



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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-4181A
[TESTLAB]LSI INDUSTRIES, INC
[ISSUEDATE]03/2/16
[TESTDATE]06/17/13
[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-HO-WW-P12

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3593
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	35
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	3317	3317	3339
55	2583	2545	2327
65	1933	1690	1675
75	1542	1313	1675
85	2111	2111	2755

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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	1532.36	1532.36	1532.36	1532.36	1532.36
2.5	1524.24	1528.88	1535.84	1537.00	1537.00
5.0	1520.76	1525.40	1531.20	1531.20	1533.52
7.5	1510.32	1516.12	1523.08	1524.24	1526.56
10.0	1498.72	1505.68	1511.48	1511.48	1514.96
12.5	1482.48	1487.12	1494.08	1502.20	1505.68
15.0	1459.28	1466.24	1476.68	1484.80	1484.80
17.5	1437.24	1441.88	1454.64	1461.60	1465.08
20.0	1409.40	1412.88	1425.64	1433.76	1438.40
22.5	1376.92	1382.72	1394.32	1404.76	1414.04
25.0	1340.96	1347.92	1358.36	1371.12	1382.72
27.5	1299.20	1308.48	1317.76	1335.16	1346.76
30.0	1253.96	1262.08	1273.68	1291.08	1300.36
32.5	1205.24	1211.04	1224.96	1238.88	1249.32
35.0	1148.40	1153.04	1169.28	1180.88	1191.32
37.5	1086.92	1091.56	1106.64	1113.60	1127.52
40.0	1019.64	1025.44	1034.72	1041.68	1054.44
42.5	948.88	953.52	954.68	959.32	968.60
45.0	872.32	875.80	872.32	872.32	878.12
47.5	791.12	793.44	789.96	783.00	785.32
50.0	709.92	712.24	708.76	690.20	685.56
52.5	627.56	629.88	626.40	596.24	585.80
55.0	551.00	551.00	542.88	506.92	496.48
57.5	480.24	474.44	459.36	428.04	419.92
60.0	414.12	401.36	387.44	367.72	360.76
62.5	358.44	341.04	323.64	312.04	307.40
65.0	303.92	285.36	265.64	266.80	263.32
67.5	256.36	237.80	216.92	229.68	228.52
70.0	214.60	198.36	177.48	200.68	200.68
72.5	179.80	165.88	146.16	177.48	178.64
75.0	148.48	140.36	126.44	156.60	161.24
77.5	126.44	122.96	118.32	135.72	146.16
80.0	111.36	106.72	103.24	124.12	127.60
82.5	91.64	85.84	88.16	106.72	117.16
85.0	68.44	64.96	68.44	84.68	89.32
87.5	44.08	42.92	42.92	55.68	54.52
90.0	16.24	16.24	13.92	15.08	12.76
92.5	1.16	1.16	2.32	1.16	2.32
95.0	1.16	2.32	1.16	1.16	1.16
97.5	2.32	1.16	1.16	2.32	2.32
100.0	1.16	2.32	2.32	1.16	1.16
102.5	2.32	2.32	1.16	1.16	2.32
105.0	2.32	2.32	1.16	2.32	1.16
107.5	2.32	2.32	2.32	2.32	2.32
110.0	2.32	2.32	2.32	1.16	2.32
112.5	2.32	1.16	2.32	2.32	1.16
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	3.48	3.48	2.32	2.32	2.32
140.0	3.48	2.32	2.32	2.32	2.32
142.5	3.48	2.32	3.48	2.32	3.48
145.0	3.48	3.48	3.48	3.48	2.32
147.5	2.32	3.48	3.48	2.32	3.48
150.0	3.48	3.48	3.48	2.32	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	561.33	N.A.	15.60
0-30	1187.12	N.A.	33.00
0-40	1915.07	N.A.	53.30
0-60	3064.7	N.A.	85.30
0-80	3499.79	N.A.	97.40
0-90	3576.69	N.A.	99.50
10-90	3431.41	N.A.	95.50
20-40	1353.74	N.A.	37.70
20-50	2025.45	N.A.	56.40
40-70	1427.73	N.A.	39.70
60-80	435.08	N.A.	12.10
70-80	156.99	N.A.	4.40
80-90	76.90	N.A.	2.10
90-110	5.66	N.A.	0.20
90-120	7.81	N.A.	0.20
90-130	9.89	N.A.	0.30
90-150	13.68	N.A.	0.40
90-180	16.59	N.A.	0.50
110-180	10.93	N.A.	0.30
0-180	3593.28	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	145.28
10-20	416.05
20-30	625.79
30-40	727.94
40-50	671.72
50-60	477.92
60-70	278.09
70-80	156.99
80-90	76.90
90-100	3.59
100-110	2.07
110-120	2.16
120-130	2.08
130-140	1.89
140-150	1.89
150-160	1.59
160-170	0.99
170-180	0.33

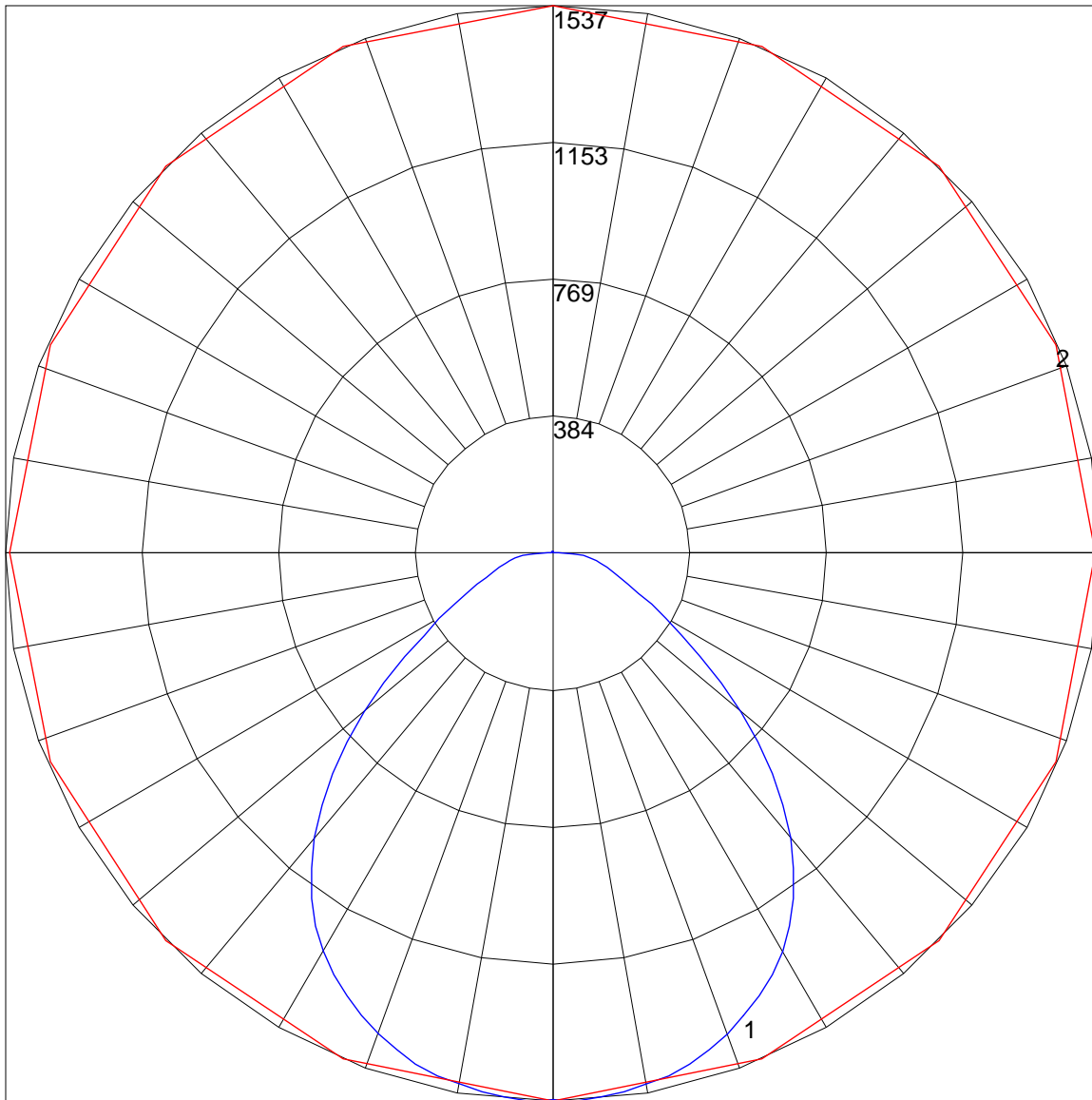
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	100
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	85	81	88	83	79	84	80	77	81	78	75	73
3	93	83	75	69	90	81	74	69	78	72	67	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	54	47	41	53	46	41	51	45	40	50	44	40	38
8	64	51	43	37	62	50	42	37	49	42	37	47	41	36	46	40	36	34
9	59	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31
10	56	43	36	31	55	43	35	30	42	35	30	41	35	30	40	34	30	28

POLAR GRAPH



Maximum Candela = 1537 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.)