



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

Report No: L032511502



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Issue Date: 3/25/2025

Report Prepared For: HK Lighting
2151 Anchor Ct, Thousand Oaks CA 91320

Reference:N/A

Amendment:N/A

Model Number: ZXL30-IR1FB-ABR-UNIV38W-30M

Test: Photometric/Colorimetric/Electrical Test

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

IES LM79: 2008 Approved Methods for Electrical and Photometric Measurements of Solid-State Lighting Products

ANSI/IES LM79: 2019 Approved Methods for Optical and Electrical Measurements of Solid-State Lighting Products

ANSI/NEMA 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: 3/25/25

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-S3	6/21/26
HP Power Supply	6032A	PS-DC05-S2	--
Fluke Digital Thermometer	52K/J	MT-TP05	6/25/26
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

Manufacturer:	HK Lighting
Model Number:	ZXL30-IR1FB-ABR-UNIV38W-30M
Driver Model Number:	ERP PSB50W-1200-42

Test Summary

Total Lumens:	2897.00
Efficacy:	77.76
Color Redering Index:	93.3
Correlated Color Temperature:	2966
Input Voltage (VAC/60Hz):	120.03
Input Current (Amp):	0.3215
Input Power (W):	37.25
Input Power Factor:	0.9654
Current ATHD (%):	15.1%

Test Condition

Ambient Temperature (°C):	25.0
Stabilization Time (Hours):	0:45
Total Operating Time (Hours):	1:10

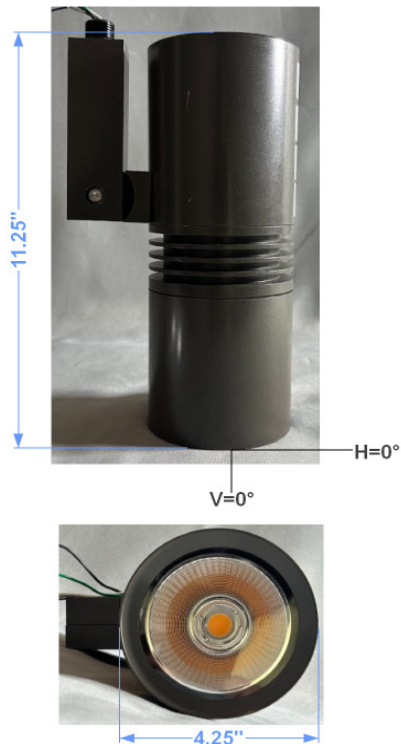
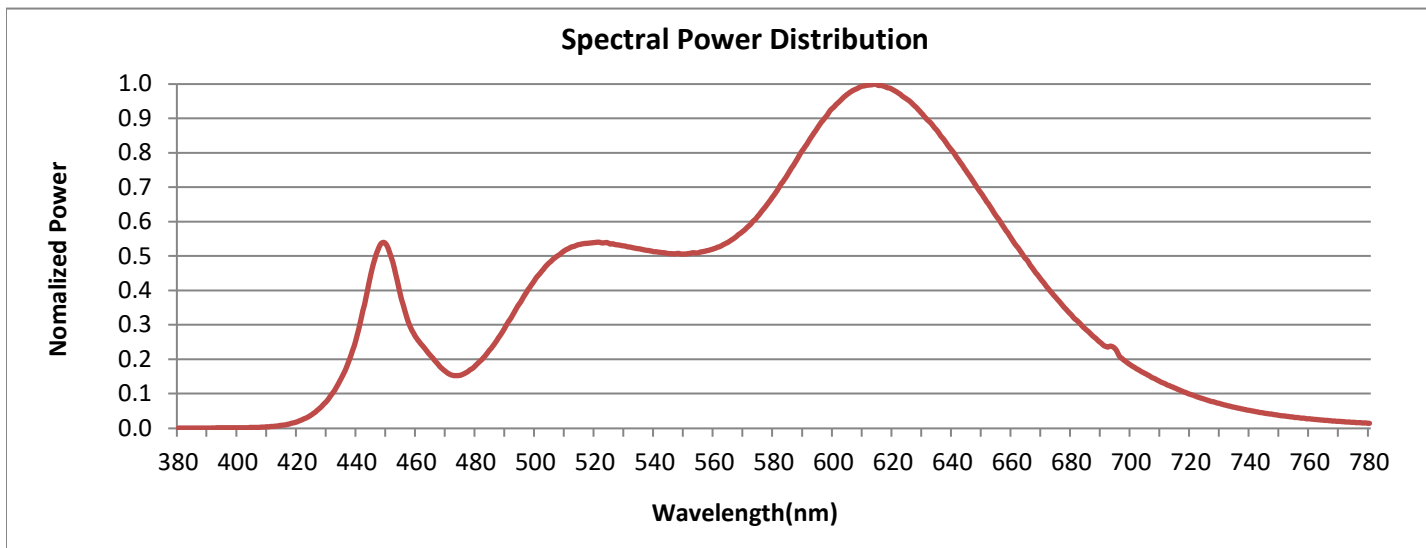


FIG. 1 LUMINAIRE

Colorimetry Test Results

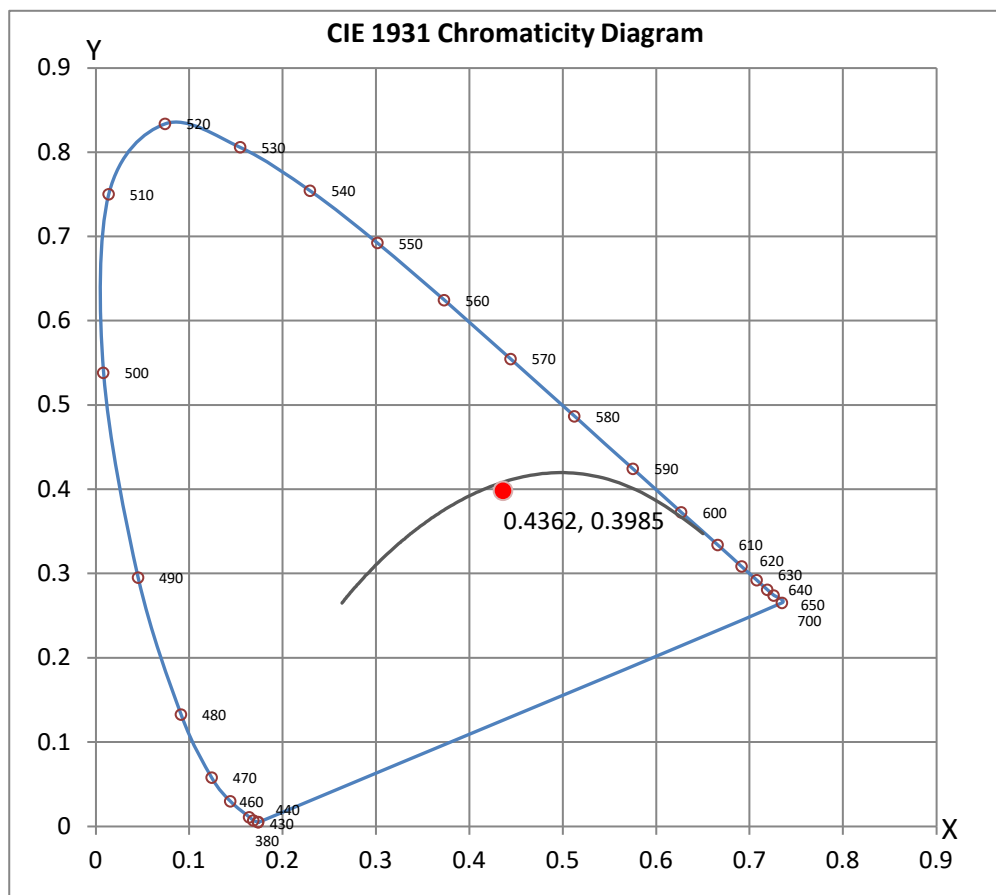


CRI & CCT

x	0.4362
y	0.3985
u'	0.2525
v'	0.5191
CRI	93.30
CCT	2966
Duv	-0.00214

R Values

R1	98.89
R2	98.40
R3	95.86
R4	95.32
R5	97.22
R6	91.26
R7	89.68
R8	80.16
R9	57.20
R10	95.40
R11	87.44
R12	92.92
R13	98.50
R14	98.20
R15	91.08





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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 : JG

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 : L032511502.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L032511502
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
[ISSUE DATE] 3/25/2025
[MANUFAC] HK Lighting
[LUMCAT] ZXL30-IR1FB-ABR-UNIV38W-30M
[LUMINAIRE] ZXL30 Accent Light, 38W, 3000K, Medium Beam
[BALLASTCAT] ERP PSB50W-1200-42
[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
[INPUT] 120VAC
[TEST PROCEDURE] IESNA:LM-79-19

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

CHARACTERISTICS

NEMA Type	4 H x 4 V
Maximum Candela	12157
Maximum Candela Angle	0H 0V
Horizontal Beam Angle (50%)	23.8
Vertical Beam Angle (50%)	23.8
Horizontal Field Angle (10%)	54.6
Vertical Field Angle (10%)	54.6
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	1161
Beam Efficiency	N.A.
Field Lumens	2577
Field Efficiency	N.A.
Spill Lumens	320
Luminaire Lumens	2897
Total Efficiency	N.A.
Total Luminaire Watts	37.25
Ballast Factor	1.00

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AXIAL CANDELA

DEG.	HOR.	DEG.	VERT.
90	0	90	0
85	0	85	0
75	3	75	3
65	5	65	5
55	10	55	10
47.5	16	47.5	16
42.5	23	42.5	23
37.5	45	37.5	45
33	117	33	117
29	915	29	915
25.5	1533	25.5	1533
22.5	1799	22.5	1799
19.5	2311	19.5	2311
17	3105	17	3105
15	4110	15	4110
13	5340	13	5340
11	6689	11	6689
9	8129	9	8129
7	9595	7	9595
5	10857	5	10857
3	11727	3	11727
1	12116	1	12116
0	12157	0	12157
-1	12116	-1	12116
-3	11727	-3	11727
-5	10857	-5	10857
-7	9595	-7	9595
-9	8129	-9	8129
-11	6689	-11	6689
-13	5340	-13	5340
-15	4110	-15	4110
-17	3105	-17	3105
-19.5	2311	-19.5	2311
-22.5	1799	-22.5	1799
-25.5	1533	-25.5	1533
-29	915	-29	915
-33	117	-33	117
-37.5	45	-37.5	45
-42.5	23	-42.5	23
-47.5	16	-47.5	16
-55	10	-55	10
-65	5	-65	5
-75	3	-75	3
-85	0	-85	0
-90	0	-90	0

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CANDELA TABULATION

Maximum Candela = 12157

Beam Edge = 6078.5 Cd (50% of Max.)

Field Edge = 1215.7 Cd (10% of Max.)

* Indicates Values Inside Field Edge

Vert. Angles	Horizontal Angles									
	<u>-90.0</u>	<u>-85.0</u>	<u>-75.0</u>	<u>-65.0</u>	<u>-55.0</u>	<u>-47.5</u>	<u>-42.5</u>	<u>-37.5</u>	<u>-33.0</u>	<u>-29.0</u>
90.0	0	0	0	0	0	0	0	0	0	0
85.0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	1	2	2	2	2	2
65.0	0	0	0	2	3	3	4	4	4	4
55.0	0	0	1	3	4	5	5	6	7	8
47.5	0	0	2	3	5	6	7	9	10	11
42.5	0	0	2	4	5	7	9	11	13	14
37.5	0	0	2	4	6	9	11	13	15	18
33.0	0	0	2	4	7	10	13	15	19	23
29.0	0	0	2	4	8	11	14	18	23	34
25.5	0	0	3	4	8	12	15	21	30	43
22.5	0	0	3	5	8	13	17	22	37	67
19.5	0	0	3	5	9	14	18	27	44	94
17.0	0	0	3	5	9	14	19	31	58	113
15.0	0	0	3	5	9	15	20	34	71	247
13.0	0	0	3	5	9	15	21	37	82	407
11.0	0	0	3	5	10	15	21	39	92	547
9.0	0	0	3	5	10	15	22	41	100	666
7.0	0	0	3	5	10	16	22	43	107	763
5.0	0	0	3	5	10	16	23	44	112	837
3.0	0	0	3	5	10	16	23	45	115	887
1.0	0	0	3	5	10	16	23	45	117	915
0.0	0	0	3	5	10	16	23	45	117	915
-1.0	0	0	3	5	10	16	23	45	117	915
-3.0	0	0	3	5	10	16	23	45	115	887
-5.0	0	0	3	5	10	16	23	44	112	837
-7.0	0	0	3	5	10	16	22	43	107	763
-9.0	0	0	3	5	10	15	22	41	100	666
-11.0	0	0	3	5	10	15	21	39	92	547
-13.0	0	0	3	5	9	15	21	37	82	407
-15.0	0	0	3	5	9	15	20	34	71	247
-17.0	0	0	3	5	9	14	19	31	58	113
-19.5	0	0	3	5	9	14	18	27	44	94
-22.5	0	0	3	5	8	13	17	22	37	67
-25.5	0	0	3	4	8	12	15	21	30	43
-29.0	0	0	2	4	8	11	14	18	23	34
-33.0	0	0	2	4	7	10	13	15	19	23
-37.5	0	0	2	4	6	9	11	13	15	18
-42.5	0	0	2	4	5	7	9	11	13	14
-47.5	0	0	2	3	5	6	7	9	10	11
-55.0	0	0	1	3	4	5	5	6	7	8
-65.0	0	0	0	2	3	3	4	4	4	4
-75.0	0	0	0	0	1	2	2	2	2	2
-85.0	0	0	0	0	0	0	0	0	0	0
-90.0	0	0	0	0	0	0	0	0	0	0

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CANDELA TABULATION - (Cont.)

Vert. Angles	Horizontal Angles									
	<u>-25.5</u>	<u>-22.5</u>	<u>-19.5</u>	<u>-17.0</u>	<u>-15.0</u>	<u>-13.0</u>	<u>-11.0</u>	<u>-9.0</u>	<u>-7.0</u>	<u>-5.0</u>
90.0	0	0	0	0	0	0	0	0	0	0
85.0	0	0	0	0	0	0	0	0	0	0
75.0	3	3	3	3	3	3	3	3	3	3
65.0	4	5	5	5	5	5	5	5	5	5
55.0	8	8	9	9	9	9	10	10	10	10
47.5	12	13	14	14	15	15	15	15	16	16
42.5	15	17	18	19	20	21	21	22	22	23
37.5	21	22	27	31	34	37	39	41	43	44
33.0	30	37	44	58	71	82	92	100	107	112
29.0	43	67	94	113	247	407	547	666	763	837
25.5	78	109	376	650	850	1017	1158	1279 *	1377 *	1453 *
22.5	109	436	828	1104	1299 *	1477 *	1585 *	1653 *	1709 *	1753 *
19.5	376	828	1214	1506 *	1629 *	1729 *	1836 *	1986 *	2111 *	2207 *
17.0	650	1104	1506 *	1678 *	1799 *	2007 *	2198 *	2415 *	2678 *	2883 *
15.0	850	1299 *	1629 *	1799 *	2040 *	2268 *	2620 *	2965 *	3347 *	3711 *
13.0	1017	1477 *	1729 *	2007 *	2268 *	2690 *	3121 *	3725 *	4272 *	4779 *
11.0	1158	1585 *	1836 *	2198 *	2620 *	3121 *	3855 *	4616 *	5340 *	5967 *
9.0	1279 *	1653 *	1986 *	2415 *	2965 *	3725 *	4616 *	5541 *	6430 *	7203 *
7.0	1377 *	1709 *	2111 *	2678 *	3347 *	4272 *	5340 *	6430 *	7490 *	8426 *
5.0	1453 *	1753 *	2207 *	2883 *	3711 *	4779 *	5967 *	7203 *	8426 *	9595 *
3.0	1504 *	1782 *	2273 *	3024 *	3964 *	5133 *	6421 *	7781 *	9146 *	10334 *
1.0	1533 *	1799 *	2311 *	3105 *	4110 *	5340 *	6689 *	8129 *	9595 *	10857 *
0.0	1533 *	1799 *	2311 *	3105 *	4110 *	5340 *	6689 *	8129 *	9595 *	10857 *
-1.0	1533 *	1799 *	2311 *	3105 *	4110 *	5340 *	6689 *	8129 *	9595 *	10857 *
-3.0	1504 *	1782 *	2273 *	3024 *	3964 *	5133 *	6421 *	7781 *	9146 *	10334 *
-5.0	1453 *	1753 *	2207 *	2883 *	3711 *	4779 *	5967 *	7203 *	8426 *	9595 *
-7.0	1377 *	1709 *	2111 *	2678 *	3347 *	4272 *	5340 *	6430 *	7490 *	8426 *
-9.0	1279 *	1653 *	1986 *	2415 *	2965 *	3725 *	4616 *	5541 *	6430 *	7203 *
-11.0	1158	1585 *	1836 *	2198 *	2620 *	3121 *	3855 *	4616 *	5340 *	5967 *
-13.0	1017	1477 *	1729 *	2007 *	2268 *	2690 *	3121 *	3725 *	4272 *	4779 *
-15.0	850	1299 *	1629 *	1799 *	2040 *	2268 *	2620 *	2965 *	3347 *	3711 *
-17.0	650	1104	1506 *	1678 *	1799 *	2007 *	2198 *	2415 *	2678 *	2883 *
-19.5	376	828	1214	1506 *	1629 *	1729 *	1836 *	1986 *	2111 *	2207 *
-22.5	109	436	828	1104	1299 *	1477 *	1585 *	1653 *	1709 *	1753 *
-25.5	78	109	376	650	850	1017	1158	1279 *	1377 *	1453 *
-29.0	43	67	94	113	247	407	547	666	763	837
-33.0	30	37	44	58	71	82	92	100	107	112
-37.5	21	22	27	31	34	37	39	41	43	44
-42.5	15	17	18	19	20	21	21	22	22	23
-47.5	12	13	14	14	15	15	15	15	16	16
-55.0	8	8	9	9	9	9	10	10	10	10
-65.0	4	5	5	5	5	5	5	5	5	5
-75.0	3	3	3	3	3	3	3	3	3	3
-85.0	0	0	0	0	0	0	0	0	0	0
-90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	<u>-3.0</u>	<u>-1.0</u>	<u>0.0</u>	<u>1.0</u>	<u>3.0</u>	<u>5.0</u>	<u>7.0</u>	<u>9.0</u>	<u>11.0</u>	<u>13.0</u>
90.0	0	0	0	0	0	0	0	0	0	0
85.0	0	0	0	0	0	0	0	0	0	0
75.0	3	3	3	3	3	3	3	3	3	3
65.0	5	5	5	5	5	5	5	5	5	5

IES FLOOD REPORT
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CANDELA TABULATION - (Cont.)

55.0	10	10	10	10	10	10	10	10	10	9
47.5	16	16	16	16	16	16	16	15	15	15
42.5	23	23	23	23	23	23	22	22	21	21
37.5	45	45	45	45	45	44	43	41	39	37
33.0	115	117	117	117	115	112	107	100	92	82
29.0	887	915	915	915	887	837	763	666	547	407
25.5	1504 *	1533 *	1533 *	1533 *	1504 *	1453 *	1377 *	1279 *	1158	1017
22.5	1782 *	1799 *	1799 *	1799 *	1782 *	1753 *	1709 *	1653 *	1585 *	1477 *
19.5	2273 *	2311 *	2311 *	2311 *	2273 *	2207 *	2111 *	1986 *	1836 *	1729 *
17.0	3024 *	3105 *	3105 *	3105 *	3024 *	2883 *	2678 *	2415 *	2198 *	2007 *
15.0	3964 *	4110 *	4110 *	4110 *	3964 *	3711 *	3347 *	2965 *	2620 *	2268 *
13.0	5133 *	5340 *	5340 *	5340 *	5133 *	4779 *	4272 *	3725 *	3121 *	2690 *
11.0	6421 *	6689 *	6689 *	6689 *	6421 *	5967 *	5340 *	4616 *	3855 *	3121 *
9.0	7781 *	8129 *	8129 *	8129 *	7781 *	7203 *	6430 *	5541 *	4616 *	3725 *
7.0	9146 *	9595 *	9595 *	9595 *	9146 *	8426 *	7490 *	6430 *	5340 *	4272 *
5.0	10334 *	10857 *	10857 *	10857 *	10334 *	9595 *	8426 *	7203 *	5967 *	4779 *
3.0	11187 *	11656 *	11727 *	11656 *	11187 *	10334 *	9146 *	7781 *	6421 *	5133 *
1.0	11656 *	12035 *	12116 *	12035 *	11656 *	10857 *	9595 *	8129 *	6689 *	5340 *
0.0	11727 *	12116 *	12157 *	12116 *	11727 *	10857 *	9595 *	8129 *	6689 *	5340 *
-1.0	11656 *	12035 *	12116 *	12035 *	11656 *	10857 *	9595 *	8129 *	6689 *	5340 *
-3.0	11187 *	11656 *	11727 *	11656 *	11187 *	10334 *	9146 *	7781 *	6421 *	5133 *
-5.0	10334 *	10857 *	10857 *	10857 *	10334 *	9595 *	8426 *	7203 *	5967 *	4779 *
-7.0	9146 *	9595 *	9595 *	9595 *	9146 *	8426 *	7490 *	6430 *	5340 *	4272 *
-9.0	7781 *	8129 *	8129 *	8129 *	7781 *	7203 *	6430 *	5541 *	4616 *	3725 *
-11.0	6421 *	6689 *	6689 *	6689 *	6421 *	5967 *	5340 *	4616 *	3855 *	3121 *
-13.0	5133 *	5340 *	5340 *	5340 *	5133 *	4779 *	4272 *	3725 *	3121 *	2690 *
-15.0	3964 *	4110 *	4110 *	4110 *	3964 *	3711 *	3347 *	2965 *	2620 *	2268 *
-17.0	3024 *	3105 *	3105 *	3105 *	3024 *	2883 *	2678 *	2415 *	2198 *	2007 *
-19.5	2273 *	2311 *	2311 *	2311 *	2273 *	2207 *	2111 *	1986 *	1836 *	1729 *
-22.5	1782 *	1799 *	1799 *	1799 *	1782 *	1753 *	1709 *	1653 *	1585 *	1477 *
-25.5	1504 *	1533 *	1533 *	1533 *	1504 *	1453 *	1377 *	1279 *	1158	1017
-29.0	887	915	915	915	887	837	763	666	547	407
-33.0	115	117	117	117	115	112	107	100	92	82
-37.5	45	45	45	45	45	44	43	41	39	37
-42.5	23	23	23	23	23	23	22	22	21	21
-47.5	16	16	16	16	16	16	16	15	15	15
-55.0	10	10	10	10	10	10	10	10	10	9
-65.0	5	5	5	5	5	5	5	5	5	5
-75.0	3	3	3	3	3	3	3	3	3	3
-85.0	0	0	0	0	0	0	0	0	0	0
-90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles

	<u>15.0</u>	<u>17.0</u>	<u>19.5</u>	<u>22.5</u>	<u>25.5</u>	<u>29.0</u>	<u>33.0</u>	<u>37.5</u>	<u>42.5</u>	<u>47.5</u>
90.0	0	0	0	0	0	0	0	0	0	0
85.0	0	0	0	0	0	0	0	0	0	0
75.0	3	3	3	3	3	2	2	2	2	2
65.0	5	5	5	5	4	4	4	4	4	3
55.0	9	9	9	8	8	8	7	6	5	5
47.5	15	14	14	13	12	11	10	9	7	6
42.5	20	19	18	17	15	14	13	11	9	7
37.5	34	31	27	22	21	18	15	13	11	9
33.0	71	58	44	37	30	23	19	15	13	10
29.0	247	113	94	67	43	34	23	18	14	11
25.5	850	650	376	109	78	43	30	21	15	12

IES FLOOD REPORT
PHOTOMETRIC FILENAME : L032511502.IES

CANDELA TABULATION - (Cont.)

22.5	1299 *	1104	828	436	109	67	37	22	17	13
19.5	1629 *	1506 *	1214	828	376	94	44	27	18	14
17.0	1799 *	1678 *	1506 *	1104	650	113	58	31	19	14
15.0	2040 *	1799 *	1629 *	1299 *	850	247	71	34	20	15
13.0	2268 *	2007 *	1729 *	1477 *	1017	407	82	37	21	15
11.0	2620 *	2198 *	1836 *	1585 *	1158	547	92	39	21	15
9.0	2965 *	2415 *	1986 *	1653 *	1279 *	666	100	41	22	15
7.0	3347 *	2678 *	2111 *	1709 *	1377 *	763	107	43	22	16
5.0	3711 *	2883 *	2207 *	1753 *	1453 *	837	112	44	23	16
3.0	3964 *	3024 *	2273 *	1782 *	1504 *	887	115	45	23	16
1.0	4110 *	3105 *	2311 *	1799 *	1533 *	915	117	45	23	16
0.0	4110 *	3105 *	2311 *	1799 *	1533 *	915	117	45	23	16
-1.0	4110 *	3105 *	2311 *	1799 *	1533 *	915	117	45	23	16
-3.0	3964 *	3024 *	2273 *	1782 *	1504 *	887	115	45	23	16
-5.0	3711 *	2883 *	2207 *	1753 *	1453 *	837	112	44	23	16
-7.0	3347 *	2678 *	2111 *	1709 *	1377 *	763	107	43	22	16
-9.0	2965 *	2415 *	1986 *	1653 *	1279 *	666	100	41	22	15
-11.0	2620 *	2198 *	1836 *	1585 *	1158	547	92	39	21	15
-13.0	2268 *	2007 *	1729 *	1477 *	1017	407	82	37	21	15
-15.0	2040 *	1799 *	1629 *	1299 *	850	247	71	34	20	15
-17.0	1799 *	1678 *	1506 *	1104	650	113	58	31	19	14
-19.5	1629 *	1506 *	1214	828	376	94	44	27	18	14
-22.5	1299 *	1104	828	436	109	67	37	22	17	13
-25.5	850	650	376	109	78	43	30	21	15	12
-29.0	247	113	94	67	43	34	23	18	14	11
-33.0	71	58	44	37	30	23	19	15	13	10
-37.5	34	31	27	22	21	18	15	13	11	9
-42.5	20	19	18	17	15	14	13	11	9	7
-47.5	15	14	14	13	12	11	10	9	7	6
-55.0	9	9	9	8	8	8	7	6	5	5
-65.0	5	5	5	5	4	4	4	4	4	3
-75.0	3	3	3	3	3	2	2	2	2	2
-85.0	0	0	0	0	0	0	0	0	0	0
-90.0	0	0	0	0	0	0	0	0	0	0

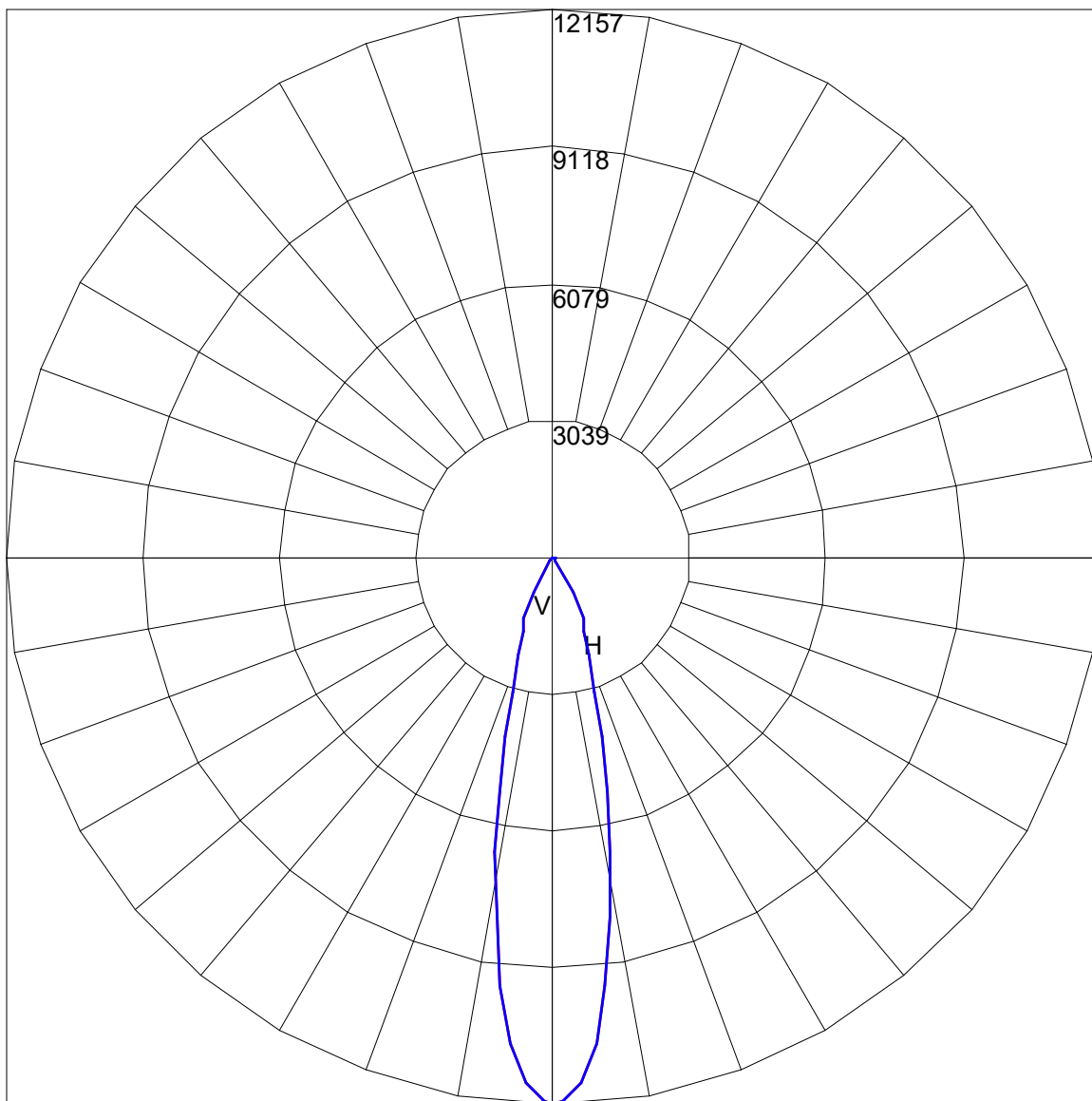
Vert. Angles	Horizontal Angles				
	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>	<u>85.0</u>	<u>90.0</u>
90.0	0	0	0	0	0
85.0	0	0	0	0	0
75.0	1	0	0	0	0
65.0	3	2	0	0	0
55.0	4	3	1	0	0
47.5	5	3	2	0	0
42.5	5	4	2	0	0
37.5	6	4	2	0	0
33.0	7	4	2	0	0
29.0	8	4	2	0	0
25.5	8	4	3	0	0
22.5	8	5	3	0	0
19.5	9	5	3	0	0
17.0	9	5	3	0	0
15.0	9	5	3	0	0
13.0	9	5	3	0	0
11.0	10	5	3	0	0
9.0	10	5	3	0	0

IES FLOOD REPORT
PHOTOMETRIC FILENAME : L032511502.IES

CANDELA TABULATION - (Cont.)

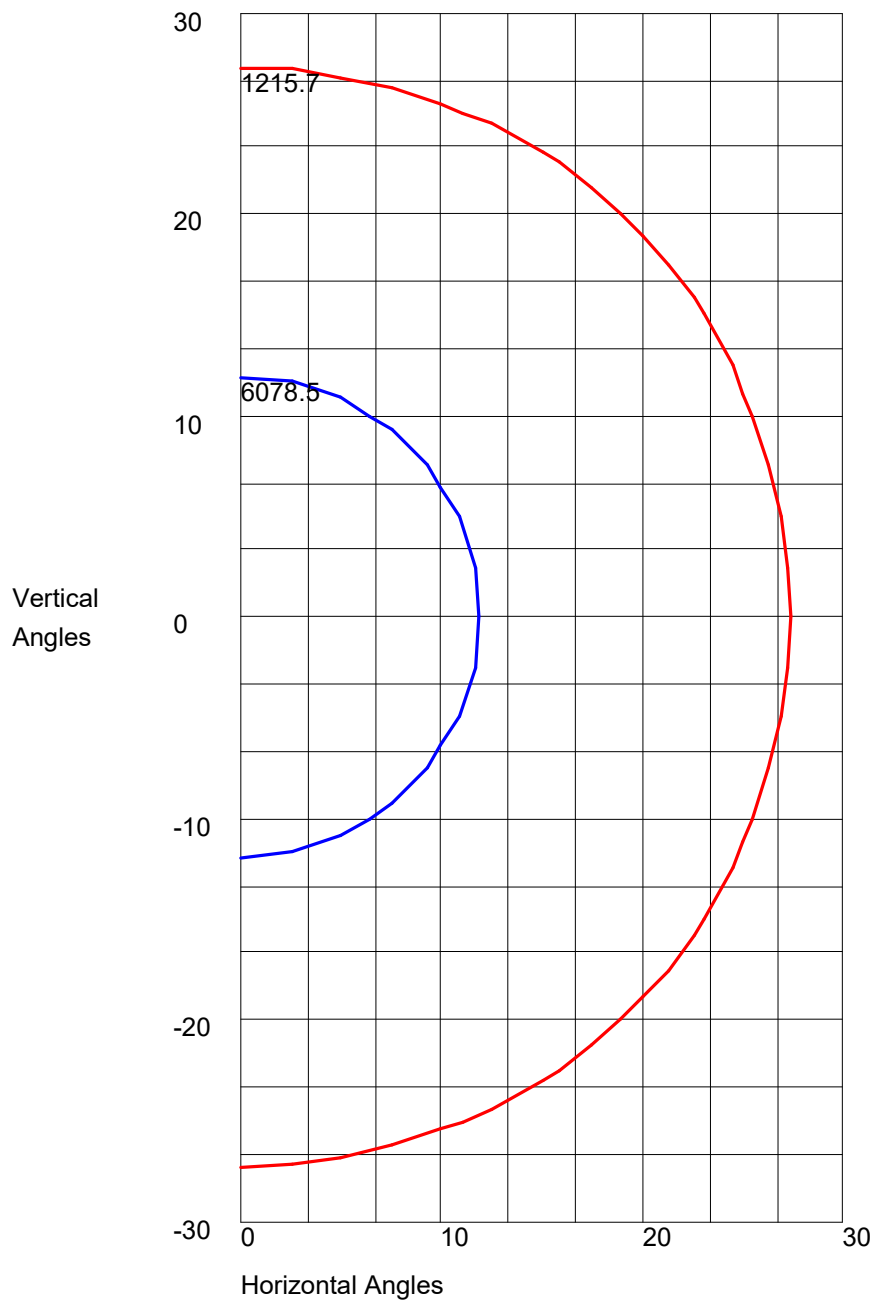
7.0	10	5	3	0	0
5.0	10	5	3	0	0
3.0	10	5	3	0	0
1.0	10	5	3	0	0
0.0	10	5	3	0	0
-1.0	10	5	3	0	0
-3.0	10	5	3	0	0
-5.0	10	5	3	0	0
-7.0	10	5	3	0	0
-9.0	10	5	3	0	0
-11.0	10	5	3	0	0
-13.0	9	5	3	0	0
-15.0	9	5	3	0	0
-17.0	9	5	3	0	0
-19.5	9	5	3	0	0
-22.5	8	5	3	0	0
-25.5	8	4	3	0	0
-29.0	8	4	2	0	0
-33.0	7	4	2	0	0
-37.5	6	4	2	0	0
-42.5	5	4	2	0	0
-47.5	5	3	2	0	0
-55.0	4	3	1	0	0
-65.0	3	2	0	0	0
-75.0	1	0	0	0	0
-85.0	0	0	0	0	0
-90.0	0	0	0	0	0

AXIAL CANDELA DISPLAY



Maximum Candela = 12157 Located At Horizontal Angle = 0, Vertical Angle = 0
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 12157 Located At Horizontal Angle = 0, Vertical Angle = 0
50% Maximum Candela = 6078.5
10% Maximum Candela = 1215.7