



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

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-5087A  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]01/30/14  
[TEST DATE]04/19/16  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMEN CATEGORY]XLPG-LED-HO-NW-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	8732
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	79.1
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.92
Spacing Criterion (Diagonal)	1.86
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	5371	8656	10438
55	4931	10687	12214
65	4313	14071	17317
75	3418	21284	28500
85	3332	57106	78073

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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>	1277.20	1277.20	1277.20	1277.20	1277.20	1277.20	1277.20	1277.20	1277.20	1277.20
<b>2.5</b>	1317.37	1314.28	1296.77	1293.68	1287.50	1275.14	1265.87	1259.69	1254.54	1248.36
<b>5.0</b>	1314.28	1312.22	1293.68	1291.62	1285.44	1275.14	1266.90	1259.69	1253.51	1247.33
<b>7.5</b>	1310.16	1306.04	1289.56	1288.53	1285.44	1273.08	1264.84	1262.78	1260.72	1254.54
<b>10.0</b>	1301.92	1299.86	1283.38	1279.26	1280.29	1276.17	1279.26	1292.65	1300.89	1300.89
<b>12.5</b>	1289.56	1287.50	1274.11	1272.05	1279.26	1296.77	1314.28	1253.51	1194.80	1191.71
<b>15.0</b>	1278.23	1273.08	1261.75	1266.90	1295.74	1306.04	1204.07	1258.66	1289.56	1295.74
<b>17.5</b>	1260.72	1256.60	1245.27	1262.78	1310.16	1225.70	1291.62	1325.61	1357.54	1390.50
<b>20.0</b>	1241.15	1236.00	1228.79	1271.02	1182.44	1286.47	1343.12	1410.07	1360.63	1348.27
<b>22.5</b>	1216.43	1210.25	1211.28	1273.08	1228.79	1319.43	1381.23	1328.70	1309.13	1343.12
<b>25.0</b>	1190.68	1186.56	1190.68	1171.11	1271.02	1374.02	1303.98	1386.38	1438.91	1442.00
<b>27.5</b>	1157.72	1157.72	1177.29	1148.45	1301.92	1284.41	1377.11	1378.14	1592.38	1675.81
<b>30.0</b>	1126.82	1126.82	1164.93	1171.11	1324.58	1286.47	1343.12	1631.52	1522.34	1524.40
<b>32.5</b>	1090.77	1091.80	1151.54	1192.74	1224.67	1377.11	1596.50	1502.77	1515.13	1519.25
<b>35.0</b>	1053.69	1056.78	1112.40	1207.16	1192.74	1395.65	1464.66	1492.47	1556.33	1572.81
<b>37.5</b>	1013.52	1015.58	993.95	1219.52	1283.38	1456.42	1448.18	1539.85	1505.86	1487.32
<b>40.0</b>	970.26	972.32	955.84	1108.28	1182.44	1386.38	1484.23	1437.88	1645.94	1694.35
<b>42.5</b>	924.94	930.09	956.87	1036.18	1419.34	1376.08	1394.62	1649.03	1643.88	1657.27
<b>45.0</b>	875.50	882.71	964.08	1103.13	1279.26	1411.10	1570.75	1605.77	1730.40	1701.56
<b>47.5</b>	825.03	833.27	950.69	1090.77	1238.06	1298.83	1533.67	1671.69	1634.61	1655.21
<b>50.0</b>	771.47	779.71	953.78	1184.50	1253.51	1482.17	1623.28	1594.44	1624.31	1662.42
<b>52.5</b>	714.82	728.21	896.10	1112.40	1151.54	1428.61	1513.07	1588.26	1708.77	1708.77
<b>55.0</b>	651.99	674.65	749.84	1024.85	1280.29	1413.16	1489.38	1644.91	1528.52	1597.53
<b>57.5</b>	592.25	626.24	710.70	1000.13	1237.03	1363.72	1556.33	1505.86	1713.92	1733.49
<b>60.0</b>	534.57	585.04	761.17	946.57	1284.41	1435.82	1381.23	1642.85	1830.31	1929.19
<b>62.5</b>	477.92	529.42	650.96	966.14	1174.20	1219.52	1530.58	1847.82	1746.88	1736.58
<b>65.0</b>	420.24	445.99	730.27	953.78	1227.76	1370.93	1743.79	1622.25	1650.06	1679.93
<b>67.5</b>	364.62	359.47	592.25	941.42	962.02	1566.63	1490.41	1593.41	1710.83	1746.88
<b>70.0</b>	309.00	311.06	582.98	872.41	1158.75	1362.69	1508.95	1645.94	1648.00	1575.90
<b>72.5</b>	257.50	285.31	484.10	704.52	1301.92	1361.66	1502.77	1388.44	1519.25	1607.83
<b>75.0</b>	203.94	263.68	567.53	816.79	1079.44	1269.99	1317.37	1551.18	1642.85	1695.38
<b>77.5</b>	160.68	177.16	457.32	852.84	1042.36	1181.41	1418.31	1606.80	1698.47	1735.55
<b>80.0</b>	121.54	147.29	328.57	803.40	940.39	1261.75	1463.63	1567.66	1643.88	1677.87
<b>82.5</b>	90.64	128.75	424.36	610.79	1009.40	1259.69	1392.56	1501.74	1572.81	1601.65
<b>85.0</b>	66.95	106.09	275.01	674.65	972.32	1147.42	1311.19	1438.91	1522.34	1564.57
<b>87.5</b>	51.50	78.28	296.64	590.19	875.50	1104.16	1280.29	1408.01	1494.53	1536.76
<b>90.0</b>	40.17	64.89	249.26	537.66	822.97	1053.69	1223.64	1359.60	1448.18	1492.47
<b>92.5</b>	32.96	53.56	167.89	420.24	749.84	1038.24	1228.79	1370.93	1469.81	1505.86
<b>95.0</b>	29.87	43.26	127.72	287.37	469.68	642.72	785.89	921.85	1028.97	1080.47
<b>97.5</b>	29.87	35.02	73.13	257.50	412.00	542.81	654.05	742.63	803.40	836.36
<b>100.0</b>	28.84	30.90	53.56	83.43	379.04	493.37	598.43	667.44	714.82	737.48
<b>102.5</b>	26.78	26.78	39.14	59.74	140.08	482.04	544.87	624.18	685.98	711.73
<b>105.0</b>	24.72	23.69	30.90	43.26	62.83	159.65	414.06	610.79	632.42	654.05
<b>107.5</b>	21.63	20.60	23.69	30.90	50.47	64.89	122.57	355.35	431.57	559.29
<b>110.0</b>	18.54	17.51	18.54	25.75	30.90	46.35	66.95	80.34	136.99	250.29
<b>112.5</b>	15.45	14.42	14.42	22.66	23.69	38.11	44.29	63.86	72.10	76.22
<b>115.0</b>	13.39	12.36	11.33	18.54	19.57	22.66	40.17	42.23	49.44	53.56
<b>117.5</b>	11.33	10.30	9.27	15.45	17.51	18.54	22.66	37.08	49.44	45.32
<b>120.0</b>	9.27	9.27	7.21	11.33	15.45	16.48	17.51	20.60	30.90	37.08
<b>122.5</b>	7.21	7.21	5.15	8.24	13.39	14.42	15.45	16.48	18.54	19.57
<b>125.0</b>	6.18	6.18	4.12	7.21	12.36	13.39	13.39	14.42	15.45	15.45
<b>127.5</b>	5.15	5.15	4.12	5.15	9.27	12.36	12.36	13.39	13.39	13.39
<b>130.0</b>	4.12	4.12	3.09	4.12	7.21	10.30	11.33	11.33	12.36	12.36
<b>132.5</b>	3.09	3.09	3.09	3.09	5.15	9.27	10.30	10.30	11.33	11.33

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**CANDELA TABULATION - (Cont.)**

135.0	3.09	3.09	2.06	2.06	4.12	7.21	9.27	10.30	10.30	10.30
137.5	2.06	2.06	2.06	1.03	3.09	5.15	7.21	8.24	9.27	9.27
140.0	2.06	2.06	1.03	1.03	2.06	4.12	5.15	7.21	8.24	8.24
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	1277.20
2.5	1247.33
5.0	1245.27
7.5	1252.48
10.0	1299.86
12.5	1192.74
15.0	1292.65
17.5	1396.68
20.0	1334.88
22.5	1357.54
25.0	1429.64
27.5	1664.48
30.0	1521.31
32.5	1518.22
35.0	1574.87
37.5	1500.71
40.0	1694.35
42.5	1658.30
45.0	1701.56
47.5	1655.21
50.0	1670.66
52.5	1714.95
55.0	1615.04
57.5	1734.52
60.0	1939.49
62.5	1734.52
65.0	1687.14
67.5	1753.06
70.0	1582.08
72.5	1608.86
75.0	1700.53
77.5	1741.73
80.0	1676.84

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**CANDELA TABULATION - (Cont.)**

<b>82.5</b>	1603.71
<b>85.0</b>	1568.69
<b>87.5</b>	1537.79
<b>90.0</b>	1501.74
<b>92.5</b>	1513.07
<b>95.0</b>	1071.20
<b>97.5</b>	842.54
<b>100.0</b>	741.60
<b>102.5</b>	705.55
<b>105.0</b>	655.08
<b>107.5</b>	585.04
<b>110.0</b>	300.76
<b>112.5</b>	76.22
<b>115.0</b>	57.68
<b>117.5</b>	43.26
<b>120.0</b>	36.05
<b>122.5</b>	20.60
<b>125.0</b>	15.45
<b>127.5</b>	14.42
<b>130.0</b>	12.36
<b>132.5</b>	11.33
<b>135.0</b>	10.30
<b>137.5</b>	9.27
<b>140.0</b>	8.24
<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	485.65	N.A.	5.60
0-30	1095.32	N.A.	12.50
0-40	1935.21	N.A.	22.20
0-60	4134.71	N.A.	47.40
0-80	6572.27	N.A.	75.30
0-90	7668.94	N.A.	87.80
10-90	7546.85	N.A.	86.40
20-40	1449.56	N.A.	16.60
20-50	2487.09	N.A.	28.50
40-70	3439.63	N.A.	39.40
60-80	2437.56	N.A.	27.90
70-80	1197.43	N.A.	13.70
80-90	1096.66	N.A.	12.60
90-110	1010.79	N.A.	11.60
90-120	1046.73	N.A.	12.00
90-130	1057.53	N.A.	12.10
90-150	1062.91	N.A.	12.20
90-180	1062.91	N.A.	12.20
110-180	52.12	N.A.	0.60
0-180	8731.85	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	122.09
10-20	363.56
20-30	609.67
30-40	839.89
40-50	1037.53
50-60	1161.98
60-70	1240.13
70-80	1197.43
80-90	1096.66
90-100	720.44
100-110	290.35
110-120	35.93
120-130	10.80
130-140	5.01
140-150	0.37
150-160	0.00
160-170	0.00
170-180	0.00

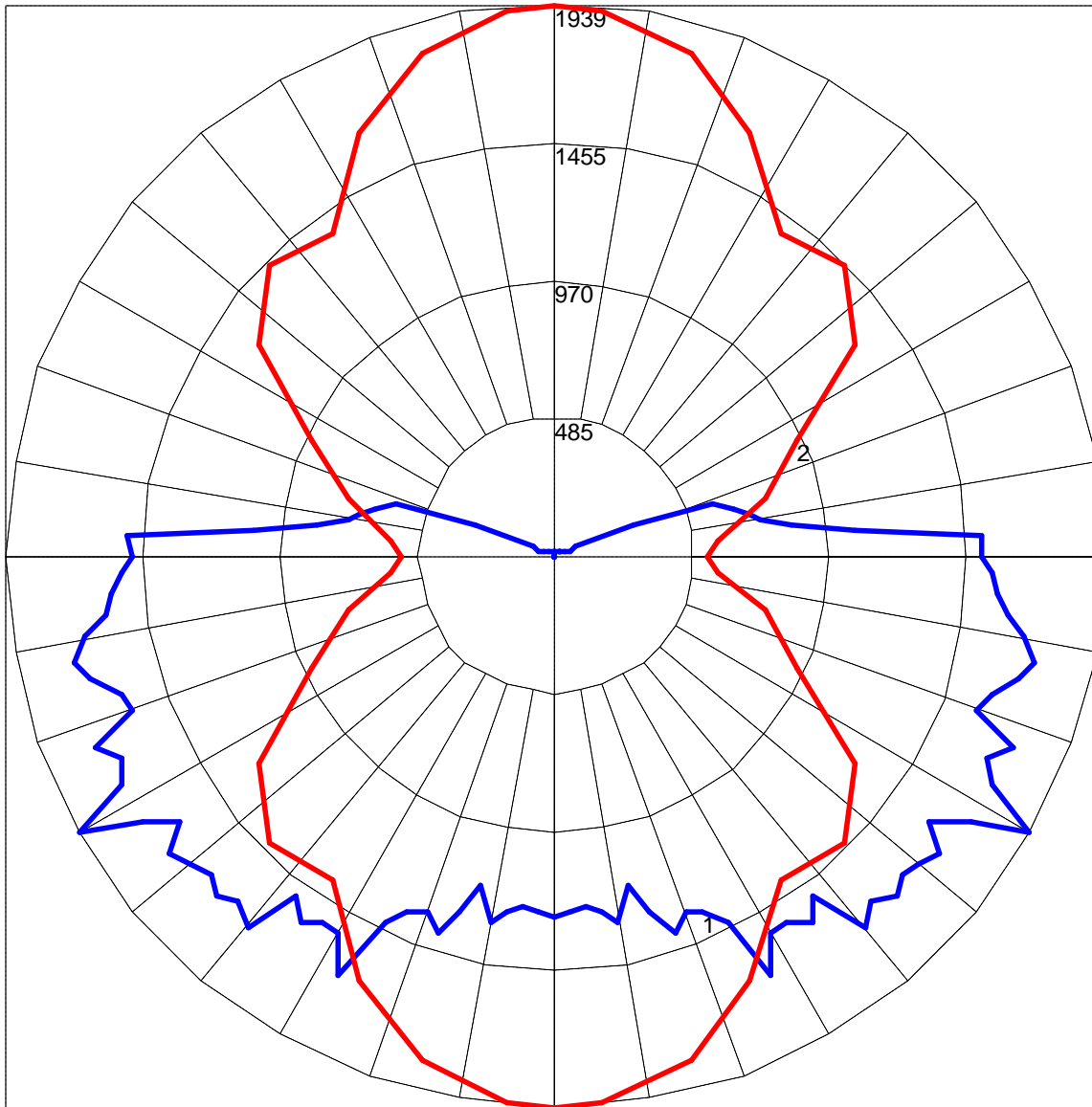
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	78	73	76	72	69	71	67	64	61
2	89	78	68	61	84	74	66	59	69	62	56	63	58	53	58	54	50	46
3	79	66	56	48	76	64	54	47	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	66	51	40	32	62	49	39	32	45	37	30	42	34	29	38	32	27	24
6	60	45	35	28	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	37	27	21	49	35	26	20	33	25	19	31	24	19	29	22	18	15
9	48	33	24	18	46	32	24	18	30	23	17	28	21	16	26	20	16	14
10	45	31	22	16	43	30	21	16	28	20	15	26	19	15	24	18	14	12

POLAR GRAPH



Maximum Candela = 1939.49 Located At Horizontal Angle = 90, Vertical Angle = 60  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)