



IES INDOOR REPORT
PHOTOMETRIC FILENAME : GA24-LED-HO-NW-P12.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-4080A
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]02/29/16
[TEST DATE]05/17/13
[MANUFACTURER]LSI INDUSTRIES, INC
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]SCALED FROM ORIGINAL TEST DATA
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Indoor
[LUMCAT]GA24-LED-HO-NW-P12

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6252
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	57
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	2.00 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2951	2865	2761
55	2373	2224	1987
65	1815	1468	1535
75	1597	1289	1699
85	2183	2111	2415

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	2523.00	2523.00	2523.00	2523.00	2523.00
2.5	2524.16	2535.76	2525.32	2514.88	2516.04
5.0	2520.68	2532.28	2517.20	2511.40	2514.88
7.5	2513.72	2524.16	2509.08	2499.80	2504.44
10.0	2496.32	2511.40	2494.00	2484.72	2491.68
12.5	2480.08	2489.36	2475.44	2467.32	2473.12
15.0	2459.20	2465.00	2452.24	2445.28	2452.24
17.5	2425.56	2434.84	2420.92	2415.12	2416.28
20.0	2397.72	2400.04	2387.28	2372.20	2376.84
22.5	2350.16	2357.12	2342.04	2326.96	2330.44
25.0	2297.96	2302.60	2287.52	2265.48	2268.96
27.5	2231.84	2246.92	2229.52	2205.16	2201.68
30.0	2169.20	2176.16	2155.28	2133.24	2133.24
32.5	2092.64	2096.12	2074.08	2053.20	2048.56
35.0	2003.32	2007.96	1983.60	1959.24	1958.08
37.5	1905.88	1904.72	1886.16	1857.16	1850.20
40.0	1798.00	1796.84	1772.48	1737.68	1734.20
42.5	1680.84	1672.72	1647.20	1608.92	1599.64
45.0	1552.08	1542.80	1506.84	1470.88	1452.32
47.5	1417.52	1403.60	1369.96	1329.36	1300.36
50.0	1278.32	1267.88	1233.08	1179.72	1135.64
52.5	1143.76	1132.16	1091.56	1023.12	970.92
55.0	1012.68	1001.08	948.88	879.28	847.96
57.5	893.20	868.84	806.20	759.80	733.12
60.0	778.36	747.04	673.96	644.96	633.36
62.5	665.84	632.20	561.44	545.20	549.84
65.0	570.72	528.96	461.68	466.32	482.56
67.5	486.04	440.80	382.80	403.68	433.84
70.0	411.80	370.04	319.00	356.12	390.92
72.5	354.96	316.68	276.08	316.68	359.60
75.0	307.40	274.92	248.24	287.68	327.12
77.5	267.96	241.28	227.36	258.68	292.32
80.0	232.00	208.80	205.32	229.68	254.04
82.5	190.24	175.16	174.00	196.04	208.80
85.0	141.52	136.88	136.88	156.60	156.60
87.5	91.64	87.00	87.00	105.56	109.04
90.0	31.32	45.24	45.24	56.84	59.16
92.5	5.80	18.56	16.24	29.00	26.68
95.0	1.16	8.12	10.44	15.08	8.12
97.5	5.80	5.80	11.60	13.92	12.76
100.0	1.16	10.44	9.28	11.60	10.44
102.5	9.28	12.76	8.12	11.60	5.80
105.0	9.28	6.96	6.96	6.96	5.80
107.5	13.92	8.12	3.48	5.80	9.28
110.0	9.28	5.80	8.12	8.12	17.40
112.5	11.60	15.08	12.76	17.40	12.76
115.0	16.24	4.64	11.60	10.44	12.76
117.5	4.64	8.12	15.08	11.60	5.80
120.0	11.60	10.44	13.92	5.80	6.96
122.5	18.56	12.76	12.76	12.76	18.56
125.0	12.76	6.96	9.28	5.80	8.12
127.5	9.28	10.44	4.64	13.92	1.16
130.0	3.48	11.60	9.28	9.28	5.80
132.5	5.80	12.76	9.28	10.44	4.64

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CANDELA TABULATION - (Cont.)

135.0	12.76	16.24	4.64	12.76	15.08
137.5	11.60	15.08	3.48	5.80	18.56
140.0	12.76	4.64	18.56	13.92	11.60
142.5	8.12	9.28	8.12	10.44	17.40
145.0	3.48	12.76	15.08	12.76	12.76
147.5	5.80	11.60	15.08	6.96	20.88
150.0	23.20	8.12	15.08	5.80	20.88
152.5	20.88	12.76	8.12	12.76	22.04
155.0	12.76	5.80	8.12	13.92	10.44
157.5	9.28	13.92	18.56	10.44	20.88
160.0	19.72	12.76	4.64	10.44	16.24
162.5	9.28	5.80	3.48	8.12	4.64
165.0	16.24	10.44	15.08	11.60	8.12
167.5	6.96	12.76	9.28	10.44	13.92
170.0	9.28	9.28	11.60	15.08	13.92
172.5	19.72	10.44	10.44	10.44	9.28
175.0	16.24	16.24	18.56	9.28	10.44
177.5	12.76	16.24	8.12	12.76	13.92
180.0	13.92	13.92	13.92	13.92	13.92

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	932.40	N.A.	14.90
0-30	1984.73	N.A.	31.70
0-40	3220.56	N.A.	51.50
0-60	5222.56	N.A.	83.50
0-80	6026.2	N.A.	96.40
0-90	6178.97	N.A.	98.80
10-90	5939.21	N.A.	95.00
20-40	2288.15	N.A.	36.60
20-50	3445.67	N.A.	55.10
40-70	2504.07	N.A.	40.10
60-80	803.64	N.A.	12.90
70-80	301.57	N.A.	4.80
80-90	152.78	N.A.	2.40
90-110	27.55	N.A.	0.40
90-120	38.49	N.A.	0.60
90-130	47.54	N.A.	0.80
90-150	62.89	N.A.	1.00
90-180	72.74	N.A.	1.20
110-180	45.18	N.A.	0.70
0-180	6251.71	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	239.76
10-20	692.64
20-30	1052.32
30-40	1235.83
40-50	1157.51
50-60	844.49
60-70	502.07
70-80	301.57
80-90	152.78
90-100	18.70
100-110	8.85
110-120	10.94
120-130	9.05
130-140	8.04
140-150	7.30
150-160	5.82
160-170	2.84
170-180	1.19

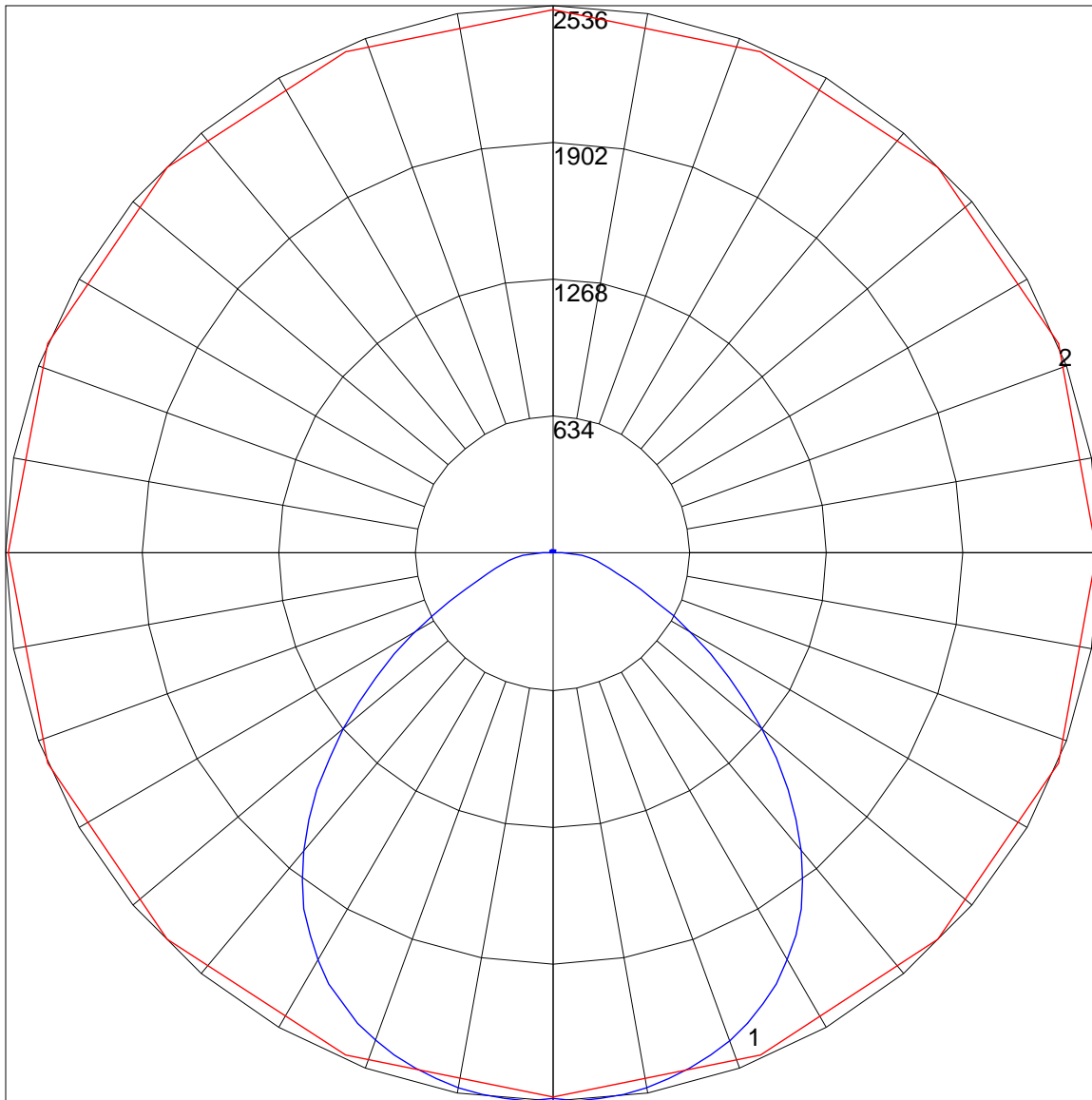
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	110	110	110	106	106	106	101	101	101	99
1	109	105	101	97	106	102	99	95	98	95	92	94	91	89	90	88	86	84
2	100	92	86	81	97	90	85	80	87	82	78	83	79	76	80	77	74	72
3	92	82	74	68	89	80	73	68	77	71	66	74	69	65	72	67	64	62
4	85	73	65	59	82	72	64	58	69	63	57	67	61	57	65	60	56	54
5	78	66	58	51	76	65	57	51	63	56	50	61	54	50	59	53	49	47
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42
7	67	54	46	40	66	54	46	40	52	45	40	50	44	39	49	43	39	37
8	63	50	42	36	61	49	41	36	48	41	36	46	40	35	45	39	35	33
9	59	46	38	33	57	45	38	33	44	37	32	43	37	32	42	36	32	30
10	55	42	35	30	54	42	35	30	41	34	29	40	34	29	39	33	29	27

POLAR GRAPH



Maximum Candela = 2535.76 Located At Horizontal Angle = 22.5, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)