



8165 E Kaiser Blvd. Anaheim, CA 92808
p. 714.282.2270
f. 714.676.5558

Report No: L041502001R02

Date: 6/19/2015



NVLAP LAB CODE 200927-0

Report No: L041502001R02

Report Prepared For: Prudential Ltg.
1774 E. 21st Street, Los Angeles, CA 90058

Model Number: MW-LED35-SO-D1

Test: Electrical and Photometric tests

Standards Used: Appropriate part or all test guidelines were used for test performed:
IESNA LM79: 2008 Approved Methods for Electrical and Photometric Measurements of Solid-State Lighting Products
ANSI NEMA ANSLG C78.377: 2008 Specification of the Chromaticity of Solid State Lighting Products
ANSI C82.77:2002: Harmonic Emission Limits-Related Quality Requirements for Lighting Equipment

Description of Sample: Client submitted the sample. Catalog number is MW-LED35-SO-D1. Received in working and undamaged condition. No modifications were necessary.

Testing Condition: Fixture is tested with no special conditions.

Sample Arrival Date: 4/9/15

Date of Tests: 4/10/15 - 4/15/15

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-S1	11/10/15
Xitron Power Analysis System	2503AH	MT-EL01	10/20/15
BK Precision DC Power Supply	1747	PSDC-04	01/08/16
Fluke Digital Thermometer	52k/J	MT-TP02-GC	01/05/16
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

*All Results in accordance to IESNA LM-79-2008: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting.

Test Summary

Manufacturer:	Prudential Ltg.
Model Number:	MW-LED35-SO-D1
Driver Model Number:	OSRAM OPTOTRONIC OT50W/PRG1400C/UNV/DIM/L
Total Lumens:	3499.21
Input Voltage (VAC/60Hz):	120.00
Input Current (Amp):	0.30
Input Power (W):	36.29
Input Power Factor:	0.99
Current ATHD @ 120V(%):	8%
Current ATHD @ 277V(%):	N/A
Efficacy:	96
Ambient Temperature (°C):	25.0
Stabilization Time (Hours):	0:35
Total Operating Time (Hours):	2:05
Off State Power(W):	0.00

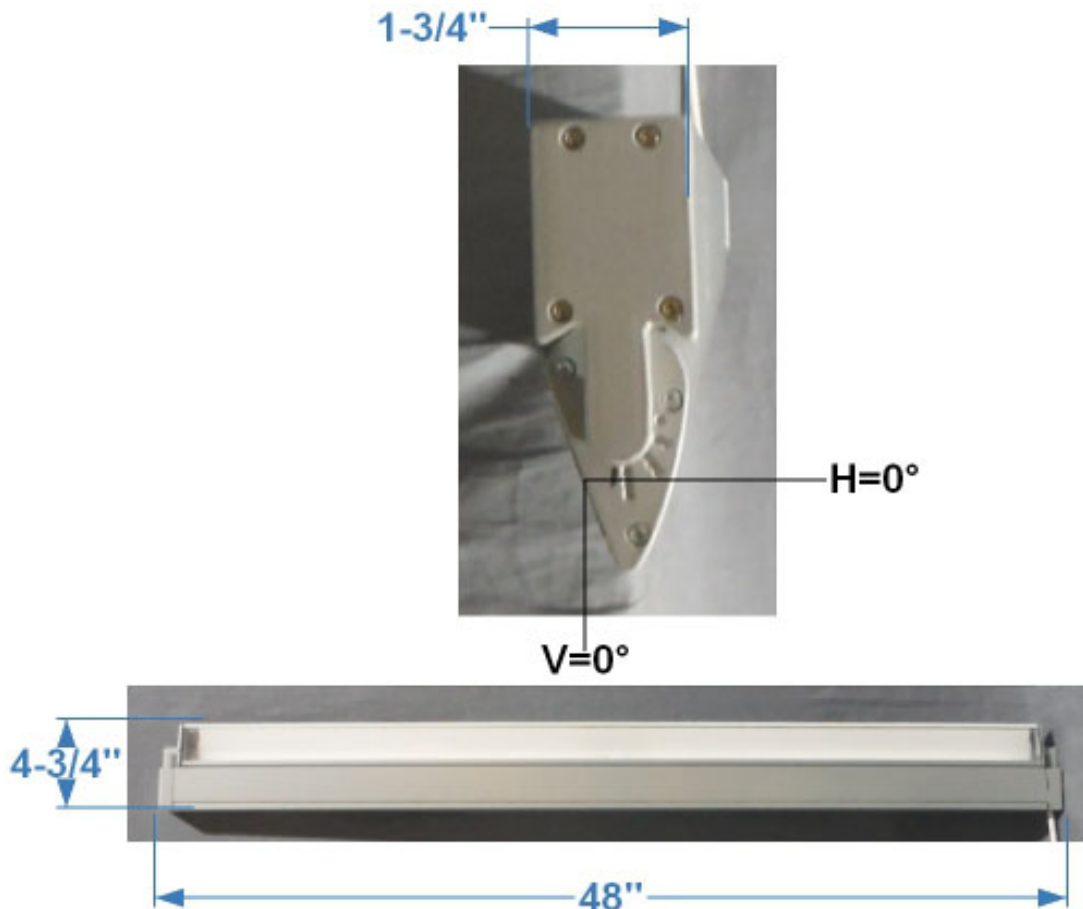


FIG.1 LUMINAIRE



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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:

This report must not be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST or any agency of Federal Government.

Report Prepared by : Keyur Patel

Test Report Released by:

Jeff Ahn
Engineering Manager

Test Report Reviewed by:

Steve Kang
Quality Assurance

**Attached are photometric data reports. Total number of pages: 13*

**All Results in accordance to IESNA LM-79-2008: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting.*



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Photometric Test Report

IES INDOOR REPORT

PHOTOMETRIC FILENAME : L041502001R02.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L041502001R02
[TESTLAB] LIGHT LABORATORY, INC.
[ISSUEDATE] 6/19/2015
[MANUFAC] PRUDENTIAL LTG.
[LUMCAT] MW-LED35-SO-D1
[LUMINAIRE] 1-3/4"L. x 48W. X 4-3/4"H. LED FIXTURE
[MORE] LINEAR PRISMATIC LENS
[BALLASTCAT] OSRAM OPTOTRONIC OT50W/PRG1400C/UNV/DIM/L
[BALLAST] INPUT: 120-277VAC, 0.52-0.24A, 50/60Hz OUTPUT: 10-55VDC, 50W, 400-1400mA
[LAMPPOSITION] 0,0
[LAMPCAT] N/A
[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
[INPUT] 120VAC, 36.29W
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3499
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	36.29
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	0.28
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.81 ft
Luminous Width (90-270)	0.17 ft
Luminous Height	0.08 ft

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L041502001R02.IES

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	47	9714
55	0	43	7278
65	0	44	4314
75	0	20	1970
85	0	3	445

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L041502001R02.IES

CANDELA TABULATION

	0	5	10	15	20	25	30	35	40	45
0.0	975.66	975.66	975.66	975.66	975.66	975.66	975.66	975.66	975.66	975.66
2.5	796.49	796.99	798.85	802.05	806.58	812.39	819.45	827.69	837.05	847.46
5.0	617.31	618.35	622.12	628.58	637.69	649.36	663.51	680.02	698.78	719.62
7.5	513.37	514.15	517.31	522.82	530.62	540.65	552.83	567.05	583.21	600.75
10.0	409.42	410.58	414.92	422.39	432.92	446.41	462.78	480.94	501.73	524.90
12.5	344.04	344.82	348.11	353.88	362.07	372.27	384.10	398.06	420.95	449.99
15.0	278.66	279.68	283.74	290.78	300.54	312.28	326.67	343.59	362.86	383.64
17.5	232.73	233.45	236.68	242.39	249.65	258.98	272.24	289.53	311.15	335.23
20.0	186.80	187.70	191.49	197.87	206.13	217.02	230.17	244.79	261.58	287.81
22.5	150.30	150.96	154.26	159.48	166.72	176.42	189.54	206.23	225.30	245.39
25.0	113.80	114.53	118.21	123.74	131.91	142.11	154.38	169.11	188.47	210.83
27.5	79.18	79.99	83.82	89.41	97.97	107.95	121.65	136.97	154.64	177.17
30.0	44.56	45.55	49.64	56.06	65.04	76.18	89.26	105.08	124.34	145.41
32.5	23.91	24.57	27.05	30.76	34.76	45.20	58.84	75.26	93.61	116.59
35.0	3.26	4.38	7.80	12.92	18.52	23.68	29.05	45.76	64.85	87.30
37.5	3.00	2.95	2.96	2.98	3.59	10.61	15.36	16.82	37.67	59.16
40.0	2.74	2.75	2.79	2.83	2.80	2.73	6.36	8.30	12.59	35.56
42.5	1.37	1.48	1.80	2.34	2.68	2.65	2.71	4.08	3.41	16.61
45.0	0.00	0.12	0.47	1.05	1.75	2.57	2.61	2.57	2.80	2.72
47.5	0.00	0.00	0.00	0.00	0.59	1.58	2.52	2.48	2.44	2.50
50.0	0.00	0.00	0.00	0.00	0.00	0.52	1.70	2.41	2.36	2.35
52.5	0.00	0.00	0.00	0.00	0.00	0.00	0.78	2.12	2.31	2.27
55.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.33	2.27	2.22
57.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.59	2.12	2.14
60.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.50	2.08
62.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93	2.01
65.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41	1.97
67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.66
70.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.29
72.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.98
75.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.73
77.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51
80.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33
82.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08
87.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10
100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.48
105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24
110.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.76	3.05
115.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.82	4.27	4.17
120.0	0.00	0.00	0.00	0.00	0.00	0.00	1.46	4.71	4.80	4.71
125.0	0.00	0.00	0.00	0.00	0.00	2.34	5.25	5.37	5.32	5.27
130.0	0.00	0.34	1.34	2.85	4.79	5.95	5.93	5.92	5.86	5.73
135.0	6.68	6.63	6.69	6.56	6.55	6.55	6.47	6.41	6.29	6.15
140.0	7.20	7.22	7.20	7.15	7.10	7.08	6.95	6.83	6.70	6.44
145.0	7.71	7.66	7.63	7.60	7.52	7.40	7.24	7.05	6.86	6.62
150.0	7.88	7.88	7.85	7.77	7.64	7.49	7.33	7.16	6.96	6.74
155.0	7.71	7.71	7.69	7.60	7.49	7.37	7.25	7.12	6.94	6.74
160.0	7.54	7.50	7.45	7.39	7.29	7.18	7.08	6.97	6.85	6.68
165.0	7.03	7.02	7.01	6.98	6.93	6.85	6.75	6.64	6.52	6.39
170.0	6.51	6.50	6.49	6.46	6.43	6.38	6.33	6.24	6.15	6.06
175.0	5.83	5.83	5.83	5.84	5.84	5.84	5.85	5.85	5.86	5.86

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L041502001R02.IES

CANDELA TABULATION - (Cont.)

180.0	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
Vert. Angles	Horizontal Angles									
	50	55	60	65	70	75	80	85	90	95
0.0	975.66	975.66	975.66	975.66	975.66	975.66	975.66	975.66	975.66	975.66
2.5	858.85	871.13	884.19	897.95	912.30	927.12	942.32	957.76	973.35	997.68
5.0	742.40	766.94	793.05	820.53	849.18	878.78	909.11	939.94	971.03	1019.50
7.5	625.41	661.57	700.07	740.60	782.88	826.61	871.47	917.15	963.32	1035.42
10.0	550.27	577.65	607.40	661.14	717.13	774.98	834.28	894.62	955.61	1050.79
12.5	481.71	515.53	551.13	588.68	650.17	721.27	794.18	868.47	943.66	1060.97
15.0	412.57	452.53	494.99	539.65	589.39	668.30	754.72	842.69	931.70	1070.31
17.5	361.58	390.98	439.86	490.61	543.56	613.82	712.45	812.89	914.65	1073.45
20.0	317.32	348.48	383.86	441.22	500.90	565.64	671.02	783.59	897.60	1075.50
22.5	272.82	307.66	344.55	392.64	457.97	525.54	627.85	751.15	876.14	1070.91
25.0	235.17	267.53	306.88	347.81	415.03	488.77	585.76	719.34	854.67	1064.86
27.5	203.03	230.71	270.77	314.66	373.47	452.32	543.30	685.45	829.48	1052.75
30.0	171.78	201.52	235.58	282.64	333.85	417.09	502.29	652.35	804.28	1039.17
32.5	141.43	172.09	204.87	251.47	302.46	380.88	468.74	616.17	774.55	1026.30
35.0	113.62	143.76	177.47	218.75	271.85	344.80	436.14	580.77	744.81	1011.52
37.5	85.99	115.36	150.07	187.66	241.92	308.71	402.15	543.54	712.47	990.03
40.0	58.09	89.08	123.08	160.87	212.05	273.32	368.78	507.08	680.12	965.71
42.5	35.75	63.39	96.38	135.46	183.40	241.09	333.41	467.04	644.26	930.52
45.0	20.33	39.13	72.02	110.38	155.62	212.10	298.95	427.55	608.39	892.00
47.5	9.66	16.49	49.23	86.24	129.08	184.88	267.73	390.47	565.42	836.24
50.0	3.51	6.03	29.38	62.74	104.12	158.36	237.71	354.87	522.45	776.68
52.5	2.23	3.02	15.63	40.31	81.42	132.16	205.51	314.13	471.42	701.39
55.0	2.14	2.23	6.54	21.56	59.34	106.58	173.92	274.46	420.39	621.96
57.5	2.05	2.01	2.14	8.52	39.72	83.15	144.82	236.11	368.42	539.26
60.0	1.99	1.90	1.85	4.46	24.65	61.26	117.28	199.02	316.45	454.82
62.5	1.95	1.85	1.77	1.71	13.22	41.78	92.49	165.17	268.55	386.81
65.0	1.92	1.81	1.71	1.64	6.06	23.98	69.08	132.38	220.65	317.64
67.5	1.89	1.75	1.64	1.58	2.58	13.12	49.34	107.43	180.81	265.41
70.0	1.85	1.72	1.60	1.51	1.71	6.33	30.62	83.47	140.96	213.14
72.5	1.85	1.74	1.58	1.45	1.38	3.01	16.88	60.05	112.81	174.15
75.0	1.86	1.72	1.55	1.44	1.30	1.35	4.49	36.90	84.66	135.17
77.5	1.85	1.68	1.53	1.42	1.24	1.08	2.11	22.82	62.86	109.72
80.0	1.86	1.69	1.53	1.37	1.20	1.03	1.20	9.17	41.05	85.21
82.5	1.88	1.71	1.55	1.39	1.23	1.06	0.97	4.87	27.98	64.88
85.0	1.94	1.78	1.61	1.45	1.28	1.10	0.86	0.85	14.91	44.62
87.5	2.00	1.83	1.66	1.50	1.33	1.15	0.94	0.82	7.80	31.79
90.0	2.06	1.89	1.71	1.54	1.37	1.20	1.03	0.86	0.69	19.02
95.0	2.33	2.13	1.94	1.74	1.56	1.38	1.29	1.11	0.86	6.86
100.0	2.70	2.50	2.34	2.11	1.92	1.72	1.54	1.29	1.11	1.89
105.0	3.09	2.93	2.79	2.49	2.26	1.99	1.80	1.53	1.37	2.37
110.0	3.55	3.42	3.22	2.91	2.62	2.39	2.11	1.79	1.63	2.80
115.0	4.11	3.93	3.67	3.36	3.02	2.70	2.38	2.13	2.06	3.37
120.0	4.57	4.38	4.05	3.79	3.43	3.06	2.76	2.47	2.31	3.89
125.0	5.09	4.83	4.48	4.18	3.81	3.43	3.07	2.82	2.74	4.58
130.0	5.52	5.24	4.85	4.48	4.11	3.72	3.39	3.16	3.09	5.20
135.0	5.86	5.56	5.19	4.82	4.47	4.09	3.78	3.61	3.60	5.88
140.0	6.16	5.87	5.55	5.22	4.85	4.51	4.19	4.07	4.11	6.62
145.0	6.38	6.11	5.79	5.48	5.15	4.83	4.55	4.47	4.46	7.46
150.0	6.50	6.26	5.98	5.68	5.40	5.11	4.83	4.84	4.88	8.23
155.0	6.52	6.28	6.04	5.79	5.55	5.31	5.17	5.19	5.23	8.34
160.0	6.50	6.28	6.07	5.84	5.63	5.42	5.46	5.51	5.57	8.21

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L041502001R02.IES

CANDELA TABULATION - (Cont.)

165.0	6.26	6.11	5.95	5.79	5.60	5.61	5.62	5.64	5.66	7.87
170.0	5.96	5.86	5.76	5.78	5.80	5.83	5.85	5.88	5.91	7.43
175.0	5.87	5.87	5.88	5.88	5.89	5.89	5.90	5.90	5.91	6.70
180.0	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00

Vert. Angles	Horizontal Angles									
	100	105	110	115	120	125	130	135	140	145
0.0	975.66	975.66	975.66	975.66	975.66	975.66	975.66	975.66	975.66	975.66
2.5	1021.85	1045.67	1068.96	1091.55	1113.27	1133.95	1153.43	1171.57	1188.24	1203.29
5.0	1067.65	1115.12	1161.55	1206.60	1250.20	1301.89	1350.93	1396.60	1438.55	1476.46
7.5	1107.19	1178.13	1249.48	1335.02	1417.53	1496.40	1571.02	1643.01	1710.19	1770.01
10.0	1145.56	1241.54	1358.18	1471.71	1583.98	1691.53	1796.03	1893.86	1977.69	2035.62
12.5	1178.03	1315.10	1460.07	1603.91	1749.26	1888.72	1997.67	2083.49	2163.02	2222.02
15.0	1210.89	1385.14	1557.65	1737.07	1920.34	2031.22	2143.27	2214.59	2256.01	2291.78
17.5	1246.51	1447.09	1654.88	1864.38	2017.64	2162.09	2213.95	2266.04	2281.89	2290.42
20.0	1279.18	1505.07	1745.85	1948.77	2114.41	2190.02	2246.83	2254.11	2257.42	2244.24
22.5	1303.77	1560.53	1827.88	2021.96	2143.18	2208.25	2214.37	2206.72	2190.71	2157.02
25.0	1325.01	1610.33	1872.06	2066.30	2149.26	2166.90	2155.03	2120.93	2071.30	2029.63
27.5	1338.74	1651.58	1908.93	2060.16	2110.16	2098.10	2050.07	1990.75	1925.83	1863.20
30.0	1351.12	1694.93	1934.45	2037.60	2035.47	1986.48	1910.24	1833.34	1763.30	1708.17
32.5	1353.34	1688.71	1908.58	1973.97	1925.72	1844.40	1753.90	1669.50	1615.63	1580.39
35.0	1352.31	1678.42	1852.57	1859.02	1784.34	1689.05	1596.93	1535.55	1496.90	1471.65
37.5	1336.95	1648.50	1776.20	1732.91	1628.21	1531.27	1460.48	1420.29	1395.59	1382.15
40.0	1313.12	1601.18	1660.21	1576.59	1472.00	1392.91	1344.68	1322.31	1307.67	1304.47
42.5	1268.43	1522.62	1514.62	1417.28	1322.64	1268.24	1243.66	1225.82	1220.59	1218.34
45.0	1212.31	1396.20	1359.72	1261.34	1194.33	1158.55	1139.70	1133.00	1132.98	1138.88
47.5	1127.14	1253.29	1206.54	1122.46	1079.44	1054.02	1046.35	1049.67	1058.86	1073.79
50.0	1023.14	1103.83	1053.70	999.60	973.39	962.13	967.65	975.83	996.26	1019.20
52.5	904.32	964.04	918.55	885.02	877.85	880.33	897.18	915.37	938.60	965.52
55.0	782.26	830.57	806.61	788.84	794.88	807.65	832.68	857.68	886.16	917.12
57.5	674.37	714.13	705.10	702.37	721.27	744.73	772.59	804.26	837.06	867.25
60.0	567.96	609.09	619.01	631.94	655.44	684.65	717.66	754.16	786.01	816.08
62.5	475.92	523.08	542.43	564.16	595.29	629.95	666.94	702.12	735.93	766.06
65.0	386.18	446.98	477.22	505.68	540.36	578.02	616.74	651.78	685.41	713.98
67.5	329.87	385.20	418.17	449.12	488.74	530.54	567.75	602.50	636.47	664.03
70.0	278.51	329.48	363.58	397.51	444.12	485.34	520.32	558.49	591.90	621.57
72.5	234.13	282.66	317.92	354.04	401.39	442.64	480.75	517.49	549.60	581.83
75.0	190.17	238.70	281.49	321.90	363.82	405.58	443.48	480.36	513.00	544.26
77.5	158.27	205.21	249.54	290.42	327.53	371.51	410.42	446.60	479.77	510.26
80.0	127.28	173.99	219.12	261.81	301.16	343.25	380.38	415.54	449.27	481.35
82.5	107.27	150.57	195.08	237.28	277.07	316.75	353.02	389.30	424.54	455.76
85.0	86.58	128.64	173.46	214.83	254.83	295.00	333.19	367.46	401.95	432.36
87.5	69.83	111.00	154.45	196.25	236.34	275.92	313.83	347.42	381.28	411.18
90.0	53.21	93.74	135.99	177.72	218.34	257.41	294.26	327.68	361.10	391.26
95.0	32.82	68.04	106.79	146.61	185.74	222.67	258.54	291.84	322.89	350.37
100.0	17.17	46.68	83.19	119.01	156.52	192.05	226.48	256.70	287.11	313.70
105.0	5.46	28.97	60.05	94.43	128.22	162.36	194.07	222.90	250.53	274.71
110.0	3.45	13.79	39.85	70.60	101.96	134.32	164.31	192.12	217.22	240.22
115.0	3.83	5.59	20.91	47.87	76.91	105.35	134.30	160.79	183.82	205.04
120.0	4.32	4.63	7.39	25.55	51.57	78.09	104.21	128.36	150.02	169.98
125.0	4.80	4.97	5.27	8.98	25.66	49.31	73.32	93.71	113.83	131.68
130.0	5.29	5.44	5.64	5.88	8.06	21.86	41.48	61.48	79.75	95.84
135.0	5.96	6.01	6.08	6.24	6.43	8.34	16.15	29.10	45.68	60.80
140.0	6.61	6.56	6.58	6.64	6.77	6.89	7.05	10.10	17.07	27.40
145.0	7.38	7.25	7.12	7.13	7.16	7.21	7.30	7.42	7.60	9.22

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CANDELA TABULATION - (Cont.)

150.0	8.11	8.00	7.83	7.65	7.63	7.58	7.61	7.66	7.69	7.78
155.0	8.83	8.73	8.57	8.37	8.18	8.13	8.08	7.98	8.01	8.05
160.0	9.42	9.38	9.21	9.05	8.86	8.71	8.60	8.53	8.47	8.41
165.0	9.95	9.88	9.81	9.71	9.61	9.45	9.31	9.18	9.06	8.94
170.0	8.93	10.28	10.21	10.15	10.10	10.04	9.98	9.92	9.86	9.78
175.0	7.48	8.26	9.02	9.76	10.47	10.45	10.43	10.41	10.39	10.37
180.0	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00

Vert. Horizontal Angles
Angles

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0.0	975.66	975.66	975.66	975.66	975.66	975.66	975.66
2.5	1216.63	1228.13	1237.73	1254.87	1255.14	1255.41	1255.69
5.0	1510.04	1539.03	1563.19	1582.34	1607.06	1607.72	1608.39
7.5	1823.00	1868.74	1906.85	1937.05	1959.09	1977.04	1978.05
10.0	2087.68	2130.30	2166.02	2194.48	2215.42	2232.60	2234.09
12.5	2249.04	2273.00	2291.61	2305.71	2316.35	2325.25	2326.98
15.0	2306.29	2311.25	2316.86	2319.44	2321.37	2323.41	2325.61
17.5	2294.67	2286.45	2281.96	2279.74	2276.04	2273.91	2277.28
20.0	2237.87	2216.68	2195.76	2183.67	2172.57	2163.21	2167.94
22.5	2123.19	2095.46	2060.03	2036.48	2019.86	2002.71	2008.73
25.0	1974.16	1932.85	1900.12	1873.00	1856.66	1843.20	1843.18
27.5	1817.00	1772.52	1748.83	1724.11	1710.81	1698.01	1697.16
30.0	1669.12	1639.72	1619.27	1607.74	1599.74	1592.75	1593.13
32.5	1549.68	1538.93	1524.82	1522.95	1518.84	1515.99	1517.04
35.0	1459.04	1456.24	1454.49	1454.71	1453.69	1454.47	1455.69
37.5	1384.13	1382.73	1385.20	1382.97	1382.69	1384.28	1386.11
40.0	1302.08	1304.03	1303.77	1306.74	1309.09	1310.51	1310.70
42.5	1219.80	1222.93	1231.15	1238.31	1242.96	1245.12	1245.75
45.0	1146.75	1158.28	1172.25	1182.22	1189.91	1193.82	1194.51
47.5	1090.12	1107.98	1123.54	1136.18	1146.05	1151.21	1152.35
50.0	1039.90	1060.38	1077.75	1093.24	1103.85	1110.22	1112.76
52.5	990.77	1013.95	1032.25	1048.62	1060.16	1066.83	1068.55
55.0	942.92	965.56	984.33	1001.05	1011.98	1017.53	1019.70
57.5	891.61	913.80	931.64	948.77	960.77	966.88	969.49
60.0	840.86	862.37	882.05	897.53	909.35	916.39	919.27
62.5	789.48	809.56	830.27	846.75	858.87	866.21	869.06
65.0	737.12	758.63	781.06	797.70	809.08	815.84	818.85
67.5	690.19	713.52	734.59	750.41	760.83	772.87	777.25
70.0	650.36	671.19	691.86	707.07	720.58	732.33	735.65
72.5	610.15	632.64	651.66	669.36	681.93	692.40	694.04
75.0	570.79	595.40	614.93	633.85	645.12	652.42	652.44
77.5	535.46	560.20	582.54	600.30	610.94	621.46	626.43
80.0	506.70	530.55	551.07	571.03	583.08	594.71	600.43
82.5	481.09	505.92	524.88	542.42	558.16	568.51	574.42
85.0	457.96	483.11	501.77	519.38	531.12	544.06	548.41
87.5	436.42	462.30	480.60	498.63	508.63	518.67	524.00
90.0	416.84	442.41	460.40	478.40	488.00	497.60	499.60
95.0	375.35	400.01	418.36	435.03	444.47	451.11	452.27
100.0	336.76	359.59	376.85	390.95	402.55	404.74	405.57
105.0	296.66	316.45	331.01	346.23	355.98	358.71	358.87
110.0	260.76	276.63	291.52	304.39	311.21	316.23	317.23
115.0	223.73	239.68	253.15	262.49	269.37	274.32	275.58
120.0	186.76	201.29	213.06	222.00	228.40	232.33	233.42
125.0	147.45	160.93	171.76	180.55	186.57	190.27	191.26
130.0	108.76	120.96	131.14	139.28	145.14	148.34	149.27

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CANDELA TABULATION - (Cont.)

135.0	74.29	85.39	94.16	101.10	106.15	109.03	110.20
140.0	37.89	48.02	56.71	63.49	68.51	71.50	72.32
145.0	12.93	17.22	21.70	27.04	30.28	31.87	32.22
150.0	7.86	8.00	8.40	8.59	8.49	8.43	8.40
155.0	8.07	8.10	8.15	8.16	8.16	8.19	8.23
160.0	8.34	8.33	8.34	8.35	8.36	8.37	8.40
165.0	8.90	8.88	8.86	8.81	8.77	8.74	8.74
170.0	9.70	9.62	9.55	9.50	9.46	9.43	9.43
175.0	10.35	10.33	10.31	10.30	10.28	10.28	10.28
180.0	6.00	6.00	6.00	6.00	6.00	6.00	6.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	443.73	N.A.	12.70
0-30	934.57	N.A.	26.70
0-40	1458.31	N.A.	41.70
0-60	2354.39	N.A.	67.30
0-80	2912.72	N.A.	83.20
0-90	3097.72	N.A.	88.50
10-90	2993.15	N.A.	85.50
20-40	1014.58	N.A.	29.00
20-50	1501.02	N.A.	42.90
40-70	1214.66	N.A.	34.70
60-80	558.33	N.A.	16.00
70-80	239.75	N.A.	6.90
80-90	185.00	N.A.	5.30
90-110	251.85	N.A.	7.20
90-120	325.03	N.A.	9.30
90-130	368.00	N.A.	10.50
90-150	395.18	N.A.	11.30
90-180	401.49	N.A.	11.50
110-180	149.64	N.A.	4.30
0-180	3499.21	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	104.57
10-20	339.16
20-30	490.83
30-40	523.74
40-50	486.45
50-60	409.64
60-70	318.58
70-80	239.75
80-90	185.00
90-100	144.63
100-110	107.22
110-120	73.18
120-130	42.97
130-140	20.22
140-150	6.96
150-160	3.41
160-170	2.18
170-180	0.72

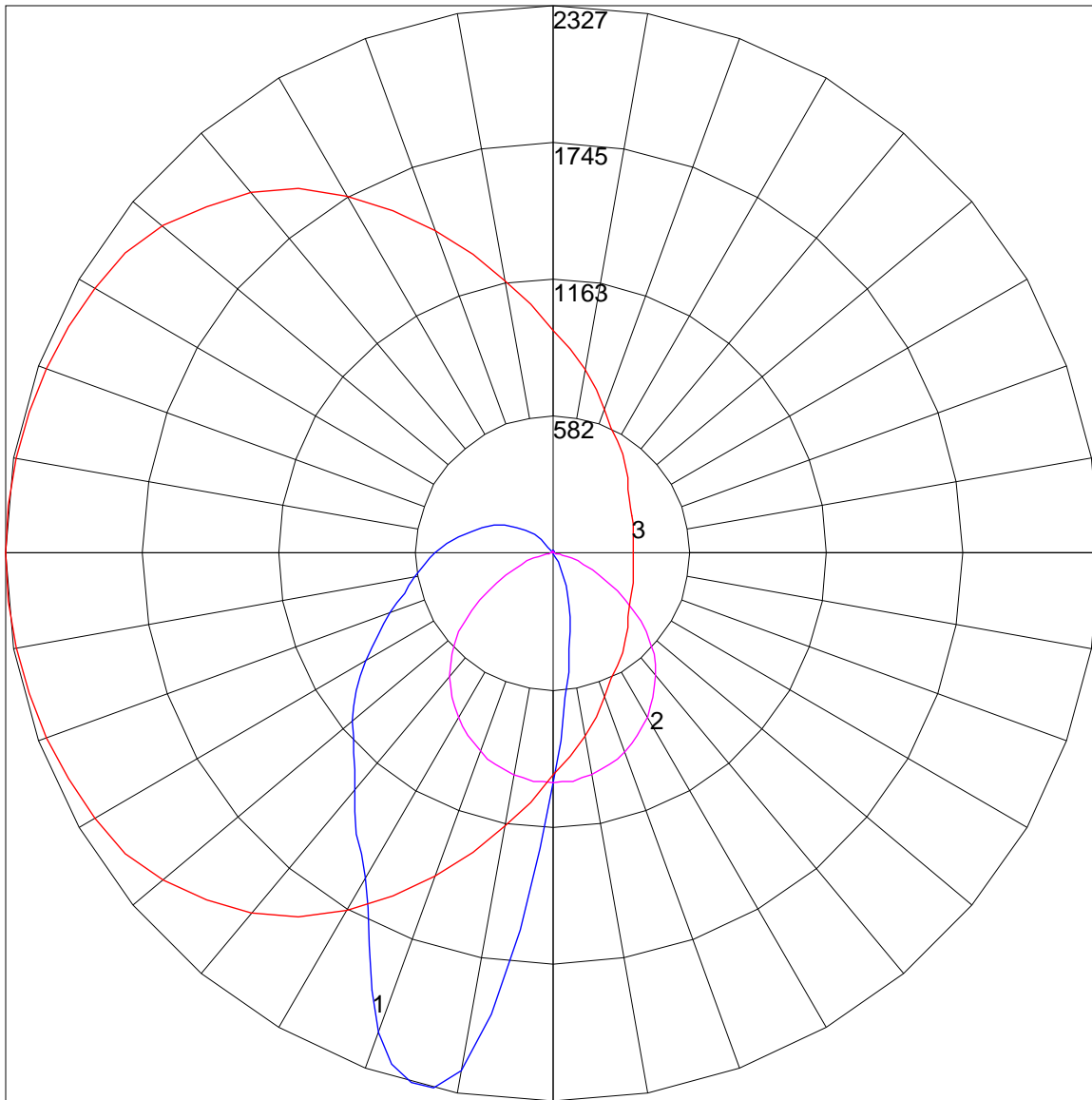
IES INDOOR REPORT
PHOTOMETRIC FILENAME : L041502001R02.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89
1	105	100	95	91	101	96	92	88	90	87	83	84	81	79	79	77	75	72
2	96	87	80	74	92	84	78	72	79	73	69	74	69	66	69	66	63	60
3	87	77	69	62	84	74	67	61	70	63	58	65	60	56	61	57	53	51
4	80	68	60	53	77	66	58	52	62	55	50	59	53	48	55	50	46	44
5	74	61	52	46	71	59	51	45	56	49	44	53	47	42	50	45	41	38
6	68	55	47	40	66	54	46	40	51	44	38	48	42	37	46	40	36	34
7	64	50	42	36	61	49	41	35	46	39	34	44	38	33	42	36	32	30
8	59	46	38	32	57	45	37	32	43	36	31	41	34	30	39	33	29	27
9	55	42	34	29	53	41	34	29	39	33	28	37	31	27	36	30	26	24
10	52	39	31	26	50	38	31	26	36	30	25	35	29	25	33	28	24	22

POLAR GRAPH



Maximum Candela = 2326.98 Located At Horizontal Angle = 180, Vertical Angle = 12.5
1 - Vertical Plane Through Horizontal Angles (180 - 0) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (90 - 270)
3 - Horizontal Cone Through Vertical Angle (12.5) (Through Max. Cd.)