



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-5081T
[TESTLAB]LSI INDUSTRIES, INC
[ISSUEDATE]01/29/14
[ISSUEDATE]04/19/16
[MANUFAC]LSI INDUSTRIES, INC
[LUMCAT]XLPG-LED-HO-CW
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[_ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED
[OTHER]SCALED FROM ORIGINAL TEST DATA
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] Indoor

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9922
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	79.2
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.76
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	6583	9458	11423
55	6246	11488	14697
65	5814	15190	20253
75	5368	23440	32363
85	5587	58228	84113

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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	1555.134	1555.134	1555.134	1555.134	1555.134	1555.134	1555.134	1555.134	1555.134	1555.134
2.5	1600.449	1597.359	1578.821	1572.642	1565.433	1552.044	1541.745	1533.506	1527.327	1520.118
5.0	1598.389	1594.270	1575.732	1570.582	1564.403	1552.044	1541.745	1535.566	1530.416	1523.207
7.5	1591.180	1588.090	1570.582	1566.463	1561.313	1552.044	1543.805	1539.685	1535.566	1530.416
10.0	1581.911	1578.821	1562.343	1559.253	1558.223	1552.044	1547.925	1546.895	1546.895	1541.745
12.5	1568.522	1565.433	1551.014	1552.044	1555.134	1553.074	1555.134	1558.223	1561.313	1558.223
15.0	1552.044	1548.954	1536.596	1541.745	1551.014	1556.164	1564.403	1571.612	1577.791	1575.732
17.5	1532.476	1528.357	1520.118	1530.416	1546.895	1559.253	1572.642	1585.001	1592.210	1592.210
20.0	1507.759	1504.669	1499.520	1517.028	1541.745	1561.313	1579.851	1597.359	1607.658	1609.718
22.5	1480.982	1477.892	1475.832	1501.580	1534.536	1561.313	1587.060	1609.718	1626.196	1630.316
25.0	1450.085	1445.965	1449.055	1484.071	1525.267	1559.253	1592.210	1627.226	1651.943	1659.153
27.5	1415.069	1411.979	1421.248	1465.533	1512.908	1555.134	1602.509	1648.854	1678.721	1687.990
30.0	1376.963	1373.873	1389.322	1441.846	1498.490	1553.074	1614.867	1668.422	1704.468	1715.797
32.5	1334.737	1332.678	1355.335	1415.069	1480.982	1554.104	1627.226	1689.020	1728.155	1744.634
35.0	1285.303	1288.392	1319.289	1386.232	1465.533	1554.104	1637.525	1707.558	1751.843	1770.381
37.5	1236.898	1241.017	1279.123	1355.335	1451.115	1553.074	1647.824	1724.036	1774.500	1794.068
40.0	1184.373	1190.553	1235.868	1320.319	1434.637	1549.984	1656.063	1740.514	1795.098	1816.726
42.5	1129.789	1134.939	1189.523	1284.273	1416.099	1545.865	1663.272	1755.962	1815.696	1838.354
45.0	1073.145	1079.325	1141.118	1251.316	1397.561	1541.745	1671.511	1772.441	1835.264	1858.951
47.5	1013.412	1019.591	1089.624	1216.300	1376.963	1536.596	1678.721	1786.859	1853.802	1880.579
50.0	952.648	958.828	1037.099	1180.254	1355.335	1531.446	1684.900	1800.248	1872.340	1901.177
52.5	889.825	897.034	980.455	1143.178	1333.707	1525.267	1689.020	1811.576	1889.848	1921.775
55.0	825.972	834.211	924.841	1105.072	1312.080	1519.088	1693.139	1822.905	1906.326	1941.343
57.5	759.029	772.417	872.317	1062.846	1290.452	1510.849	1695.199	1832.174	1918.685	1956.791
60.0	693.116	710.624	819.792	1023.711	1267.795	1501.580	1697.259	1839.383	1927.954	1965.030
62.5	629.263	648.831	767.268	984.575	1243.077	1491.281	1695.199	1842.473	1931.044	1969.150
65.0	566.439	584.977	714.744	946.469	1217.330	1479.952	1692.109	1841.443	1931.044	1969.150
67.5	504.646	522.154	665.309	908.363	1190.553	1465.533	1684.900	1837.324	1927.954	1966.060
70.0	443.883	461.391	616.904	869.227	1162.746	1449.055	1674.601	1828.055	1920.745	1959.881
72.5	383.119	401.657	567.469	829.061	1131.849	1427.427	1657.093	1813.636	1907.356	1947.522
75.0	320.296	343.983	522.154	787.866	1097.863	1398.591	1630.316	1790.979	1884.699	1925.894
77.5	260.562	289.399	476.839	741.521	1057.697	1361.515	1593.240	1753.903	1845.563	1886.758
80.0	204.948	237.905	431.524	695.176	1009.292	1311.050	1541.745	1700.348	1790.979	1834.234
82.5	155.513	190.530	386.209	645.741	951.618	1247.197	1474.802	1629.286	1724.036	1767.291
85.0	112.258	149.334	341.923	592.187	882.616	1169.955	1392.411	1542.775	1641.645	1689.020
87.5	79.302	117.407	298.668	535.543	807.434	1077.265	1299.721	1445.965	1545.865	1591.180
90.0	61.793	92.690	258.502	476.839	727.102	979.425	1186.433	1335.767	1432.577	1480.982
92.5	54.584	76.212	221.426	415.046	641.621	872.317	1060.787	1210.121	1304.871	1352.245
95.0	51.494	62.823	186.410	353.252	555.111	757.999	932.050	1074.175	1159.656	1204.971
97.5	47.375	52.524	151.394	298.668	471.690	647.801	808.464	938.230	1015.471	1057.697
100.0	43.255	45.315	119.467	246.144	392.388	544.812	686.937	803.314	880.556	920.722
102.5	39.136	39.136	92.690	197.739	317.206	449.032	573.649	671.488	749.760	788.896
105.0	35.016	35.016	71.062	157.573	253.353	358.402	467.570	554.081	623.083	662.219
107.5	30.897	30.897	53.554	123.587	200.829	284.250	367.671	443.883	501.556	533.483
110.0	26.777	26.777	41.196	94.750	158.603	224.516	285.280	348.103	394.448	418.135
112.5	23.687	23.687	31.927	72.092	125.647	175.081	223.486	270.861	301.758	322.356
115.0	20.598	20.598	24.717	55.614	98.869	138.005	175.081	208.038	233.785	248.203
117.5	17.508	17.508	18.538	43.255	76.212	110.198	138.005	162.723	181.261	192.589
120.0	15.448	14.418	14.418	33.986	60.764	87.541	110.198	127.706	142.125	150.364
122.5	13.389	12.359	11.329	26.777	47.375	70.033	88.571	101.959	112.258	119.467
125.0	11.329	11.329	10.299	20.598	38.106	55.614	71.062	82.391	91.660	95.780
127.5	9.269	9.269	8.239	14.418	29.867	45.315	57.674	67.973	74.152	78.272
130.0	8.239	8.239	7.209	11.329	23.687	36.046	47.375	55.614	60.764	63.853
132.5	7.209	7.209	6.179	7.209	18.538	29.867	38.106	45.315	50.465	53.554

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CANDELA TABULATION - (Cont.)

135.0	6.179	6.179	5.149	5.149	13.389	23.687	31.927	37.076	42.225	44.285
137.5	5.149	5.149	4.120	4.120	9.269	18.538	25.747	30.897	35.016	37.076
140.0	4.120	4.120	4.120	3.090	6.179	13.389	20.598	25.747	28.837	30.897
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles

	<u>90</u>
0.0	1555.134
2.5	1519.088
5.0	1521.147
7.5	1528.357
10.0	1540.715
12.5	1556.164
15.0	1574.702
17.5	1591.180
20.0	1608.688
22.5	1630.316
25.0	1659.153
27.5	1687.990
30.0	1716.827
32.5	1743.604
35.0	1768.321
37.5	1793.038
40.0	1816.726
42.5	1840.413
45.0	1862.041
47.5	1882.639
50.0	1904.267
52.5	1924.864
55.0	1943.402
57.5	1958.851
60.0	1968.120
62.5	1973.269
65.0	1973.269
67.5	1970.179
70.0	1964.000
72.5	1952.671
75.0	1931.044
77.5	1894.997
80.0	1842.473

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82.5	1769.351
85.0	1690.049
87.5	1596.329
90.0	1486.131
92.5	1358.425
95.0	1214.240
97.5	1071.086
100.0	919.692
102.5	787.866
105.0	660.159
107.5	537.603
110.0	424.315
112.5	328.535
115.0	253.353
117.5	193.619
120.0	150.364
122.5	119.467
125.0	96.810
127.5	79.302
130.0	64.883
132.5	53.554
135.0	44.285
137.5	37.076
140.0	30.897
142.5	0.000
145.0	0.000
147.5	0.000
150.0	0.000
152.5	0.000
155.0	0.000
157.5	0.000
160.0	0.000
162.5	0.000
165.0	0.000
167.5	0.000
170.0	0.000
172.5	0.000
175.0	0.000
177.5	0.000
180.0	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	589.92	N.A.	5.90
0-30	1309.55	N.A.	13.20
0-40	2277.3	N.A.	23.00
0-60	4742.06	N.A.	47.80
0-80	7435.67	N.A.	74.90
0-90	8567.8	N.A.	86.30
10-90	8419.42	N.A.	84.90
20-40	1687.38	N.A.	17.00
20-50	2851.99	N.A.	28.70
40-70	3827.71	N.A.	38.60
60-80	2693.61	N.A.	27.10
70-80	1330.66	N.A.	13.40
80-90	1132.13	N.A.	11.40
90-110	1144.44	N.A.	11.50
90-120	1284.84	N.A.	12.90
90-130	1334.61	N.A.	13.50
90-150	1354.65	N.A.	13.70
90-180	1354.65	N.A.	13.70
110-180	210.21	N.A.	2.10
0-180	9922.45	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	148.38
10-20	441.54
20-30	719.63
30-40	967.75
40-50	1164.61
50-60	1300.15
60-70	1362.95
70-80	1330.66
80-90	1132.13
90-100	763.69
100-110	380.75
110-120	140.40
120-130	49.77
130-140	18.73
140-150	1.31
150-160	0.00
160-170	0.00
170-180	0.00

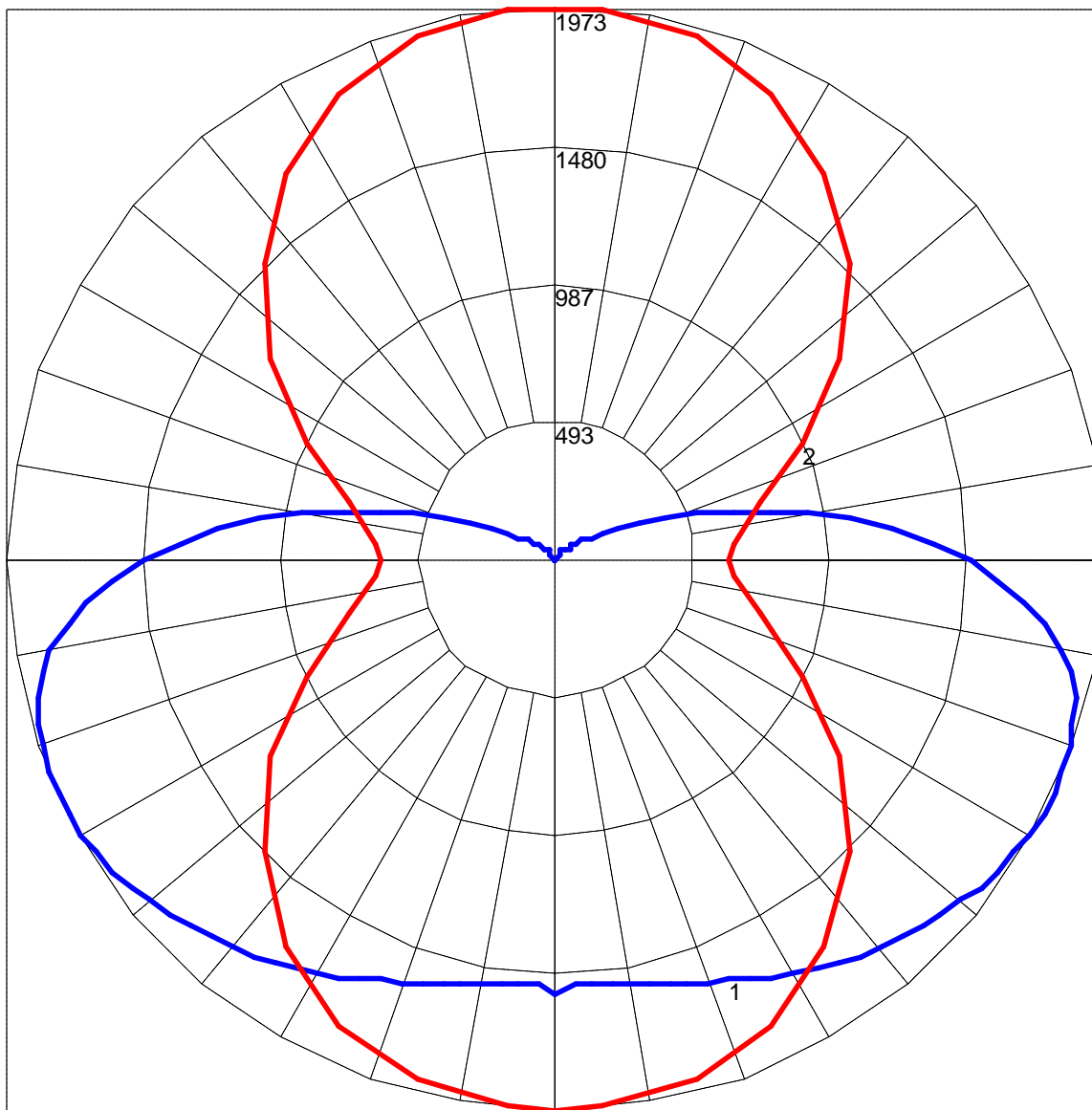
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	96	96	96	90	90	90	86
1	100	93	87	81	96	89	84	79	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	50	46
3	80	67	57	49	76	64	55	47	59	51	45	54	48	42	50	44	40	37
4	72	58	48	40	69	56	46	39	51	43	37	47	40	35	44	38	33	30
5	66	51	41	33	63	49	40	33	45	37	31	42	35	29	39	33	28	25
6	61	46	36	28	58	44	35	28	41	32	26	38	30	25	35	28	24	21
7	56	41	31	25	53	39	30	24	37	29	23	34	27	22	31	25	21	18
8	52	37	28	22	49	36	27	21	33	26	20	31	24	19	29	23	18	16
9	48	34	25	19	46	33	24	19	30	23	18	28	22	17	26	21	16	14
10	45	31	23	17	43	30	22	17	28	21	16	26	20	15	24	19	15	13

POLAR GRAPH



Maximum Candela = 1973.269 Located At Horizontal Angle = 90, Vertical Angle = 62.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (62.5) (Through Max. Cd.)