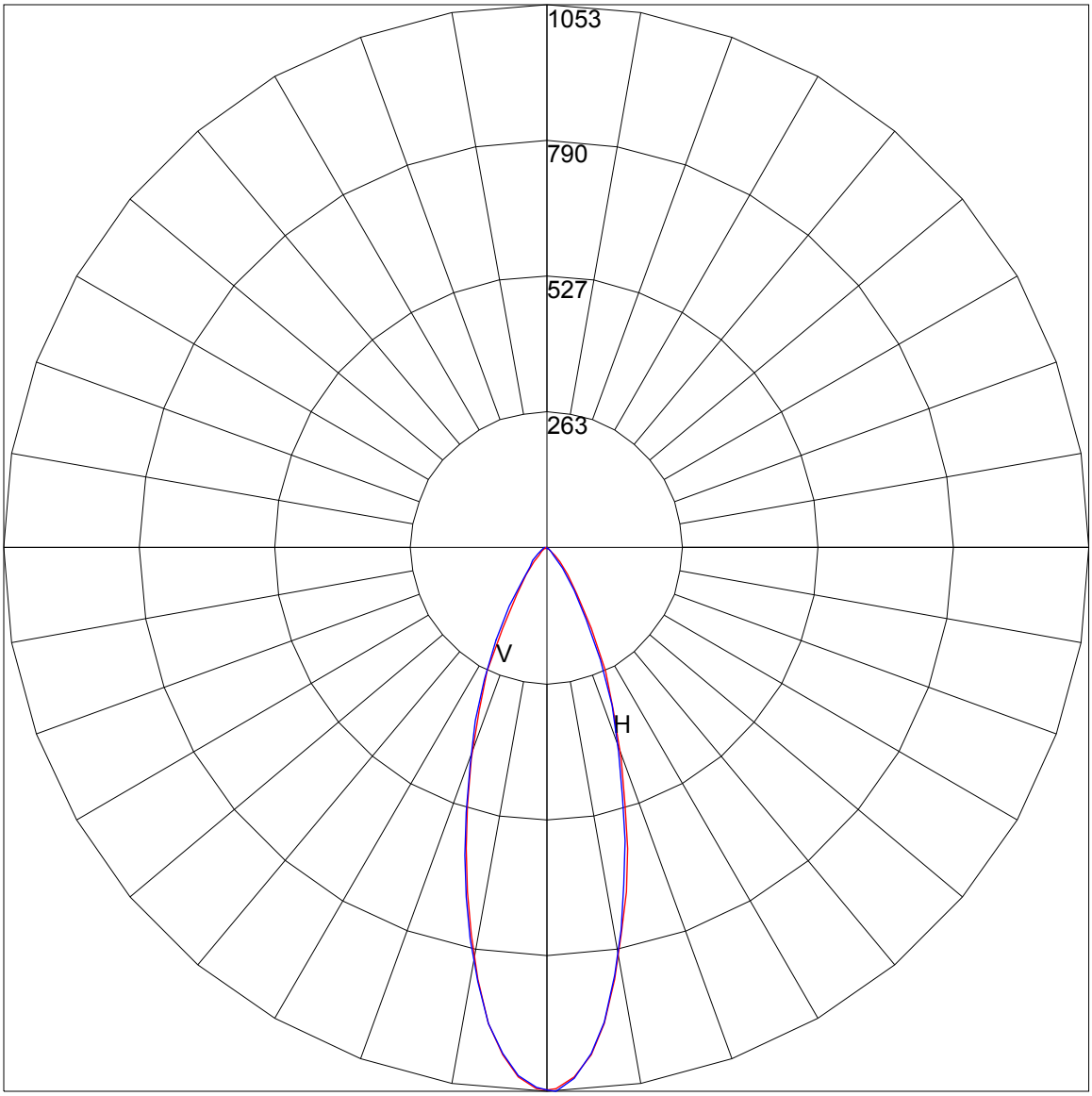
DEG.	HOR.	DEG.	VERT.
90	1	90	1
85	2	85	1
75	2	75	1
65	4	65	1
55	11	55	5
47.5	20	47.5	10
42.5	38	42.5	20
37.5	66	37.5	50
33	107	33	99
29	177	29	159
25.5	266	25.5	241
22.5	341	22.5	331
19.5	434	19.5	420
17	522	17	506
15	604	15	588
13	684	13	672
11	763	11	754
9	846	9	839
7	929	7	926
5	985	5	983
3	1026	3	1029
1	1047	1	1053
0	1050	0	1050
-1	1047	-1	1046
-3	1026	-3	1025
-5	985	-5	983
-7	929	-7	929
-9	846	-9	850
-11	763	-11	772
-13	684	-13	695
-15	604	-15	616
-17	522	-17	536
-19.5	434	-19.5	446
-22.5	341	-22.5	363
-25.5	266	-25.5	282
-29	177	-29	203
-33	107	-33	135
-37.5	66	-37.5	75
-42.5	38	-42.5	49
-47.5	20	-47.5	36
-55	11	-55	20
-65	4	-65	11
-75	2	-75	6
-85	2	-85	3
-90	1	-90	3

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AXIAL CANDELA DISPLAY



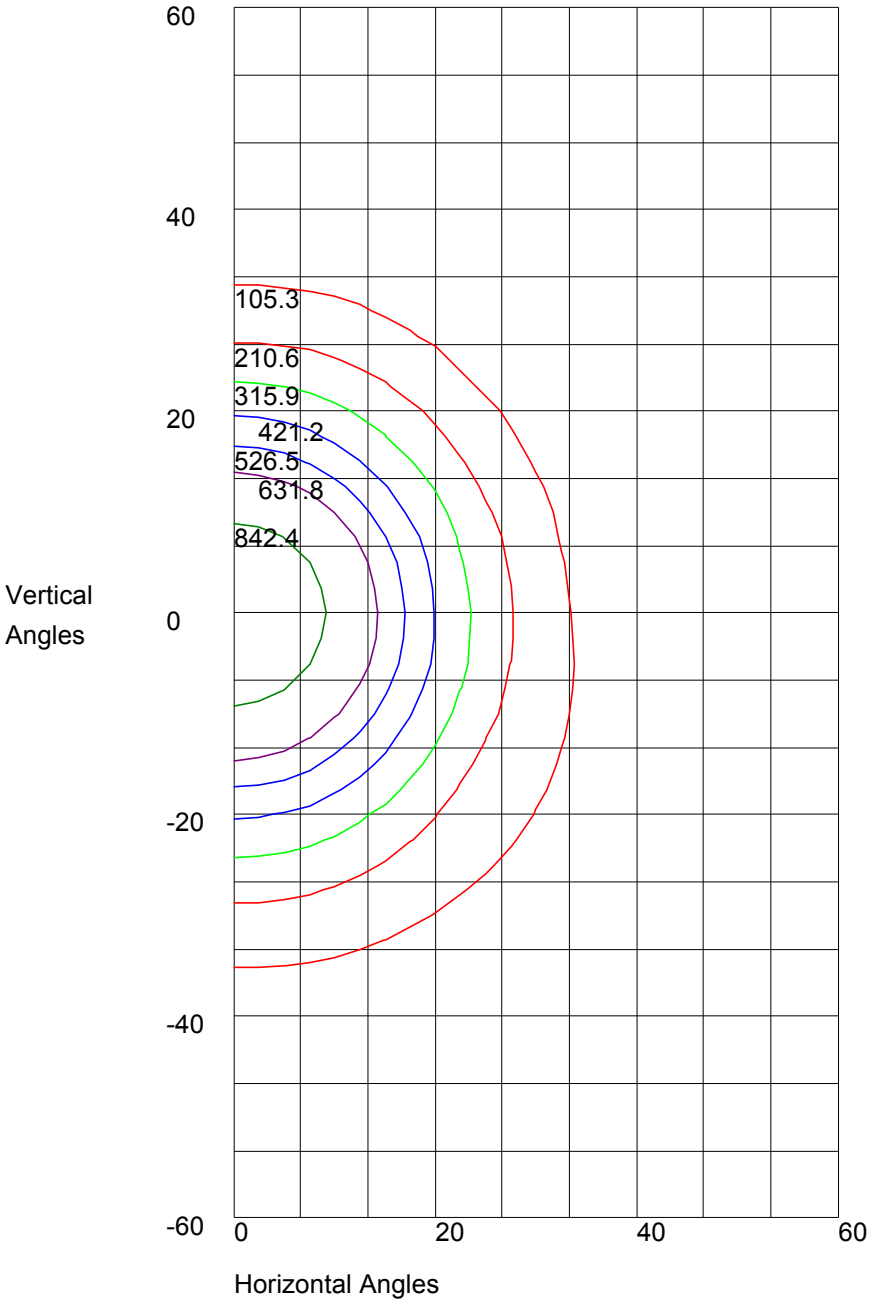
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H - Horizontal Axial Candela
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ISOCANDELA CURVES



Maximum Candela = 1053 Located At Horizontal Angle = 0, Vertical Angle = 1
50% Maximum Candela = 526.5
10% Maximum Candela = 105.3

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