



IES INDOOR REPORT
PHOTOMETRIC FILENAME : GA14-LED-HO-WW-P12.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-4709A
[TESTLAB]LSI INDUSTRIES, INC
[ISSUEDATE]3/2/16
[TESTDATE]11/13/13
[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]GA14-LED-HO-WW-P12

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3654
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	34
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	1.00 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3736	3440	2906
55	2947	2430	1941
65	2184	1623	1542
75	1711	1313	1687
85	2254	2075	2719

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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	1561.36	1561.36	1561.36	1561.36	1561.36
2.5	1601.96	1576.44	1559.04	1543.96	1533.52
5.0	1599.64	1574.12	1556.72	1541.64	1531.20
7.5	1593.84	1568.32	1550.92	1535.84	1524.24
10.0	1584.56	1562.52	1542.80	1526.56	1516.12
12.5	1574.12	1549.76	1528.88	1513.80	1502.20
15.0	1559.04	1533.52	1513.80	1496.40	1484.80
17.5	1539.32	1516.12	1496.40	1477.84	1465.08
20.0	1517.28	1494.08	1472.04	1453.48	1440.72
22.5	1487.12	1465.08	1445.36	1426.80	1414.04
25.0	1453.48	1433.76	1412.88	1394.32	1381.56
27.5	1415.20	1395.48	1374.60	1354.88	1344.44
30.0	1371.12	1352.56	1331.68	1311.96	1301.52
32.5	1321.24	1301.52	1279.48	1259.76	1248.16
35.0	1265.56	1247.00	1222.64	1193.64	1176.24
37.5	1202.92	1184.36	1151.88	1108.96	1083.44
40.0	1135.64	1113.60	1073.00	1019.64	988.32
42.5	1061.40	1037.04	989.48	926.84	888.56
45.0	982.52	951.20	904.80	824.76	764.44
47.5	896.68	868.84	818.96	704.12	643.80
50.0	798.08	784.16	722.68	591.60	547.52
52.5	711.08	699.48	615.96	499.96	474.44
55.0	628.72	612.48	518.52	433.84	414.12
57.5	551.00	522.00	439.64	378.16	360.76
60.0	476.76	437.32	370.04	330.60	316.68
62.5	407.16	360.76	309.72	287.68	276.08
65.0	343.36	299.28	255.20	251.72	242.44
67.5	288.84	250.56	209.96	222.72	214.60
70.0	237.80	211.12	172.84	199.52	192.56
72.5	198.36	179.80	145.00	179.80	177.48
75.0	164.72	154.28	126.44	162.40	162.40
77.5	139.20	134.56	113.68	142.68	149.64
80.0	120.64	110.20	102.08	124.12	133.40
82.5	100.92	87.00	88.16	104.40	113.68
85.0	73.08	64.96	67.28	83.52	88.16
87.5	42.92	41.76	42.92	55.68	52.20
90.0	0.00	0.00	0.00	0.00	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	576.64	N.A.	15.80
0-30	1227.56	N.A.	33.60
0-40	1985.92	N.A.	54.30
0-60	3138.31	N.A.	85.90
0-80	3579.06	N.A.	97.90
0-90	3654.13	N.A.	100.00
10-90	3505.74	N.A.	95.90
20-40	1409.28	N.A.	38.60
20-50	2090.89	N.A.	57.20
40-70	1430.43	N.A.	39.10
60-80	440.75	N.A.	12.10
70-80	162.71	N.A.	4.50
80-90	75.07	N.A.	2.10
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3654.13	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	148.39
10-20	428.25
20-30	650.92
30-40	758.36
40-50	681.61
50-60	470.78
60-70	278.04
70-80	162.71
80-90	75.07
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

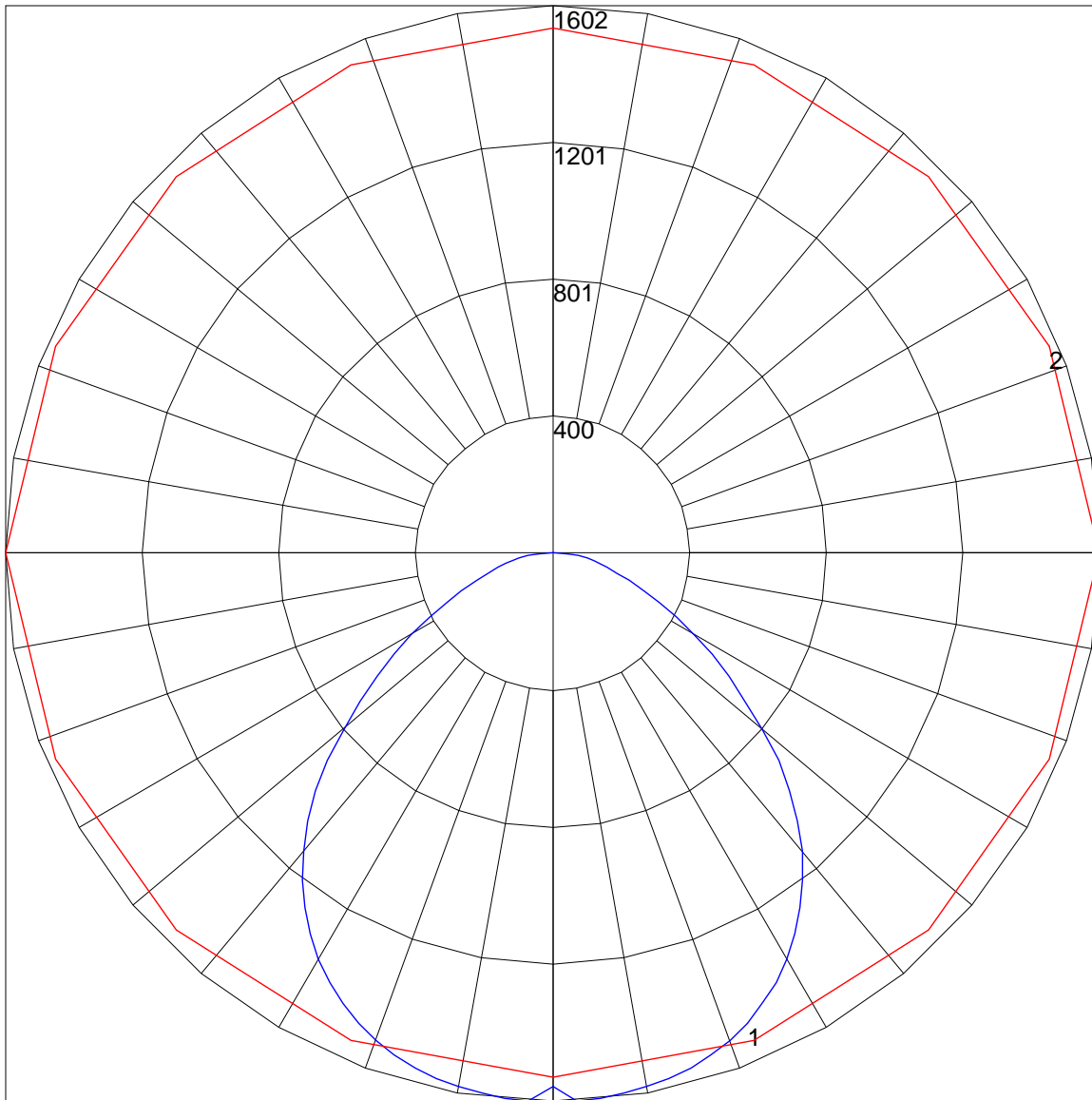
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	62	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32
10	56	43	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29

POLAR GRAPH



Maximum Candela = 1601.96 Located At Horizontal Angle = 0, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)