



IES INDOOR REPORT
PHOTOMETRIC FILENAME : GA22-LED-SS-WW-P12.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-4172A
[TESTLAB]LSI INDUSTRIES, INC
[ISSUEDATE]03/2/16
[TESTDATE]06/14/13
[MANUFAC]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_SOURCE] LED
[_SEARCH_APPLICATION] Indoor
[LUMCAT]GA22-LED-SS-WW-P12

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3078
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	28
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	2.00 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	2823	2831	2854
55	2186	2159	1974
65	1638	1432	1424
75	1313	1157	1422
85	1753	1753	2290

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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	1320.08	1320.08	1320.08	1320.08	1320.08
2.5	1311.96	1317.76	1321.24	1323.56	1322.40
5.0	1308.48	1313.12	1318.92	1318.92	1318.92
7.5	1300.36	1307.32	1310.80	1313.12	1313.12
10.0	1289.92	1294.56	1300.36	1301.52	1301.52
12.5	1273.68	1281.80	1285.28	1294.56	1295.72
15.0	1255.12	1262.08	1271.36	1279.48	1276.00
17.5	1233.08	1240.04	1250.48	1259.76	1259.76
20.0	1209.88	1214.52	1227.28	1235.40	1237.72
22.5	1182.04	1187.84	1200.60	1208.72	1214.52
25.0	1151.88	1157.68	1165.80	1180.88	1187.84
27.5	1113.60	1124.04	1132.16	1149.56	1157.68
30.0	1075.32	1084.60	1092.72	1110.12	1115.92
32.5	1030.08	1038.20	1048.64	1064.88	1073.00
35.0	980.20	988.32	1002.24	1015.00	1023.12
37.5	926.84	934.96	946.56	957.00	967.44
40.0	870.00	876.96	885.08	893.20	902.48
42.5	807.36	814.32	816.64	821.28	828.24
45.0	742.40	747.04	744.72	745.88	750.52
47.5	671.64	675.12	673.96	668.16	669.32
50.0	602.04	605.52	603.20	588.12	583.48
52.5	531.28	534.76	531.28	506.92	497.64
55.0	466.32	467.48	460.52	431.52	421.08
57.5	409.48	404.84	393.24	368.88	361.92
60.0	353.80	344.52	329.44	313.20	307.40
62.5	303.92	290.00	273.76	265.64	261.00
65.0	257.52	242.44	225.04	227.36	223.88
67.5	218.08	201.84	184.44	196.04	194.88
70.0	182.12	169.36	150.80	171.68	170.52
72.5	151.96	141.52	124.12	151.96	151.96
75.0	126.44	121.80	111.36	133.40	136.88
77.5	109.04	104.40	98.60	116.00	122.96
80.0	95.12	91.64	88.16	106.72	112.52
82.5	77.72	74.24	74.24	92.80	98.60
85.0	56.84	55.68	56.84	71.92	74.24
87.5	34.80	34.80	34.80	45.24	44.08
90.0	15.08	15.08	12.76	13.92	10.44
92.5	3.48	3.48	2.32	1.16	2.32
95.0	2.32	2.32	1.16	2.32	2.32
97.5	1.16	2.32	1.16	1.16	1.16
100.0	2.32	2.32	2.32	1.16	2.32
102.5	2.32	2.32	2.32	2.32	2.32
105.0	2.32	2.32	2.32	2.32	2.32
107.5	2.32	2.32	2.32	2.32	2.32
110.0	2.32	2.32	2.32	2.32	2.32
112.5	2.32	2.32	2.32	2.32	2.32
115.0	2.32	2.32	2.32	2.32	2.32
117.5	2.32	2.32	2.32	2.32	2.32
120.0	2.32	2.32	2.32	2.32	2.32
122.5	2.32	2.32	2.32	2.32	2.32
125.0	2.32	2.32	2.32	2.32	2.32
127.5	2.32	2.32	2.32	2.32	2.32
130.0	2.32	2.32	2.32	2.32	2.32
132.5	2.32	2.32	2.32	2.32	2.32

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CANDELA TABULATION - (Cont.)

135.0	2.32	2.32	2.32	2.32	2.32
137.5	2.32	2.32	2.32	2.32	2.32
140.0	2.32	2.32	2.32	2.32	2.32
142.5	2.32	2.32	2.32	2.32	2.32
145.0	2.32	2.32	2.32	2.32	2.32
147.5	3.48	2.32	2.32	2.32	3.48
150.0	2.32	3.48	3.48	3.48	3.48
152.5	3.48	3.48	3.48	3.48	3.48
155.0	3.48	3.48	3.48	3.48	3.48
157.5	3.48	3.48	3.48	3.48	3.48
160.0	3.48	3.48	3.48	3.48	3.48
162.5	3.48	3.48	3.48	3.48	3.48
165.0	3.48	3.48	3.48	3.48	3.48
167.5	3.48	3.48	3.48	3.48	3.48
170.0	3.48	3.48	3.48	3.48	3.48
172.5	3.48	3.48	3.48	3.48	3.48
175.0	3.48	3.48	3.48	3.48	3.48
177.5	3.48	3.48	3.48	3.48	3.48
180.0	3.48	3.48	3.48	3.48	3.48

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	483.10	N.A.	15.70
0-30	1020.97	N.A.	33.20
0-40	1644.97	N.A.	53.40
0-60	2625.13	N.A.	85.30
0-80	2995.75	N.A.	97.30
0-90	3060.84	N.A.	99.50
10-90	2935.77	N.A.	95.40
20-40	1161.88	N.A.	37.80
20-50	1735.17	N.A.	56.40
40-70	1216.69	N.A.	39.50
60-80	370.62	N.A.	12.00
70-80	134.09	N.A.	4.40
80-90	65.09	N.A.	2.10
90-110	6.18	N.A.	0.20
90-120	8.48	N.A.	0.30
90-130	10.57	N.A.	0.30
90-150	13.93	N.A.	0.50
90-180	16.85	N.A.	0.50
110-180	10.67	N.A.	0.30
0-180	3077.7	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	125.08
10-20	358.02
20-30	537.88
30-40	624.00
40-50	573.30
50-60	406.86
60-70	236.53
70-80	134.09
80-90	65.09
90-100	3.77
100-110	2.42
110-120	2.30
120-130	2.08
130-140	1.80
140-150	1.57
150-160	1.60
160-170	0.99
170-180	0.33

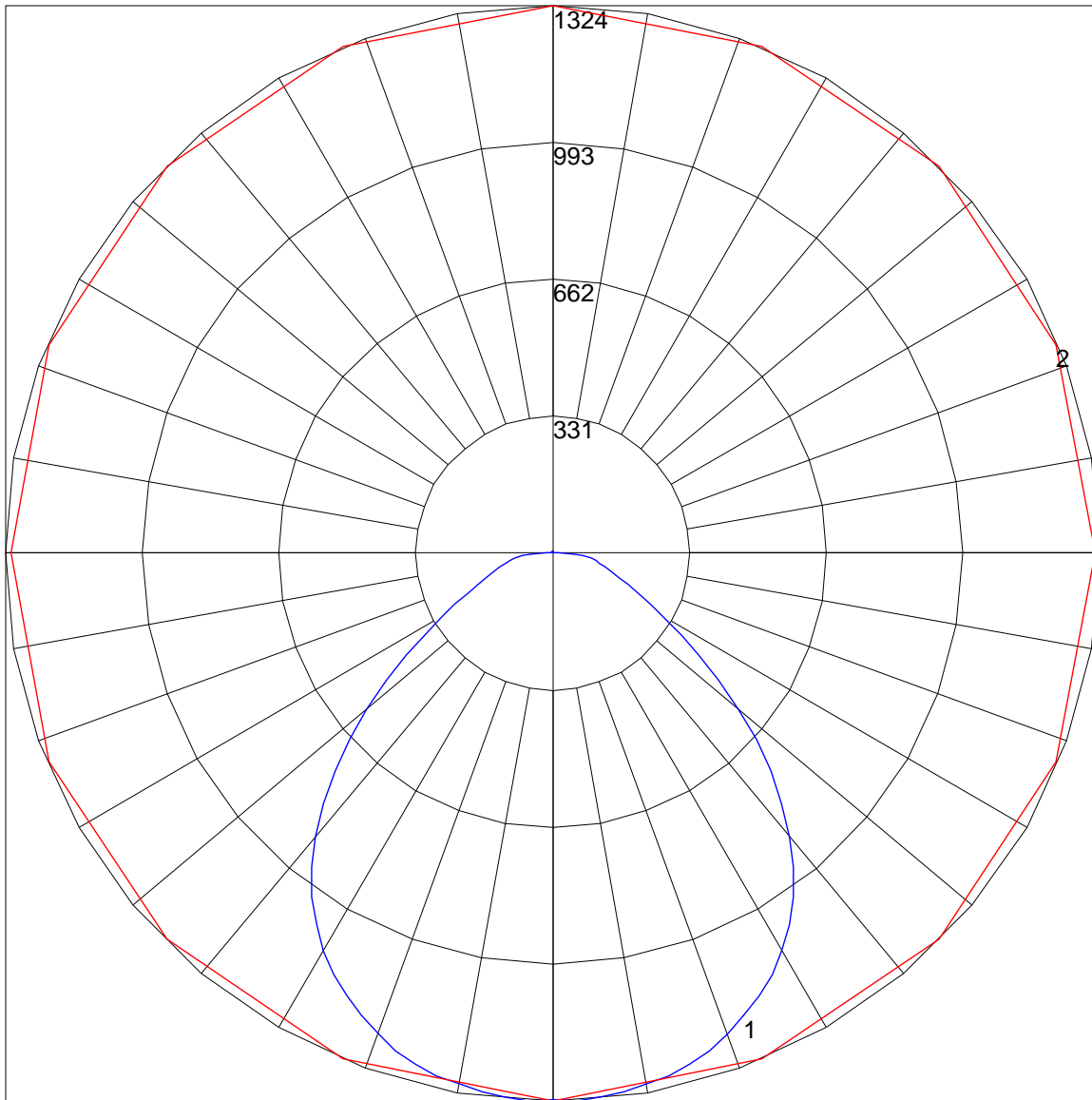
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	102	102	102	99
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	101	93	87	82	98	91	86	81	88	83	79	84	80	77	81	78	75	73
3	93	83	75	69	90	81	74	69	78	72	68	76	71	66	73	69	65	63
4	85	74	66	60	83	73	65	59	70	64	59	68	62	58	66	61	57	55
5	79	67	59	52	77	66	58	52	64	57	51	62	56	51	60	55	50	48
6	73	61	52	46	71	60	52	46	58	51	46	56	50	45	55	49	45	43
7	68	55	47	41	66	55	47	41	53	46	41	52	45	40	50	44	40	38
8	64	51	43	37	62	50	42	37	49	42	37	47	41	36	46	41	36	34
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	28

POLAR GRAPH



Maximum Candela = 1323.56 Located At Horizontal Angle = 67.5, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)