



IES INDOOR REPORT
PHOTOMETRIC FILENAME : GA14-LED-VHO-NW-P12.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-4710A
[TESTLAB]LSI INDUSTRIES, INC
[ISSUEDATE]2/29/16
[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-VHO-NW-P12

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5069
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	44
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	5125	4772	4022
55	4127	3447	2751
65	3092	2324	2214
75	2446	1832	2386
85	3113	2863	3829

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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	2154.12	2154.12	2154.12	2154.12	2154.12
2.5	2210.96	2176.16	2150.64	2128.60	2112.36
5.0	2206.32	2171.52	2147.16	2125.12	2108.88
7.5	2200.52	2164.56	2140.20	2117.00	2100.76
10.0	2187.76	2151.80	2126.28	2105.40	2085.68
12.5	2171.52	2135.56	2108.88	2086.84	2068.28
15.0	2150.64	2115.84	2086.84	2063.64	2045.08
17.5	2123.96	2089.16	2060.16	2034.64	2017.24
20.0	2093.80	2057.84	2027.68	2002.16	1985.92
22.5	2054.36	2018.40	1990.56	1963.88	1946.48
25.0	2009.12	1974.32	1946.48	1917.48	1904.72
27.5	1951.12	1922.12	1893.12	1867.60	1853.68
30.0	1889.64	1860.64	1832.80	1806.12	1792.20
32.5	1820.04	1792.20	1764.36	1733.04	1713.32
35.0	1743.48	1715.64	1684.32	1642.56	1615.88
37.5	1653.00	1630.96	1592.68	1534.68	1497.56
40.0	1559.04	1534.68	1485.96	1412.88	1360.68
42.5	1458.12	1427.96	1371.12	1284.12	1213.36
45.0	1347.92	1316.60	1255.12	1134.48	1057.92
47.5	1230.76	1205.24	1133.32	980.20	911.76
50.0	1112.44	1090.40	999.92	836.36	779.52
52.5	990.64	976.72	860.72	712.24	671.64
55.0	880.44	856.08	735.44	613.64	586.96
57.5	774.88	734.28	624.08	534.76	512.72
60.0	669.32	619.44	528.96	467.48	448.92
62.5	573.04	513.88	440.80	409.48	394.40
65.0	486.04	428.04	365.40	358.44	348.00
67.5	408.32	354.96	300.44	315.52	307.40
70.0	342.20	298.12	247.08	280.72	276.08
72.5	281.88	251.72	205.32	252.88	250.56
75.0	235.48	213.44	176.32	227.36	229.68
77.5	193.72	180.96	155.44	199.52	209.96
80.0	164.72	149.64	138.04	172.84	186.76
82.5	135.72	119.48	119.48	145.00	157.76
85.0	100.92	89.32	92.80	116.00	124.12
87.5	60.32	56.84	59.16	78.88	77.72
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	794.85	N.A.	15.70
0-30	1691.54	N.A.	33.40
0-40	2736.56	N.A.	54.00
0-60	4342.47	N.A.	85.70
0-80	4965.49	N.A.	98.00
0-90	5069.19	N.A.	100.00
10-90	4864.55	N.A.	96.00
20-40	1941.71	N.A.	38.30
20-50	2885.09	N.A.	56.90
40-70	2001.34	N.A.	39.50
60-80	623.02	N.A.	12.30
70-80	227.59	N.A.	4.50
80-90	103.69	N.A.	2.00
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	5069.19	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	204.64
10-20	590.21
20-30	896.69
30-40	1045.02
40-50	943.37
50-60	662.53
60-70	395.44
70-80	227.59
80-90	103.69
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

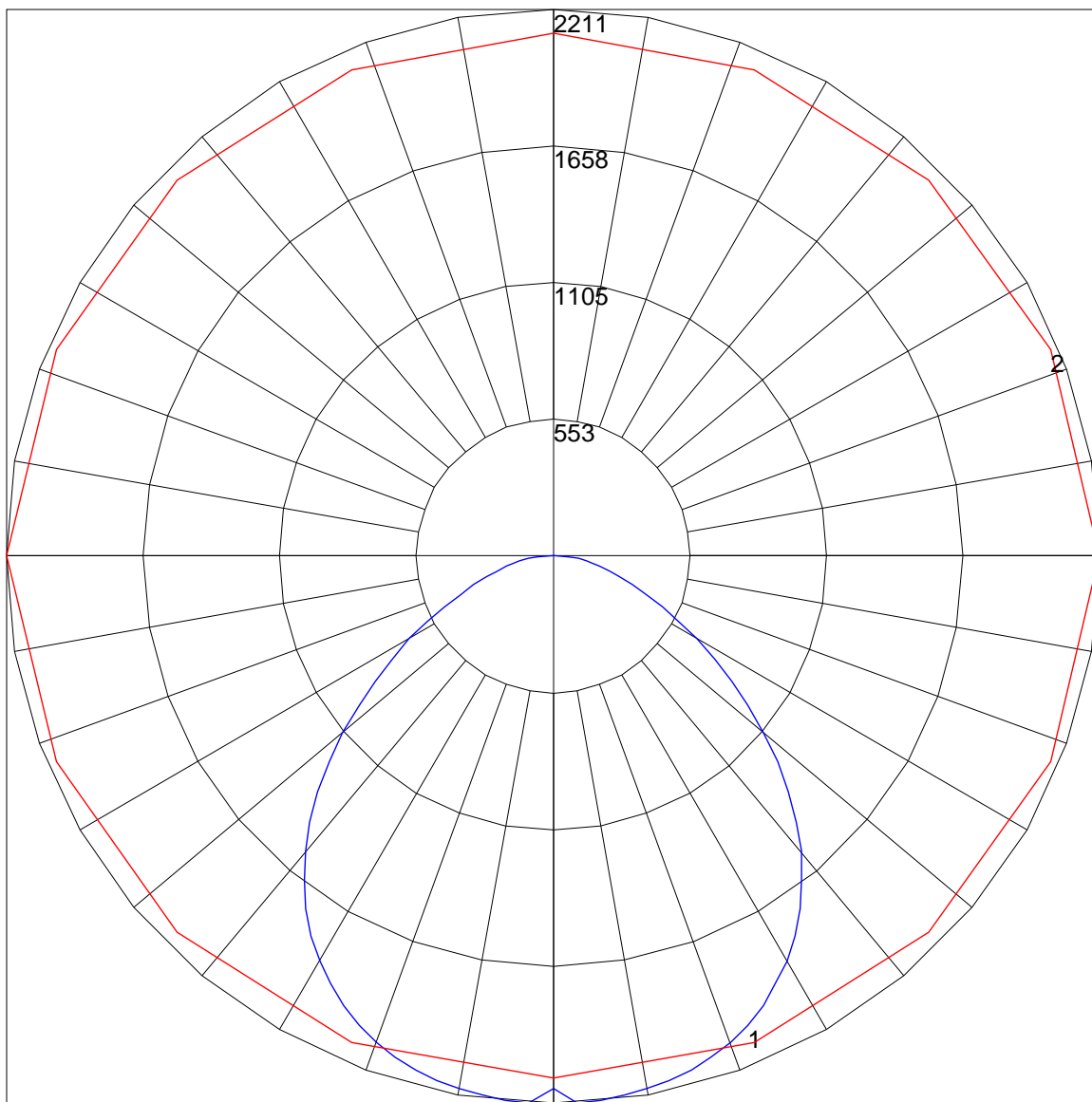
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	91	86	81	88	83	79	85	81	77	82	78	75	73
3	93	83	76	70	90	81	75	69	79	73	68	76	71	67	73	69	65	63
4	86	74	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	52	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35
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	36	31	42	35	31	41	35	30	40	34	30	29

POLAR GRAPH



Maximum Candela = 2210.96 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.)