



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

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-5091A  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]01/30/14  
[TEST DATE]04/19/16  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMEN CATEGORY]XLPG-LED-HO-WW-CLR  
[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	8433
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	78.8
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.92
Spacing Criterion (Diagonal)	1.88
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	5150	7778	9876
55	4720	10485	12113
65	4123	13278	17021
75	3332	20680	27482
85	3383	55056	75048

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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>
<b>0.0</b>	1221.58	1221.58	1221.58	1221.58	1221.58	1221.58	1221.58	1221.58	1221.58	1221.58
<b>2.5</b>	1258.66	1254.54	1239.09	1234.97	1231.88	1219.52	1210.25	1204.07	1198.92	1192.74
<b>5.0</b>	1258.66	1253.51	1238.06	1233.94	1228.79	1218.49	1208.19	1204.07	1200.98	1195.83
<b>7.5</b>	1253.51	1249.39	1231.88	1229.82	1226.73	1218.49	1211.28	1210.25	1211.28	1210.25
<b>10.0</b>	1246.30	1241.15	1224.67	1224.67	1226.73	1224.67	1239.09	1207.16	1176.26	1166.99
<b>12.5</b>	1234.97	1231.88	1218.49	1221.58	1236.00	1213.34	1189.65	1221.58	1254.54	1249.39
<b>15.0</b>	1224.67	1217.46	1204.07	1215.40	1215.40	1209.22	1253.51	1191.71	1217.46	1244.24
<b>17.5</b>	1206.13	1199.95	1191.71	1222.61	1189.65	1241.15	1225.70	1288.53	1244.24	1222.61
<b>20.0</b>	1187.59	1182.44	1178.32	1181.41	1238.06	1220.55	1246.30	1258.66	1313.25	1345.18
<b>22.5</b>	1164.93	1161.84	1161.84	1146.39	1159.78	1244.24	1274.11	1350.33	1362.69	1324.58
<b>25.0</b>	1139.18	1135.06	1148.45	1179.35	1231.88	1232.91	1344.15	1297.80	1289.56	1420.37
<b>27.5</b>	1110.34	1108.28	1139.18	1172.14	1187.59	1312.22	1274.11	1481.14	1448.18	1367.84
<b>30.0</b>	1079.44	1077.38	1089.74	1092.83	1198.92	1276.17	1460.54	1343.12	1568.69	1479.08
<b>32.5</b>	1045.45	1045.45	1030.00	1153.60	1256.60	1246.30	1309.13	1450.24	1488.35	1518.22
<b>35.0</b>	1007.34	1009.40	1018.67	1102.10	1226.73	1377.11	1423.46	1489.38	1434.79	1419.34
<b>37.5</b>	969.23	971.29	1026.91	1073.26	1145.36	1410.07	1442.00	1382.26	1551.18	1599.59
<b>40.0</b>	928.03	932.15	996.01	1124.76	1328.70	1339.00	1337.97	1557.36	1484.23	1516.16
<b>42.5</b>	885.80	889.92	914.64	1118.58	1160.81	1364.75	1489.38	1460.54	1640.79	1635.64
<b>45.0</b>	839.45	845.63	917.73	1001.16	1246.30	1267.93	1380.20	1592.38	1563.54	1617.10
<b>47.5</b>	787.95	799.28	894.04	1044.42	1242.18	1414.19	1534.70	1545.00	1600.62	1554.27
<b>50.0</b>	737.48	750.87	822.97	1087.68	1128.88	1330.76	1455.39	1496.59	1633.58	1643.88
<b>52.5</b>	677.74	706.58	814.73	1160.81	1217.46	1391.53	1442.00	1580.02	1557.36	1563.54
<b>55.0</b>	624.18	657.14	813.70	996.01	1111.37	1386.38	1500.71	1484.23	1657.27	1612.98
<b>57.5</b>	570.62	592.25	722.03	943.48	1256.60	1316.34	1393.59	1534.70	1635.64	1711.86
<b>60.0</b>	510.88	539.72	665.38	914.64	1184.50	1299.86	1443.03	1626.37	1732.46	1744.82
<b>62.5</b>	457.32	477.92	693.19	877.56	1136.09	1340.03	1519.25	1658.30	1755.12	1683.02
<b>65.0</b>	401.70	425.39	668.47	978.50	1087.68	1293.68	1576.93	1570.75	1633.58	1660.36
<b>67.5</b>	348.14	368.74	600.49	931.12	1097.98	1405.95	1464.66	1569.72	1622.25	1642.85
<b>70.0</b>	296.64	317.24	511.91	843.57	1156.69	1312.22	1459.51	1536.76	1568.69	1574.87
<b>72.5</b>	245.14	271.92	456.29	802.37	1262.78	1307.07	1412.13	1415.22	1484.23	1546.03
<b>75.0</b>	198.79	231.75	475.86	825.03	1062.96	1233.94	1299.86	1491.44	1578.99	1628.43
<b>77.5</b>	157.59	185.40	428.48	847.69	1009.40	1139.18	1367.84	1564.57	1666.54	1707.74
<b>80.0</b>	119.48	150.38	348.14	721.00	901.25	1219.52	1428.61	1509.98	1566.63	1598.56
<b>82.5</b>	90.64	119.48	436.72	581.95	979.53	1217.46	1339.00	1438.91	1498.65	1531.61
<b>85.0</b>	67.98	93.73	278.10	644.78	924.94	1106.22	1264.84	1384.32	1463.63	1503.80
<b>87.5</b>	53.56	78.28	280.16	577.83	844.60	1072.23	1247.33	1372.99	1458.48	1497.62
<b>90.0</b>	42.23	65.92	244.11	525.30	803.40	1020.73	1207.16	1324.58	1413.16	1461.57
<b>92.5</b>	35.02	54.59	187.46	448.05	734.39	1044.42	1250.42	1363.72	1435.82	1475.99
<b>95.0</b>	31.93	44.29	126.69	288.40	464.53	619.03	745.72	829.15	928.03	957.90
<b>97.5</b>	30.90	37.08	73.13	243.08	396.55	524.27	630.36	723.06	799.28	841.51
<b>100.0</b>	29.87	31.93	53.56	83.43	364.62	488.22	581.95	654.05	699.37	721.00
<b>102.5</b>	28.84	27.81	41.20	63.86	101.97	468.65	532.51	622.12	668.47	689.07
<b>105.0</b>	25.75	24.72	31.93	43.26	65.92	108.15	482.04	585.04	616.97	640.66
<b>107.5</b>	23.69	21.63	24.72	32.96	50.47	66.95	87.55	335.78	596.37	654.05
<b>110.0</b>	20.60	18.54	19.57	26.78	33.99	53.56	67.98	79.31	93.73	122.57
<b>112.5</b>	17.51	16.48	15.45	23.69	25.75	41.20	51.50	66.95	72.10	75.19
<b>115.0</b>	14.42	14.42	12.36	19.57	21.63	24.72	43.26	52.53	56.65	64.89
<b>117.5</b>	12.36	12.36	10.30	16.48	19.57	20.60	24.72	40.17	54.59	54.59
<b>120.0</b>	10.30	10.30	8.24	13.39	17.51	17.51	19.57	23.69	30.90	37.08
<b>122.5</b>	9.27	9.27	7.21	10.30	15.45	16.48	17.51	18.54	20.60	21.63
<b>125.0</b>	8.24	7.21	6.18	9.27	13.39	15.45	15.45	16.48	17.51	17.51
<b>127.5</b>	7.21	6.18	5.15	7.21	11.33	13.39	14.42	14.42	15.45	15.45
<b>130.0</b>	6.18	6.18	5.15	6.18	9.27	12.36	13.39	13.39	14.42	14.42
<b>132.5</b>	5.15	5.15	4.12	4.12	7.21	10.30	12.36	12.36	13.39	13.39

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**CANDELA TABULATION - (Cont.)**

135.0	4.12	4.12	4.12	4.12	6.18	8.24	10.30	11.33	11.33	12.36
137.5	4.12	4.12	4.12	3.09	5.15	7.21	9.27	10.30	11.33	11.33
140.0	4.12	3.09	3.09	3.09	4.12	6.18	7.21	9.27	10.30	10.30
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	1221.58
2.5	1191.71
5.0	1194.80
7.5	1209.22
10.0	1164.93
12.5	1247.33
15.0	1246.30
17.5	1219.52
20.0	1344.15
22.5	1314.28
25.0	1444.06
27.5	1360.63
30.0	1467.75
32.5	1512.04
35.0	1420.37
37.5	1596.50
40.0	1527.49
42.5	1629.46
45.0	1609.89
47.5	1556.33
50.0	1640.79
52.5	1569.72
55.0	1601.65
57.5	1717.01
60.0	1748.94
62.5	1683.02
65.0	1658.30
67.5	1648.00
70.0	1576.93
72.5	1554.27
75.0	1639.76
77.5	1709.80
80.0	1601.65

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**CANDELA TABULATION - (Cont.)**

<b>82.5</b>	1536.76
<b>85.0</b>	1507.92
<b>87.5</b>	1506.89
<b>90.0</b>	1466.72
<b>92.5</b>	1483.20
<b>95.0</b>	963.05
<b>97.5</b>	844.60
<b>100.0</b>	724.09
<b>102.5</b>	697.31
<b>105.0</b>	649.93
<b>107.5</b>	661.26
<b>110.0</b>	142.14
<b>112.5</b>	76.22
<b>115.0</b>	64.89
<b>117.5</b>	54.59
<b>120.0</b>	37.08
<b>122.5</b>	22.66
<b>125.0</b>	18.54
<b>127.5</b>	15.45
<b>130.0</b>	14.42
<b>132.5</b>	13.39
<b>135.0</b>	12.36
<b>137.5</b>	11.33
<b>140.0</b>	10.30
<b>142.5</b>	0.00
<b>145.0</b>	0.00
<b>147.5</b>	0.00
<b>150.0</b>	0.00
<b>152.5</b>	0.00
<b>155.0</b>	0.00
<b>157.5</b>	0.00
<b>160.0</b>	0.00
<b>162.5</b>	0.00
<b>165.0</b>	0.00
<b>167.5</b>	0.00
<b>170.0</b>	0.00
<b>172.5</b>	0.00
<b>175.0</b>	0.00
<b>177.5</b>	0.00
<b>180.0</b>	0.00

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	463.77	N.A.	5.50
0-30	1047.4	N.A.	12.40
0-40	1853.71	N.A.	22.00
0-60	3968.27	N.A.	47.10
0-80	6327.09	N.A.	75.00
0-90	7386.77	N.A.	87.60
10-90	7270.32	N.A.	86.20
20-40	1389.94	N.A.	16.50
20-50	2383.78	N.A.	28.30
40-70	3311.57	N.A.	39.30
60-80	2358.82	N.A.	28.00
70-80	1161.81	N.A.	13.80
80-90	1059.68	N.A.	12.60
90-110	990.87	N.A.	11.70
90-120	1026.99	N.A.	12.20
90-130	1039.42	N.A.	12.30
90-150	1046.38	N.A.	12.40
90-180	1046.38	N.A.	12.40
110-180	55.51	N.A.	0.70
0-180	8433.15	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	116.45
10-20	347.32
20-30	583.63
30-40	806.31
40-50	993.85
50-60	1120.71
60-70	1197.01
70-80	1161.81
80-90	1059.68
90-100	701.83
100-110	289.04
110-120	36.12
120-130	12.43
130-140	6.42
140-150	0.54
150-160	0.00
160-170	0.00
170-180	0.00

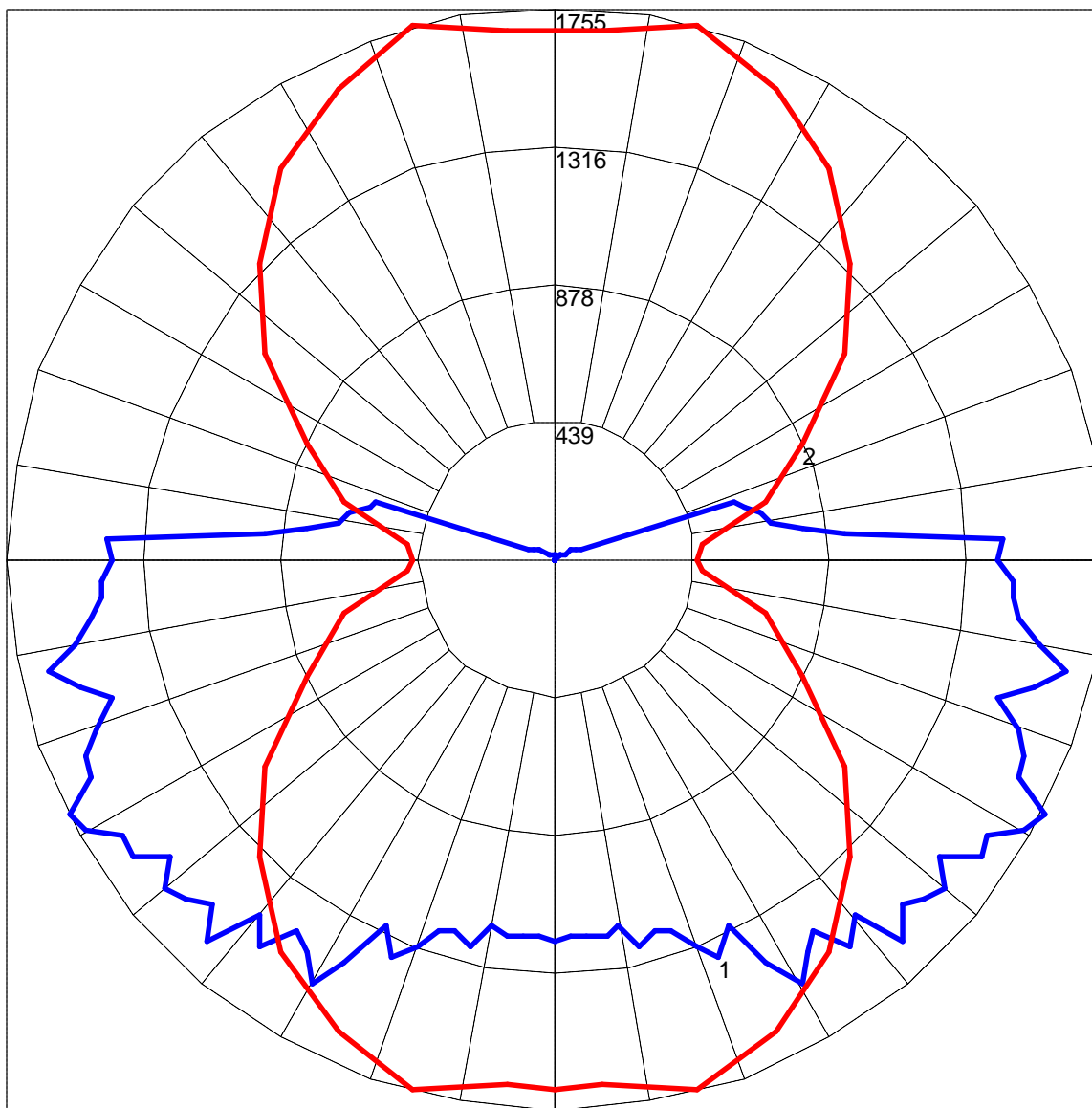
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	91	91	91	88
1	100	93	86	80	96	89	83	78	82	77	73	76	72	68	70	67	64	61
2	89	77	68	61	84	74	66	59	69	62	56	63	57	52	58	54	49	46
3	79	66	56	48	75	63	54	46	59	51	44	54	47	42	50	44	39	36
4	72	57	47	39	68	55	45	38	51	43	36	47	40	34	43	37	32	29
5	65	50	40	32	62	49	39	32	45	36	30	41	34	29	38	32	27	24
6	60	45	35	27	57	43	34	27	40	32	26	37	30	24	34	28	23	21
7	55	40	31	24	53	39	30	23	36	28	22	34	26	21	31	25	20	18
8	51	36	27	21	49	35	26	20	33	25	19	31	24	18	28	22	18	15
9	48	33	24	18	46	32	24	18	30	22	17	28	21	16	26	20	16	14
10	45	30	22	16	43	29	21	16	28	20	15	26	19	15	24	18	14	12

POLAR GRAPH



Maximum Candela = 1755.12 Located At Horizontal Angle = 75, Vertical Angle = 62.5  
# 1 - Vertical Plane Through Horizontal Angles (75 - 255) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (62.5) (Through Max. Cd.)