



IES INDOOR REPORT
PHOTOMETRIC FILENAME : XLPG-LED-HO-WW.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-5090A
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]01/30/14
[TEST DATE]04/19/16
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMEN CATEGORY]XLPG-LED-HO-WW
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED
[OTHER]SCALED FROM ORIGINAL TEST DATA
[SEARCH SOURCE TYPE] LED
[SEARCH APPLICATION] Indoor

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8219
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	78.8
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.78
Spacing Criterion (Diagonal)	1.74
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.25 ft
Luminous Width (90-270)	0.58 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5402	7791	9471
55	5110	9472	12237
65	4810	12517	16936
75	4419	19368	27171
85	4562	48135	70845

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CANDELA TABULATION

	<u>0</u>	<u>5</u>	<u>15</u>	<u>25</u>	<u>35</u>	<u>45</u>	<u>55</u>	<u>65</u>	<u>75</u>	<u>85</u>
0.0	1272.05	1272.05	1272.05	1272.05	1272.05	1272.05	1272.05	1272.05	1272.05	1272.05
2.5	1310.16	1306.04	1291.62	1286.47	1281.32	1269.99	1261.75	1255.57	1250.42	1244.24
5.0	1308.10	1305.01	1290.59	1285.44	1280.29	1269.99	1261.75	1255.57	1251.45	1246.30
7.5	1302.95	1299.86	1285.44	1281.32	1277.20	1268.96	1262.78	1258.66	1255.57	1251.45
10.0	1295.74	1291.62	1278.23	1276.17	1274.11	1268.96	1265.87	1265.87	1264.84	1260.72
12.5	1285.44	1281.32	1268.96	1268.96	1271.02	1271.02	1272.05	1276.17	1277.20	1275.14
15.0	1271.02	1267.93	1256.60	1260.72	1268.96	1274.11	1280.29	1288.53	1292.65	1291.62
17.5	1254.54	1251.45	1242.18	1251.45	1265.87	1276.17	1288.53	1300.89	1308.10	1307.07
20.0	1233.94	1231.88	1226.73	1241.15	1262.78	1279.26	1296.77	1311.19	1320.46	1321.49
22.5	1211.28	1209.22	1208.19	1228.79	1257.63	1281.32	1301.92	1320.46	1335.91	1341.06
25.0	1186.56	1183.47	1185.53	1214.37	1251.45	1280.29	1306.04	1336.94	1358.57	1365.78
27.5	1157.72	1155.66	1161.84	1198.92	1242.18	1276.17	1316.34	1355.48	1382.26	1390.50
30.0	1126.82	1124.76	1136.09	1181.41	1229.82	1275.14	1328.70	1374.02	1404.92	1415.22
32.5	1091.80	1091.80	1108.28	1161.84	1215.40	1276.17	1339.00	1391.53	1425.52	1438.91
35.0	1054.72	1054.72	1078.41	1138.15	1202.01	1277.20	1348.27	1408.01	1446.12	1460.54
37.5	1015.58	1015.58	1046.48	1111.37	1190.68	1277.20	1357.54	1423.46	1465.69	1482.17
40.0	973.35	974.38	1012.49	1083.56	1178.32	1275.14	1365.78	1437.88	1484.23	1501.74
42.5	929.06	930.09	975.41	1053.69	1164.93	1273.08	1372.99	1452.30	1503.80	1523.37
45.0	880.65	884.77	936.27	1025.88	1149.48	1269.99	1380.20	1466.72	1521.31	1542.94
47.5	831.21	834.30	894.04	997.04	1133.00	1265.87	1386.38	1481.14	1538.82	1562.51
50.0	778.68	783.83	848.72	968.20	1115.49	1261.75	1392.56	1491.44	1555.30	1581.05
52.5	727.18	734.39	803.40	937.30	1097.98	1257.63	1397.71	1502.77	1571.78	1599.59
55.0	675.68	683.92	757.05	905.37	1079.44	1252.48	1400.80	1513.07	1585.17	1616.07
57.5	624.18	633.45	713.79	873.44	1060.90	1246.30	1403.89	1521.31	1597.53	1629.46
60.0	571.65	581.95	671.56	840.48	1041.33	1238.06	1403.89	1527.49	1604.74	1638.73
62.5	520.15	532.51	628.30	808.55	1021.76	1229.82	1403.89	1530.58	1609.89	1643.88
65.0	468.65	482.04	586.07	775.59	1001.16	1219.52	1400.80	1530.58	1610.92	1645.94
67.5	415.09	427.45	543.84	743.66	979.53	1208.19	1395.65	1528.52	1609.89	1644.91
70.0	364.62	379.04	503.67	711.73	955.84	1195.83	1388.44	1523.37	1605.77	1640.79
72.5	312.09	329.60	463.50	678.77	932.15	1178.32	1375.05	1512.04	1596.50	1633.58
75.0	263.68	282.22	426.42	644.78	904.34	1155.66	1354.45	1494.53	1577.96	1617.10
77.5	215.27	235.87	389.34	608.73	869.32	1122.70	1323.55	1463.63	1548.09	1587.23
80.0	169.95	193.64	353.29	570.62	829.15	1082.53	1281.32	1421.40	1505.86	1545.00
82.5	126.69	155.53	315.18	528.39	782.80	1030.00	1225.70	1361.66	1446.12	1487.32
85.0	91.67	121.54	279.13	485.13	729.24	967.17	1158.75	1293.68	1379.17	1420.37
87.5	63.86	93.73	243.08	438.78	668.47	895.07	1079.44	1212.31	1300.89	1341.06
90.0	48.41	74.16	211.15	390.37	602.55	814.73	990.86	1121.67	1207.16	1249.39
92.5	44.29	60.77	180.25	341.96	531.48	726.15	890.95	1015.58	1100.04	1143.30
95.0	41.20	50.47	151.41	292.52	458.35	627.27	784.86	901.25	981.59	1022.79
97.5	38.11	42.23	124.63	247.20	387.28	538.69	674.65	783.83	860.05	899.19
100.0	35.02	36.05	98.88	202.91	322.39	452.17	575.77	677.74	748.81	781.77
102.5	31.93	31.93	76.22	162.74	263.68	372.86	478.95	568.56	632.42	666.41
105.0	28.84	28.84	58.71	129.78	212.18	301.79	391.40	468.65	523.24	554.14
107.5	25.75	24.72	44.29	101.97	168.92	239.99	310.03	374.92	424.36	450.11
110.0	22.66	21.63	33.99	78.28	131.84	189.52	242.05	292.52	331.66	355.35
112.5	19.57	19.57	25.75	59.74	104.03	146.26	189.52	227.63	257.50	276.04
115.0	16.48	16.48	19.57	46.35	81.37	115.36	146.26	177.16	199.82	212.18
117.5	14.42	14.42	15.45	36.05	63.86	91.67	116.39	136.99	152.44	161.71
120.0	12.36	12.36	12.36	27.81	50.47	73.13	92.70	108.15	120.51	126.69
122.5	10.30	10.30	9.27	21.63	40.17	58.71	74.16	86.52	94.76	100.94
125.0	9.27	9.27	8.24	16.48	31.93	47.38	59.74	70.04	76.22	80.34
127.5	8.24	7.21	7.21	12.36	24.72	38.11	48.41	56.65	62.83	65.92
130.0	7.21	6.18	6.18	9.27	19.57	29.87	40.17	46.35	51.50	54.59
132.5	6.18	6.18	5.15	6.18	15.45	24.72	31.93	39.14	43.26	45.32

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PHOTOMETRIC FILENAME : XLPG-LED-HO-WW.IES

CANDELA TABULATION - (Cont.)

135.0	5.15	5.15	4.12	4.12	11.33	19.57	26.78	31.93	35.02	37.08
137.5	4.12	4.12	4.12	3.09	8.24	15.45	21.63	26.78	29.87	30.90
140.0	3.09	3.09	3.09	2.06	5.15	11.33	17.51	21.63	24.72	25.75
142.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Horizontal Angles

	<u>90</u>
0.0	1272.05
2.5	1243.21
5.0	1245.27
7.5	1249.39
10.0	1259.69
12.5	1274.11
15.0	1290.59
17.5	1306.04
20.0	1320.46
22.5	1339.00
25.0	1363.72
27.5	1389.47
30.0	1414.19
32.5	1437.88
35.0	1460.54
37.5	1482.17
40.0	1502.77
42.5	1524.40
45.0	1543.97
47.5	1563.54
50.0	1583.11
52.5	1601.65
55.0	1618.13
57.5	1632.55
60.0	1641.82
62.5	1646.97
65.0	1650.06
67.5	1649.03
70.0	1645.94
72.5	1637.70
75.0	1621.22
77.5	1592.38
80.0	1550.15

IES INDOOR REPORT
PHOTOMETRIC FILENAME : XLPG-LED-HO-WW.IES

CANDELA TABULATION - (Cont.)

82.5	1492.47
85.0	1423.46
87.5	1346.21
90.0	1254.54
92.5	1148.45
95.0	1027.94
97.5	904.34
100.0	790.01
102.5	671.56
105.0	556.20
107.5	453.20
110.0	357.41
112.5	277.07
115.0	213.21
117.5	165.83
120.0	127.72
122.5	100.94
125.0	81.37
127.5	65.92
130.0	54.59
132.5	45.32
135.0	37.08
137.5	30.90
140.0	25.75
142.5	0.00
145.0	0.00
147.5	0.00
150.0	0.00
152.5	0.00
155.0	0.00
157.5	0.00
160.0	0.00
162.5	0.00
165.0	0.00
167.5	0.00
170.0	0.00
172.5	0.00
175.0	0.00
177.5	0.00
180.0	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	482.94	N.A.	5.90
0-30	1073.43	N.A.	13.10
0-40	1869.35	N.A.	22.70
0-60	3904.79	N.A.	47.50
0-80	6139.22	N.A.	74.70
0-90	7082.64	N.A.	86.20
10-90	6961.25	N.A.	84.70
20-40	1386.41	N.A.	16.90
20-50	2347.09	N.A.	28.60
40-70	3164.4	N.A.	38.50
60-80	2234.43	N.A.	27.20
70-80	1105.48	N.A.	13.50
80-90	943.42	N.A.	11.50
90-110	959.54	N.A.	11.70
90-120	1077.79	N.A.	13.10
90-130	1119.6	N.A.	13.60
90-150	1136.48	N.A.	13.80
90-180	1136.48	N.A.	13.80
110-180	176.94	N.A.	2.20
0-180	8219.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	121.39
10-20	361.55
20-30	590.49
30-40	795.92
40-50	960.69
50-60	1074.76
60-70	1128.95
70-80	1105.48
80-90	943.42
90-100	639.67
100-110	319.87
110-120	118.25
120-130	41.81
130-140	15.79
140-150	1.09
150-160	0.00
160-170	0.00
170-180	0.00

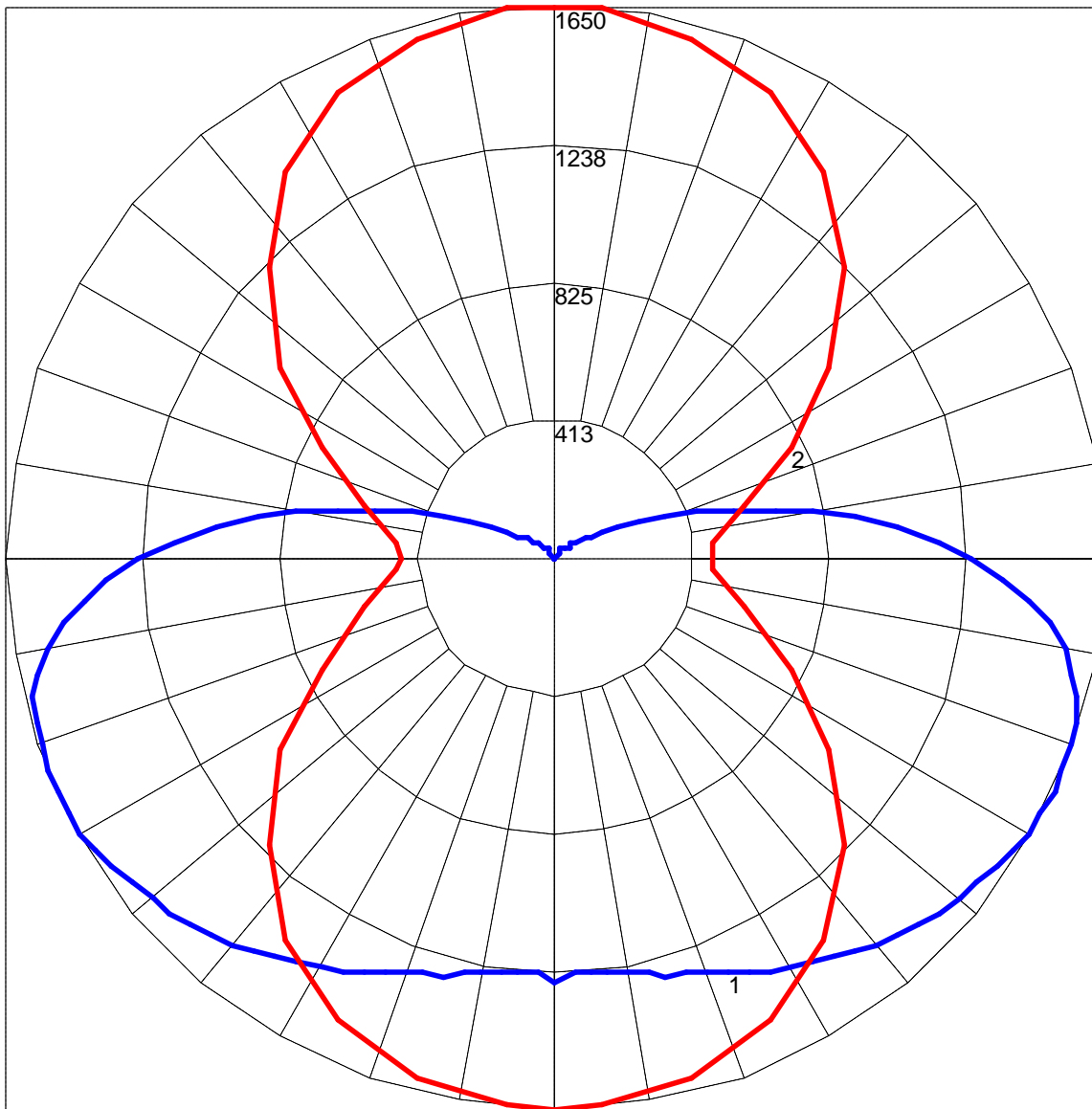
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PHOTOMETRIC FILENAME : XLPG-LED-HO-WW.IES

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	116	116	116	116	111	111	111	111	103	103	103	96	96	96	89	89	89	86
1	100	93	87	81	96	89	84	78	82	78	73	76	72	69	70	67	64	61
2	89	78	69	62	85	75	67	60	69	62	56	63	58	53	58	54	49	46
3	80	67	57	49	76	64	55	47	59	51	45	54	48	42	50	44	40	36
4	72	58	48	40	69	56	46	39	51	43	37	47	40	35	43	37	33	30
5	66	51	41	33	63	49	40	32	45	37	31	42	35	29	38	32	27	25
6	60	46	35	28	57	44	34	28	40	32	26	37	30	25	34	28	24	21
7	56	41	31	24	53	39	30	24	36	29	23	34	27	22	31	25	20	18
8	52	37	28	21	49	36	27	21	33	25	20	31	24	19	29	23	18	16
9	48	34	25	19	46	33	24	19	30	23	18	28	22	17	26	20	16	14
10	45	31	23	17	43	30	22	17	28	21	16	26	20	15	24	19	14	12

POLAR GRAPH



Maximum Candela = 1650.06 Located At Horizontal Angle = 90, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)