



IES INDOOR REPORT

PHOTOMETRIC FILENAME : GA24-LED-HO-WW-P12.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-4174A
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]03/2/16
[TEST DATE]06/14/13
[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-WW-P12

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6369
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
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	3043	2959	2845
55	2460	2343	1990
65	1867	1557	1472
75	1500	1235	1536
85	1968	1932	2433

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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	2572.88	2572.88	2572.88	2572.88	2572.88
2.5	2579.84	2583.32	2572.88	2565.92	2564.76
5.0	2569.40	2582.16	2567.08	2558.96	2560.12
7.5	2562.44	2569.40	2558.96	2552.00	2554.32
10.0	2552.00	2558.96	2545.04	2536.92	2536.92
12.5	2532.28	2536.92	2527.64	2513.72	2516.04
15.0	2507.92	2514.88	2498.64	2487.04	2487.04
17.5	2477.76	2482.40	2467.32	2458.04	2454.56
20.0	2440.64	2445.28	2431.36	2415.12	2417.44
22.5	2401.20	2401.20	2386.12	2369.88	2368.72
25.0	2347.84	2347.84	2333.92	2316.52	2314.20
27.5	2288.68	2288.68	2271.28	2253.88	2252.72
30.0	2219.08	2217.92	2202.84	2183.12	2172.68
32.5	2144.84	2143.68	2127.44	2100.76	2092.64
35.0	2048.56	2052.04	2033.48	2007.96	2001.00
37.5	1955.76	1956.92	1933.72	1904.72	1898.92
40.0	1846.72	1844.40	1820.04	1787.56	1780.60
42.5	1728.40	1723.76	1692.44	1656.48	1643.72
45.0	1600.80	1593.84	1556.72	1514.96	1496.40
47.5	1465.08	1454.64	1419.84	1365.32	1335.16
50.0	1320.08	1317.76	1284.12	1209.88	1172.76
52.5	1184.36	1175.08	1143.76	1048.64	1002.24
55.0	1049.80	1037.04	999.92	893.20	849.12
57.5	918.72	902.48	852.60	755.16	721.52
60.0	798.08	771.40	719.20	641.48	618.28
62.5	685.56	653.08	597.40	554.48	530.12
65.0	586.96	546.36	489.52	476.76	462.84
67.5	493.00	458.20	401.36	416.44	406.00
70.0	414.12	383.96	332.92	368.88	361.92
72.5	346.84	322.48	278.40	325.96	327.12
75.0	288.84	274.92	237.80	290.00	295.80
77.5	243.60	234.32	209.96	256.36	271.44
80.0	206.48	196.04	185.60	222.72	238.96
82.5	169.36	157.76	157.76	189.08	204.16
85.0	127.60	120.64	125.28	150.80	157.76
87.5	81.20	78.88	82.36	102.08	103.24
90.0	33.64	35.96	40.60	51.04	48.72
92.5	10.44	10.44	10.44	12.76	12.76
95.0	9.28	9.28	8.12	8.12	8.12
97.5	9.28	9.28	8.12	9.28	9.28
100.0	9.28	6.96	8.12	9.28	9.28
102.5	8.12	8.12	8.12	8.12	8.12
105.0	6.96	9.28	9.28	9.28	9.28
107.5	8.12	9.28	9.28	8.12	9.28
110.0	8.12	9.28	9.28	8.12	9.28
112.5	10.44	9.28	9.28	9.28	9.28
115.0	9.28	8.12	8.12	9.28	8.12
117.5	8.12	9.28	9.28	8.12	8.12
120.0	9.28	9.28	9.28	9.28	9.28
122.5	9.28	9.28	9.28	9.28	10.44
125.0	8.12	9.28	8.12	9.28	9.28
127.5	8.12	9.28	10.44	9.28	9.28
130.0	10.44	9.28	9.28	9.28	9.28
132.5	8.12	9.28	10.44	10.44	9.28

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CANDELA TABULATION - (Cont.)

135.0	8.12	10.44	10.44	10.44	9.28
137.5	9.28	9.28	10.44	9.28	10.44
140.0	9.28	8.12	10.44	10.44	9.28
142.5	8.12	10.44	10.44	9.28	9.28
145.0	10.44	10.44	9.28	10.44	10.44
147.5	10.44	9.28	9.28	10.44	11.60
150.0	10.44	10.44	9.28	9.28	10.44
152.5	9.28	10.44	9.28	9.28	9.28
155.0	10.44	10.44	10.44	10.44	11.60
157.5	10.44	11.60	10.44	12.76	12.76
160.0	11.60	11.60	10.44	10.44	10.44
162.5	10.44	10.44	10.44	10.44	10.44
165.0	11.60	10.44	11.60	10.44	11.60
167.5	10.44	11.60	11.60	11.60	10.44
170.0	10.44	12.76	11.60	11.60	11.60
172.5	11.60	10.44	11.60	11.60	11.60
175.0	9.28	10.44	10.44	10.44	10.44
177.5	12.76	10.44	11.60	9.28	9.28
180.0	9.28	9.28	9.28	9.28	9.28

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	950.19	N.A.	14.90
0-30	2023.71	N.A.	31.80
0-40	3289.72	N.A.	51.60
0-60	5354.08	N.A.	84.10
0-80	6163.64	N.A.	96.80
0-90	6305.56	N.A.	99.00
10-90	6061.09	N.A.	95.20
20-40	2339.53	N.A.	36.70
20-50	3532.84	N.A.	55.50
40-70	2579.15	N.A.	40.50
60-80	809.56	N.A.	12.70
70-80	294.77	N.A.	4.60
80-90	141.91	N.A.	2.20
90-110	23.94	N.A.	0.40
90-120	32.81	N.A.	0.50
90-130	41.12	N.A.	0.60
90-150	54.87	N.A.	0.90
90-180	63.87	N.A.	1.00
110-180	39.93	N.A.	0.60
0-180	6369.42	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	244.47
10-20	705.72
20-30	1073.52
30-40	1266.01
40-50	1193.31
50-60	871.06
60-70	514.79
70-80	294.77
80-90	141.91
90-100	14.80
100-110	9.14
110-120	8.87
120-130	8.31
130-140	7.54
140-150	6.21
150-160	4.84
160-170	3.11
170-180	1.05

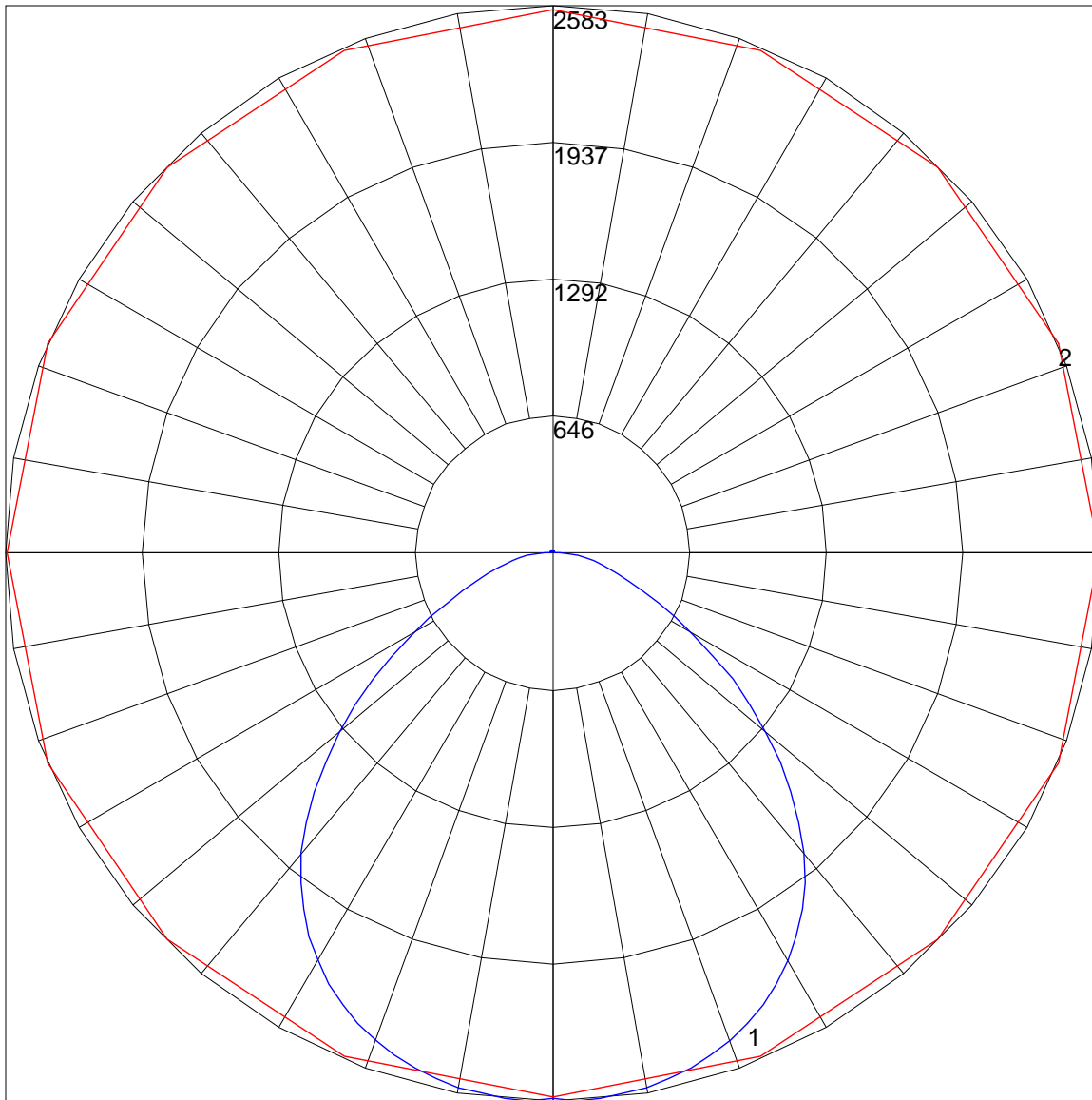
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	111	111	106	106	106	101	101	101	99
1	109	105	101	97	107	102	99	96	98	95	92	94	92	89	90	88	87	84
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	80	77	74	72
3	92	82	75	69	90	81	74	68	78	72	67	75	70	65	72	68	64	62
4	85	74	65	59	83	72	64	59	70	63	58	67	61	57	65	60	56	54
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	73	60	51	45	71	59	51	45	57	50	45	55	49	44	54	48	44	42
7	67	55	46	40	66	54	46	40	52	45	40	51	44	39	49	43	39	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	45	40	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 = 2583.32 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.)