



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

Report No: L032511501



Report No: L032511501

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-30N

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-30N
Driver Model Number:	ERP PSB50W-1200-42

Test Summary

Total Lumens:	2771.00
Efficacy:	74.32
Color Redering Index:	93.3
Correlated Color Temperature:	2955
Input Voltage (VAC/60Hz):	120.01
Input Current (Amp):	0.3218
Input Power (W):	37.28
Input Power Factor:	0.9655
Current ATHD (%):	15.1%

Test Condition

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

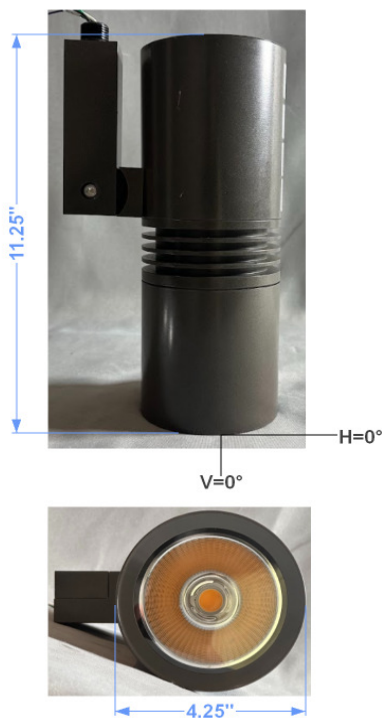
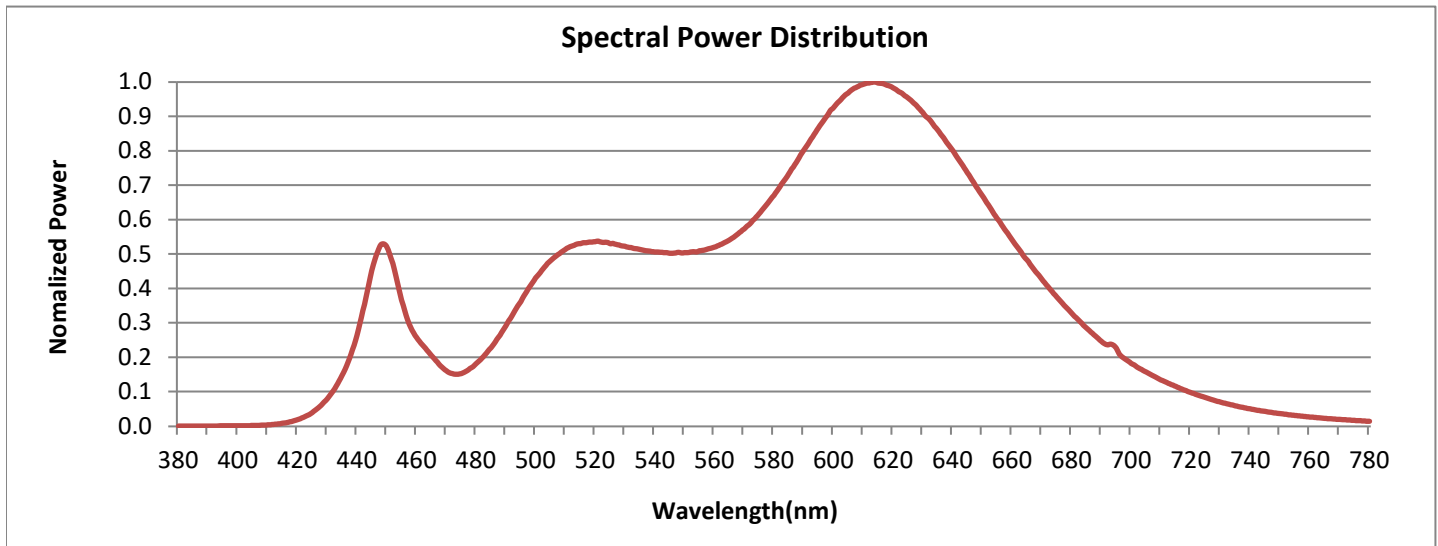


FIG. 1 LUMINAIRE

Colorimetry Test Results

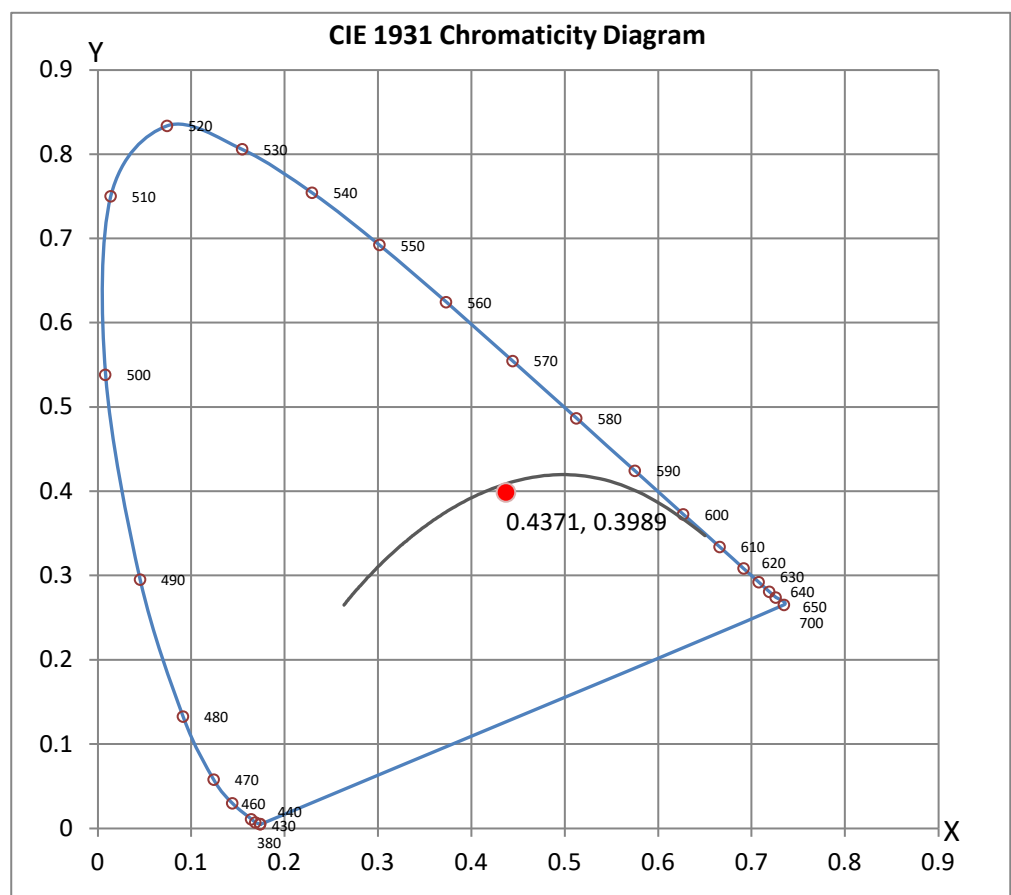


CRI & CCT

x	0.4371
y	0.3989
u'	0.2529
v'	0.5194
CRI	93.30
CCT	2955
Duv	-0.00210

R Values

R1	98.91
R2	98.39
R3	95.85
R4	95.28
R5	97.15
R6	91.18
R7	89.69
R8	80.20
R9	57.32
R10	95.34
R11	87.37
R12	92.87
R13	98.47
R14	98.21
R15	91.15





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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 : L032511501.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L032511501

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

[ISSUEDATE] 3/25/2025

[MANUFAC] HK Lighting

[LUMCAT] ZXL30-IR1FB-ABR-UNIV38W-30N

[LUMINAIRE] ZXL30 Accent Light, 38W, 3000K, Narrow 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	3 H x 3 V
Maximum Candela	21885
Maximum Candela Angle	0H 0V
Horizontal Beam Angle (50%)	14.4
Vertical Beam Angle (50%)	14.4
Horizontal Field Angle (10%)	33.9
Vertical Field Angle (10%)	33.9
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	700
Beam Efficiency	N.A.
Field Lumens	1855
Field Efficiency	N.A.
Spill Lumens	916
Luminaire Lumens	2771
Total Efficiency	N.A.
Total Luminaire Watts	37.28
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	6	65	6
55	9	55	9
47.5	12	47.5	12
42.5	16	42.5	16
37.5	30	37.5	30
33	114	33	114
29	954	29	954
25.5	1447	25.5	1447
22.5	1542	22.5	1542
19.5	1726	19.5	1726
17	2170	17	2170
15	2893	15	2893
13	3901	13	3901
11	5523	11	5523
9	7973	9	7973
7	11244	7	11244
5	14963	5	14963
3	18763	3	18763
1	21502	1	21502
0	21885	0	21885
-1	21502	-1	21502
-3	18763	-3	18763
-5	14963	-5	14963
-7	11244	-7	11244
-9	7973	-9	7973
-11	5523	-11	5523
-13	3901	-13	3901
-15	2893	-15	2893
-17	2170	-17	2170
-19.5	1726	-19.5	1726
-22.5	1542	-22.5	1542
-25.5	1447	-25.5	1447
-29	954	-29	954
-33	114	-33	114
-37.5	30	-37.5	30
-42.5	16	-42.5	16
-47.5	12	-47.5	12
-55	9	-55	9
-65	6	-65	6
-75	3	-75	3
-85	0	-85	0
-90	0	-90	0

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CANDELA TABULATION

Maximum Candela = 21885

Beam Edge = 10942.5 Cd (50% of Max.)

Field Edge = 2188.5 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	5	5
55.0	0	0	1	3	4	5	6	7	7	8
47.5	0	0	2	3	5	7	7	8	9	9
42.5	0	0	2	4	6	7	8	9	10	11
37.5	0	0	2	4	7	8	9	11	12	13
33.0	0	0	2	5	7	9	10	12	14	16
29.0	0	0	2	5	8	9	11	13	16	23
25.5	0	0	3	5	8	10	12	15	21	29
22.5	0	0	3	5	8	10	12	16	25	56
19.5	0	0	3	6	8	11	13	19	29	87
17.0	0	0	3	6	8	11	14	21	45	110
15.0	0	0	3	6	9	11	14	23	60	251
13.0	0	0	3	6	9	11	15	25	73	419
11.0	0	0	3	6	9	12	15	26	84	566
9.0	0	0	3	6	9	12	15	27	94	692
7.0	0	0	3	6	9	12	16	28	102	794
5.0	0	0	3	6	9	12	16	29	108	872
3.0	0	0	3	6	9	12	16	30	112	924
1.0	0	0	3	6	9	12	16	30	114	954
0.0	0	0	3	6	9	12	16	30	114	954
-1.0	0	0	3	6	9	12	16	30	114	954
-3.0	0	0	3	6	9	12	16	30	112	924
-5.0	0	0	3	6	9	12	16	29	108	872
-7.0	0	0	3	6	9	12	16	28	102	794
-9.0	0	0	3	6	9	12	15	27	94	692
-11.0	0	0	3	6	9	12	15	26	84	566
-13.0	0	0	3	6	9	11	15	25	73	419
-15.0	0	0	3	6	9	11	14	23	60	251
-17.0	0	0	3	6	8	11	14	21	45	110
-19.5	0	0	3	6	8	11	13	19	29	87
-22.5	0	0	3	5	8	10	12	16	25	56
-25.5	0	0	3	5	8	10	12	15	21	29
-29.0	0	0	2	5	8	9	11	13	16	23
-33.0	0	0	2	5	7	9	10	12	14	16
-37.5	0	0	2	4	7	8	9	11	12	13
-42.5	0	0	2	4	6	7	8	9	10	11
-47.5	0	0	2	3	5	7	7	8	9	9
-55.0	0	0	1	3	4	5	6	7	7	8
-65.0	0	0	0	2	3	3	4	4	5	5
-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	5	5	6	6	6	6	6	6	6	6
55.0	8	8	8	8	9	9	9	9	9	9
47.5	10	10	11	11	11	11	12	12	12	12
42.5	12	12	13	14	14	15	15	15	16	16
37.5	15	16	19	21	23	25	26	27	28	29
33.0	21	25	29	45	60	73	84	94	102	108
29.0	29	56	87	110	251	419	566	692	794	872
25.5	68	105	387	675	885	1035	1148	1244	1323	1383
22.5	105	450	862	1105	1261	1403	1465	1490	1510	1526
19.5	387	862	1193	1426	1481	1517	1555	1609	1654	1689
17.0	675	1105	1426	1499	1542	1617	1686	1784	1931	2046
15.0	885	1261	1481	1542	1628	1711	1899	2092	2344 *	2606 *
13.0	1035	1403	1517	1617	1711	1938	2182	2616 *	3026 *	3441 *
11.0	1148	1465	1555	1686	1899	2182	2709 *	3308 *	3901 *	4655 *
9.0	1244	1490	1609	1784	2092	2616 *	3308 *	4143 *	5212 *	6398 *
7.0	1323	1510	1654	1931	2344 *	3026 *	3901 *	5212 *	6886 *	8635 *
5.0	1383	1526	1689	2046	2606 *	3441 *	4655 *	6398 *	8635 *	11244 *
3.0	1424	1536	1712	2125	2788 *	3732 *	5201 *	7381 *	10242 *	13421 *
1.0	1447	1542	1726	2170	2893 *	3901 *	5523 *	7973 *	11244 *	14963 *
0.0	1447	1542	1726	2170	2893 *	3901 *	5523 *	7973 *	11244 *	14963 *
-1.0	1447	1542	1726	2170	2893 *	3901 *	5523 *	7973 *	11244 *	14963 *
-3.0	1424	1536	1712	2125	2788 *	3732 *	5201 *	7381 *	10242 *	13421 *
-5.0	1383	1526	1689	2046	2606 *	3441 *	4655 *	6398 *	8635 *	11244 *
-7.0	1323	1510	1654	1931	2344 *	3026 *	3901 *	5212 *	6886 *	8635 *
-9.0	1244	1490	1609	1784	2092	2616 *	3308 *	4143 *	5212 *	6398 *
-11.0	1148	1465	1555	1686	1899	2182	2709 *	3308 *	3901 *	4655 *
-13.0	1035	1403	1517	1617	1711	1938	2182	2616 *	3026 *	3441 *
-15.0	885	1261	1481	1542	1628	1711	1899	2092	2344 *	2606 *
-17.0	675	1105	1426	1499	1542	1617	1686	1784	1931	2046
-19.5	387	862	1193	1426	1481	1517	1555	1609	1654	1689
-22.5	105	450	862	1105	1261	1403	1465	1490	1510	1526
-25.5	68	105	387	675	885	1035	1148	1244	1323	1383
-29.0	29	56	87	110	251	419	566	692	794	872
-33.0	21	25	29	45	60	73	84	94	102	108
-37.5	15	16	19	21	23	25	26	27	28	29
-42.5	12	12	13	14	14	15	15	15	16	16
-47.5	10	10	11	11	11	11	12	12	12	12
-55.0	8	8	8	8	9	9	9	9	9	9
-65.0	5	5	6	6	6	6	6	6	6	6
-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	6	6	6	6	6	6	6	6	6	6

IES FLOOD REPORT
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CANDELA TABULATION - (Cont.)

55.0	9	9	9	9	9	9	9	9	9	9
47.5	12	12	12	12	12	12	12	12	12	11
42.5	16	16	16	16	16	16	16	15	15	15
37.5	30	30	30	30	30	29	28	27	26	25
33.0	112	114	114	114	112	108	102	94	84	73
29.0	924	954	954	954	924	872	794	692	566	419
25.5	1424	1447	1447	1447	1424	1383	1323	1244	1148	1035
22.5	1536	1542	1542	1542	1536	1526	1510	1490	1465	1403
19.5	1712	1726	1726	1726	1712	1689	1654	1609	1555	1517
17.0	2125	2170	2170	2170	2125	2046	1931	1784	1686	1617
15.0	2788 *	2893 *	2893 *	2893 *	2788 *	2606 *	2344 *	2092	1899	1711
13.0	3732 *	3901 *	3901 *	3901 *	3732 *	3441 *	3026 *	2616 *	2182	1938
11.0	5201 *	5523 *	5523 *	5523 *	5201 *	4655 *	3901 *	3308 *	2709 *	2182
9.0	7381 *	7973 *	7973 *	7973 *	7381 *	6398 *	5212 *	4143 *	3308 *	2616 *
7.0	10242 *	11244 *	11244 *	11244 *	10242 *	8635 *	6886 *	5212 *	3901 *	3026 *
5.0	13421 *	14963 *	14963 *	14963 *	13421 *	11244 *	8635 *	6398 *	4655 *	3441 *
3.0	16404 *	18455 *	18763 *	18455 *	16404 *	13421 *	10242 *	7381 *	5201 *	3732 *
1.0	18455 *	20935 *	21502 *	20935 *	18455 *	14963 *	11244 *	7973 *	5523 *	3901 *
0.0	18763 *	21502 *	21885 *	21502 *	18763 *	14963 *	11244 *	7973 *	5523 *	3901 *
-1.0	18455 *	20935 *	21502 *	20935 *	18455 *	14963 *	11244 *	7973 *	5523 *	3901 *
-3.0	16404 *	18455 *	18763 *	18455 *	16404 *	13421 *	10242 *	7381 *	5201 *	3732 *
-5.0	13421 *	14963 *	14963 *	14963 *	13421 *	11244 *	8635 *	6398 *	4655 *	3441 *
-7.0	10242 *	11244 *	11244 *	11244 *	10242 *	8635 *	6886 *	5212 *	3901 *	3026 *
-9.0	7381 *	7973 *	7973 *	7973 *	7381 *	6398 *	5212 *	4143 *	3308 *	2616 *
-11.0	5201 *	5523 *	5523 *	5523 *	5201 *	4655 *	3901 *	3308 *	2709 *	2182
-13.0	3732 *	3901 *	3901 *	3901 *	3732 *	3441 *	3026 *	2616 *	2182	1938
-15.0	2788 *	2893 *	2893 *	2893 *	2788 *	2606 *	2344 *	2092	1899	1711
-17.0	2125	2170	2170	2170	2125	2046	1931	1784	1686	1617
-19.5	1712	1726	1726	1726	1712	1689	1654	1609	1555	1517
-22.5	1536	1542	1542	1542	1536	1526	1510	1490	1465	1403
-25.5	1424	1447	1447	1447	1424	1383	1323	1244	1148	1035
-29.0	924	954	954	954	924	872	794	692	566	419
-33.0	112	114	114	114	112	108	102	94	84	73
-37.5	30	30	30	30	30	29	28	27	26	25
-42.5	16	16	16	16	16	16	16	15	15	15
-47.5	12	12	12	12	12	12	12	12	12	11
-55.0	9	9	9	9	9	9	9	9	9	9
-65.0	6	6	6	6	6	6	6	6	6	6
-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>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	6	6	6	5	5	5	5	4	4	3
55.0	9	8	8	8	8	8	7	7	6	5
47.5	11	11	11	10	10	9	9	8	7	7
42.5	14	14	13	12	12	11	10	9	8	7
37.5	23	21	19	16	15	13	12	11	9	8
33.0	60	45	29	25	21	16	14	12	10	9
29.0	251	110	87	56	29	23	16	13	11	9
25.5	885	675	387	105	68	29	21	15	12	10

IES FLOOD REPORT
PHOTOMETRIC FILENAME : L032511501.IES

CANDELA TABULATION - (Cont.)

22.5	1261	1105	862	450	105	56	25	16	12	10
19.5	1481	1426	1193	862	387	87	29	19	13	11
17.0	1542	1499	1426	1105	675	110	45	21	14	11
15.0	1628	1542	1481	1261	885	251	60	23	14	11
13.0	1711	1617	1517	1403	1035	419	73	25	15	11
11.0	1899	1686	1555	1465	1148	566	84	26	15	12
9.0	2092	1784	1609	1490	1244	692	94	27	15	12
7.0	2344 *	1931	1654	1510	1323	794	102	28	16	12
5.0	2606 *	2046	1689	1526	1383	872	108	29	16	12
3.0	2788 *	2125	1712	1536	1424	924	112	30	16	12
1.0	2893 *	2170	1726	1542	1447	954	114	30	16	12
0.0	2893 *	2170	1726	1542	1447	954	114	30	16	12
-1.0	2893 *	2170	1726	1542	1447	954	114	30	16	12
-3.0	2788 *	2125	1712	1536	1424	924	112	30	16	12
-5.0	2606 *	2046	1689	1526	1383	872	108	29	16	12
-7.0	2344 *	1931	1654	1510	1323	794	102	28	16	12
-9.0	2092	1784	1609	1490	1244	692	94	27	15	12
-11.0	1899	1686	1555	1465	1148	566	84	26	15	12
-13.0	1711	1617	1517	1403	1035	419	73	25	15	11
-15.0	1628	1542	1481	1261	885	251	60	23	14	11
-17.0	1542	1499	1426	1105	675	110	45	21	14	11
-19.5	1481	1426	1193	862	387	87	29	19	13	11
-22.5	1261	1105	862	450	105	56	25	16	12	10
-25.5	885	675	387	105	68	29	21	15	12	10
-29.0	251	110	87	56	29	23	16	13	11	9
-33.0	60	45	29	25	21	16	14	12	10	9
-37.5	23	21	19	16	15	13	12	11	9	8
-42.5	14	14	13	12	12	11	10	9	8	7
-47.5	11	11	11	10	10	9	9	8	7	7
-55.0	9	8	8	8	8	8	7	7	6	5
-65.0	6	6	6	5	5	5	5	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

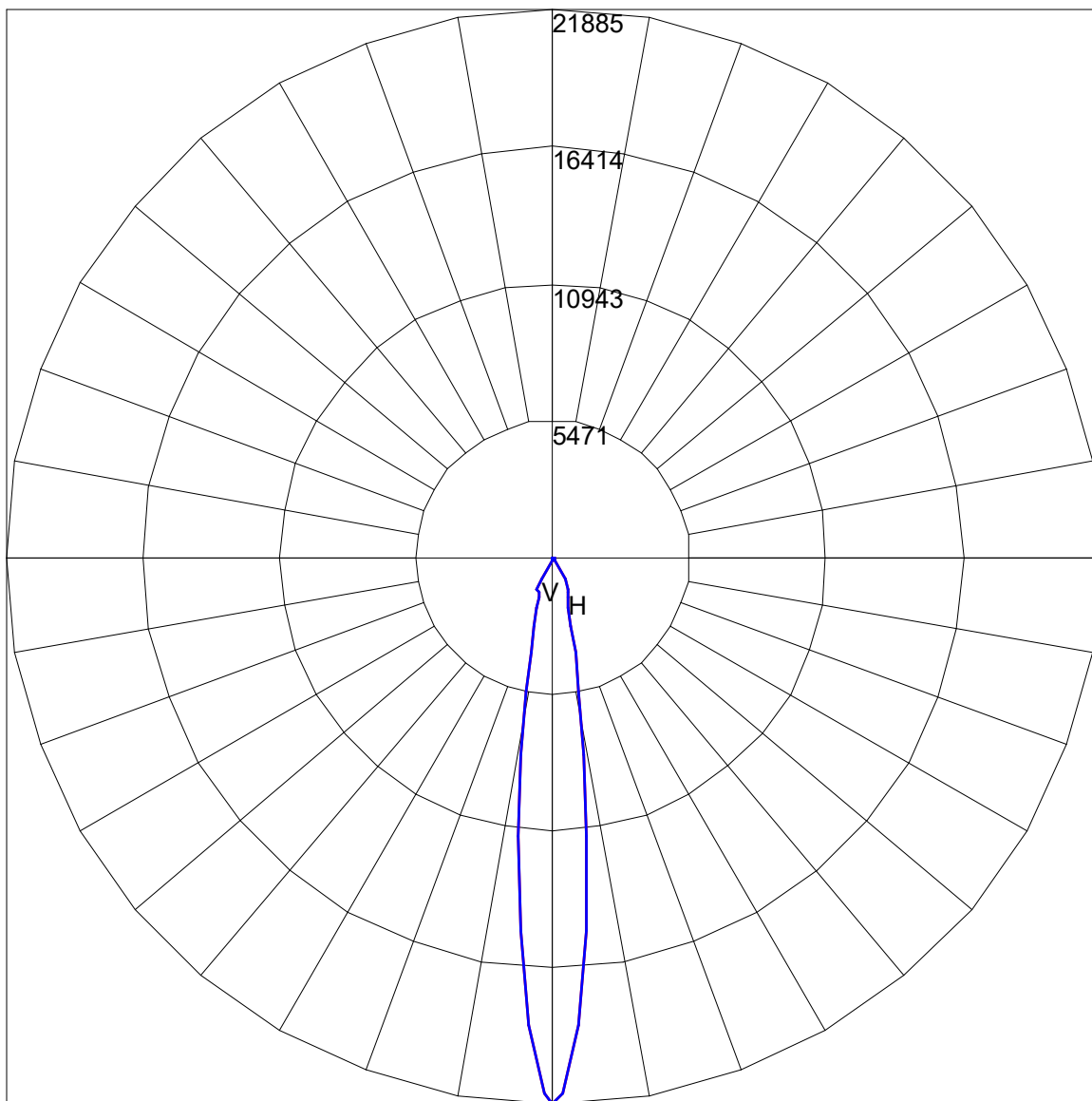
Vert. Angles	Horizontal Angles				
	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>	<u>85.0</u>	<u>90.0</u>
90.0	0	0	0	0	0
85.0	0	0	0	0	0
75.0	1	0	0	0	0
65.0	3	2	0	0	0
55.0	4	3	1	0	0
47.5	5	3	2	0	0
42.5	6	4	2	0	0
37.5	7	4	2	0	0
33.0	7	5	2	0	0
29.0	8	5	2	0	0
25.5	8	5	3	0	0
22.5	8	5	3	0	0
19.5	8	6	3	0	0
17.0	8	6	3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

IES FLOOD REPORT
PHOTOMETRIC FILENAME : L032511501.IES

CANDELA TABULATION - (Cont.)

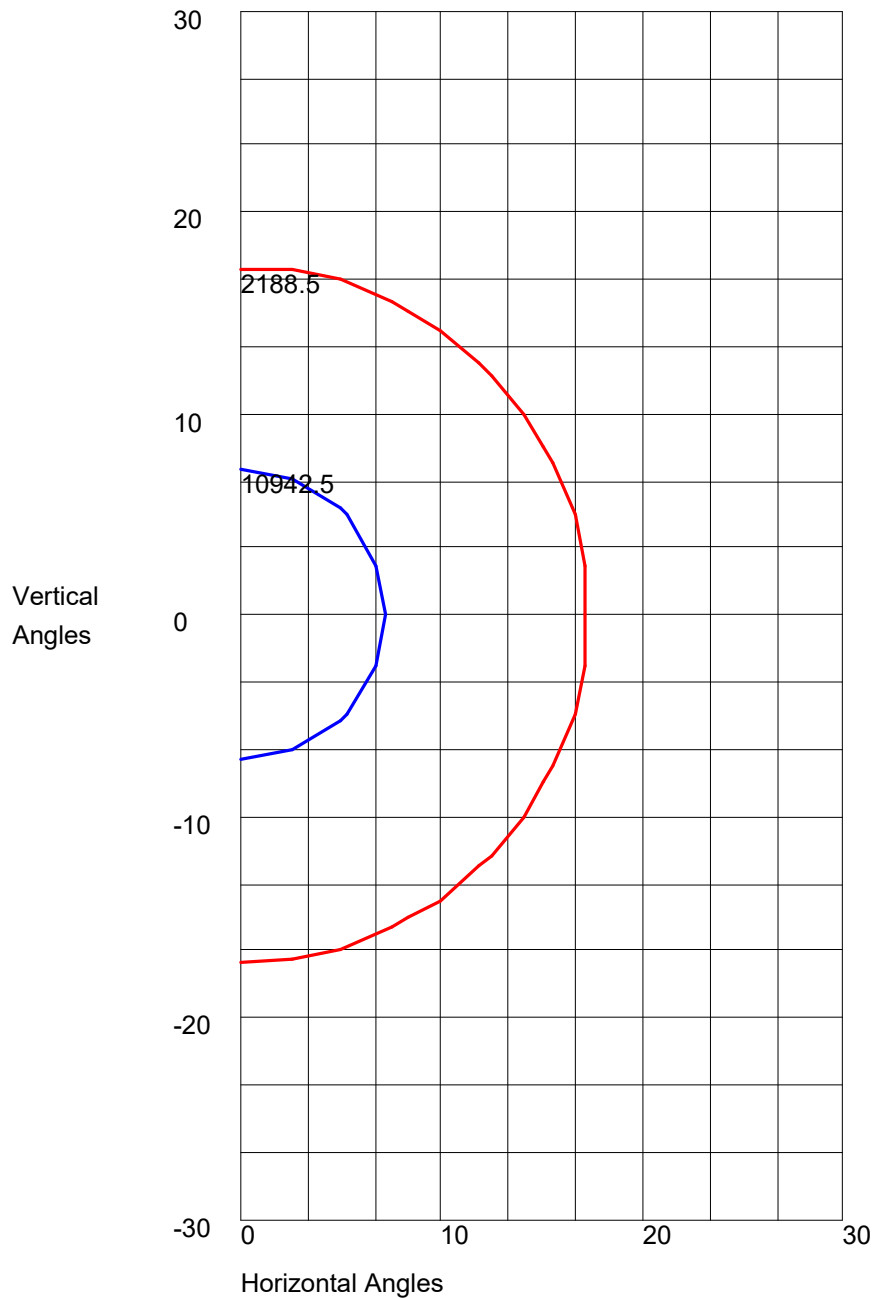
7.0	9	6	3	0	0
5.0	9	6	3	0	0
3.0	9	6	3	0	0
1.0	9	6	3	0	0
0.0	9	6	3	0	0
-1.0	9	6	3	0	0
-3.0	9	6	3	0	0
-5.0	9	6	3	0	0
-7.0	9	6	3	0	0
-9.0	9	6	3	0	0
-11.0	9	6	3	0	0
-13.0	9	6	3	0	0
-15.0	9	6	3	0	0
-17.0	8	6	3	0	0
-19.5	8	6	3	0	0
-22.5	8	5	3	0	0
-25.5	8	5	3	0	0
-29.0	8	5	2	0	0
-33.0	7	5	2	0	0
-37.5	7	4	2	0	0
-42.5	6	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 = 21885 Located At Horizontal Angle = 0, Vertical Angle = 0
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 21885 Located At Horizontal Angle = 0, Vertical Angle = 0
50% Maximum Candela = 10942.5
10% Maximum Candela = 2188.5