



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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-5082A
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]01/29/14
[ISSUE DATE]04/19/16
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMEN CATEGORY]XLPG-LED-HO-CW-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	10170
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	79.2
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.90
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	6312	9705	12175
55	5787	12938	14426
65	5085	16005	20139
75	4057	24219	32504
85	4050	66384	89144

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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	1500.681	1500.681	1500.681	1500.681	1500.681	1500.681	1500.681	1500.681	1500.681	1500.681
2.5	1547.030	1542.910	1524.370	1519.220	1513.041	1499.651	1487.291	1481.111	1474.931	1467.721
5.0	1544.970	1541.880	1523.340	1519.220	1515.100	1500.681	1490.381	1482.141	1476.991	1470.811
7.5	1538.790	1535.700	1518.190	1515.100	1506.861	1494.501	1488.321	1484.201	1484.201	1480.081
10.0	1530.550	1526.430	1513.041	1505.831	1503.771	1501.711	1512.011	1520.250	1503.771	1485.231
12.5	1516.130	1512.011	1500.681	1499.651	1509.951	1532.610	1480.081	1476.991	1483.171	1482.141
15.0	1500.681	1497.591	1483.171	1490.381	1530.550	1481.111	1493.471	1470.811	1490.381	1520.250
17.5	1480.081	1476.991	1463.602	1492.441	1470.811	1479.051	1499.651	1572.779	1597.499	1585.139
20.0	1457.422	1454.332	1446.092	1495.531	1466.691	1490.381	1587.199	1564.540	1600.589	1609.859
22.5	1429.612	1428.582	1425.492	1428.582	1433.732	1564.540	1557.330	1610.889	1604.709	1601.619
25.0	1396.653	1399.743	1404.893	1412.103	1503.771	1533.640	1586.169	1591.319	1640.758	1715.947
27.5	1361.633	1363.693	1393.563	1385.323	1530.550	1570.719	1573.809	1730.366	1739.636	1833.364
30.0	1324.554	1328.674	1377.083	1352.364	1480.081	1528.490	1697.407	1853.964	1812.765	1784.955
32.5	1282.325	1289.535	1304.985	1417.252	1498.621	1562.480	1815.855	1755.086	1801.435	1808.645
35.0	1240.096	1242.156	1256.576	1414.162	1453.302	1633.548	1718.007	1774.655	1780.835	1782.895
37.5	1191.687	1194.777	1215.376	1350.304	1456.392	1710.797	1731.396	1744.786	1823.065	1830.274
40.0	1140.188	1146.368	1170.057	1347.214	1555.270	1621.188	1690.197	1793.195	1853.964	1934.302
42.5	1089.719	1088.689	1120.618	1278.205	1631.488	1625.308	1726.246	1870.444	1931.212	1943.572
45.0	1028.950	1036.160	1126.798	1257.606	1506.861	1582.049	1774.655	1890.013	1947.692	1985.801
47.5	971.271	977.451	1137.098	1269.965	1494.501	1601.619	1812.765	1922.973	1871.474	1882.803
50.0	905.352	917.712	1070.149	1268.935	1429.612	1705.647	1834.394	1812.765	1918.853	1966.232
52.5	834.284	859.003	1018.650	1320.434	1413.132	1684.017	1721.096	1892.073	1904.433	1892.073
55.0	765.275	799.264	941.402	1214.346	1435.792	1710.797	1783.925	1808.645	1884.863	1905.463
57.5	697.296	750.855	857.973	1173.147	1479.051	1595.439	1713.887	1815.855	1941.512	2000.221
60.0	628.288	693.177	856.943	1106.198	1520.250	1634.578	1689.167	1903.403	2098.069	2171.198
62.5	562.369	597.388	829.134	1073.239	1366.783	1508.921	1782.895	2086.739	2007.431	1989.921
65.0	495.420	517.050	870.333	1142.248	1375.023	1559.390	1976.532	1879.713	1925.033	1959.022
67.5	427.442	431.562	730.256	1135.038	1227.736	1806.585	1748.906	1871.474	1936.362	1957.992
70.0	365.643	374.913	638.588	1078.389	1349.274	1593.379	1757.146	1844.694	1828.214	1807.615
72.5	302.814	344.013	565.459	878.573	1465.661	1601.619	1675.777	1673.717	1800.405	1857.054
75.0	242.045	293.544	657.127	965.091	1317.344	1445.062	1594.409	1761.266	1866.324	1943.572
77.5	190.546	208.056	556.189	991.871	1185.507	1404.893	1630.458	1864.264	1961.082	2000.221
80.0	145.227	173.037	396.542	902.262	1116.498	1474.931	1706.677	1790.105	1856.024	1896.193
82.5	109.178	158.617	509.840	741.586	1200.957	1453.302	1619.128	1727.276	1792.165	1832.334
85.0	81.368	123.598	326.504	805.444	1136.068	1333.824	1519.220	1658.268	1748.906	1788.045
87.5	62.829	95.788	356.373	691.117	1020.710	1282.325	1481.111	1622.218	1716.977	1762.296
90.0	49.439	79.308	295.604	630.348	962.001	1224.646	1432.702	1563.510	1660.328	1708.737
92.5	40.169	65.919	201.876	490.270	856.943	1212.286	1474.931	1615.009	1712.857	1762.296
95.0	37.079	53.559	158.617	344.013	552.069	760.125	946.552	1054.699	1132.978	1176.237
97.5	36.049	43.259	85.488	300.754	478.941	632.408	762.185	863.123	923.892	960.971
100.0	35.019	37.079	62.829	97.848	437.741	580.909	699.356	776.605	828.104	857.973
102.5	32.959	32.959	47.379	67.979	113.298	567.519	629.318	735.406	792.055	818.834
105.0	29.869	28.839	37.079	49.439	73.129	128.747	579.879	699.356	719.956	749.825
107.5	26.779	24.720	28.839	37.079	60.769	76.219	115.358	339.893	672.577	737.466
110.0	22.660	21.630	21.630	30.899	37.079	50.469	77.248	91.668	138.017	172.007
112.5	19.570	18.540	17.510	26.779	28.839	49.439	46.349	75.189	82.398	87.548
115.0	16.480	15.450	13.390	22.660	23.690	27.809	54.589	46.349	55.619	67.979
117.5	14.420	13.390	11.330	18.540	21.630	22.660	26.779	50.469	55.619	48.409
120.0	11.330	11.330	9.270	14.420	19.570	19.570	20.600	24.720	35.019	46.349
122.5	10.300	9.270	7.210	11.330	17.510	17.510	18.540	19.570	21.630	23.690
125.0	8.240	8.240	6.180	9.270	14.420	16.480	16.480	17.510	18.540	19.570
127.5	7.210	7.210	5.150	7.210	12.360	14.420	15.450	15.450	16.480	16.480
130.0	6.180	6.180	5.150	6.180	9.270	13.390	13.390	14.420	14.420	15.450
132.5	5.150	5.150	4.120	4.120	7.210	11.330	13.390	13.390	13.390	14.420

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CANDELA TABULATION - (Cont.)

135.0	4.120	4.120	4.120	3.090	6.180	9.270	11.330	12.360	12.360	12.360
137.5	4.120	4.120	3.090	2.060	5.150	7.210	9.270	11.330	11.330	12.360
140.0	3.090	3.090	3.090	2.060	3.090	5.150	7.210	9.270	10.300	10.300
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	1500.681
2.5	1464.631
5.0	1467.721
7.5	1480.081
10.0	1478.021
12.5	1483.171
15.0	1531.580
17.5	1573.809
20.0	1612.949
22.5	1597.499
25.0	1709.767
27.5	1841.604
30.0	1783.925
32.5	1805.555
35.0	1776.715
37.5	1836.454
40.0	1941.512
42.5	1944.602
45.0	1984.771
47.5	1885.893
50.0	1968.292
52.5	1896.193
55.0	1907.523
57.5	2001.251
60.0	2182.528
62.5	1988.891
65.0	1962.112
67.5	1968.292
70.0	1815.855
72.5	1861.174
75.0	1939.452
77.5	2000.221
80.0	1906.493

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82.5	1831.304
85.0	1791.135
87.5	1775.685
90.0	1722.126
92.5	1773.625
95.0	1179.327
97.5	956.851
100.0	855.913
102.5	822.954
105.0	762.185
107.5	767.335
110.0	192.606
112.5	87.548
115.0	66.949
117.5	48.409
120.0	47.379
122.5	24.720
125.0	19.570
127.5	17.510
130.0	15.450
132.5	14.420
135.0	12.360
137.5	12.360
140.0	10.300
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	570.72	N.A.	5.60
0-30	1285.69	N.A.	12.60
0-40	2271.78	N.A.	22.30
0-60	4835.06	N.A.	47.50
0-80	7663.7	N.A.	75.40
0-90	8933.52	N.A.	87.80
10-90	8790.07	N.A.	86.40
20-40	1701.06	N.A.	16.70
20-50	2912.03	N.A.	28.60
40-70	4003.06	N.A.	39.40
60-80	2828.64	N.A.	27.80
70-80	1388.86	N.A.	13.70
80-90	1269.83	N.A.	12.50
90-110	1175.89	N.A.	11.60
90-120	1216.23	N.A.	12.00
90-130	1229.61	N.A.	12.10
90-150	1236.7	N.A.	12.20
90-180	1236.7	N.A.	12.20
110-180	60.81	N.A.	0.60
0-180	10170.22	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	143.45
10-20	427.27
20-30	714.97
30-40	986.09
40-50	1210.97
50-60	1352.31
60-70	1439.78
70-80	1388.86
80-90	1269.83
90-100	836.74
100-110	339.16
110-120	40.34
120-130	13.38
130-140	6.58
140-150	0.51
150-160	0.00
160-170	0.00
170-180	0.00

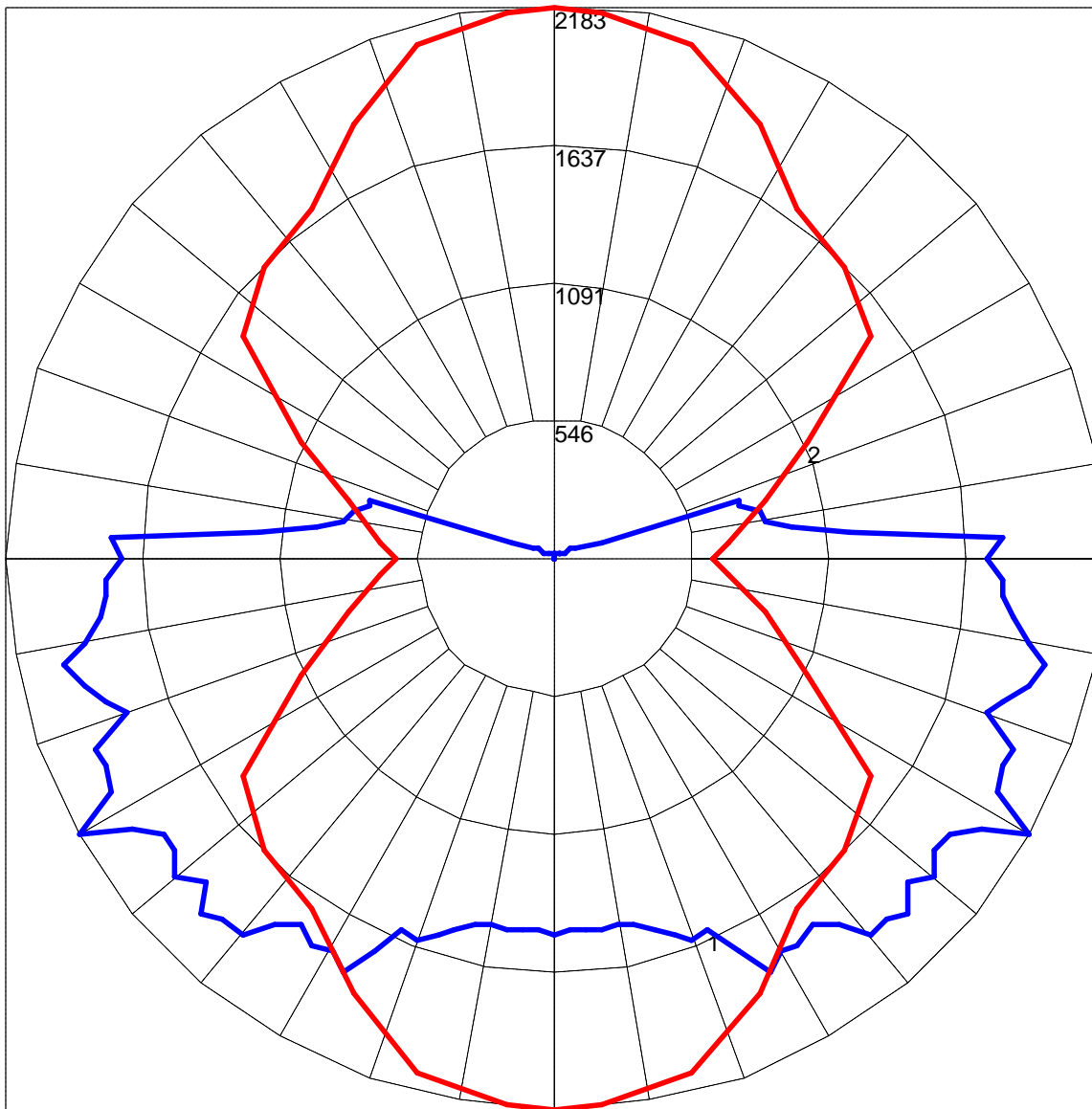
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	69	61	85	75	66	59	69	62	56	63	58	53	59	54	50	46
3	79	66	56	48	76	64	54	47	59	51	44	54	48	42	50	44	40	37
4	72	58	47	39	68	55	46	38	51	43	36	47	40	34	44	37	33	30
5	66	51	40	33	62	49	39	32	45	37	30	42	34	29	39	32	27	25
6	60	45	35	28	57	43	34	27	40	32	26	37	30	25	35	28	23	21
7	56	40	31	24	53	39	30	23	36	28	22	34	27	21	31	25	20	18
8	51	37	27	21	49	35	27	20	33	25	20	31	24	19	29	22	18	16
9	48	33	24	18	46	32	24	18	30	23	17	28	21	17	26	20	16	14
10	45	31	22	16	43	30	22	16	28	20	15	26	19	15	24	18	14	12

POLAR GRAPH



Maximum Candela = 2182.528 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.)