



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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-5086A
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]01/30/14
[TEST DATE]04/19/16
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMEN CATEGORY]XLPG-LED-HO-NW
[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	8529
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	79.1
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	5610	8089	9828
55	5310	9840	12701
65	4963	13016	17566
75	4579	20096	28148
85	4772	49927	73376

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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	1324.835	1324.835	1324.835	1324.835	1324.835	1324.835	1324.835	1324.835	1324.835	1324.835
2.5	1364.013	1360.920	1344.424	1340.300	1334.114	1322.773	1313.494	1307.308	1302.153	1295.967
5.0	1361.951	1357.827	1342.362	1337.207	1332.052	1321.742	1313.494	1307.308	1302.153	1296.998
7.5	1356.796	1352.672	1337.207	1334.114	1329.990	1321.742	1315.556	1311.432	1308.339	1303.184
10.0	1348.548	1344.424	1329.990	1327.928	1326.897	1320.711	1318.649	1317.618	1316.587	1312.463
12.5	1337.207	1334.114	1320.711	1321.742	1323.804	1322.773	1324.835	1327.928	1329.990	1327.928
15.0	1322.773	1319.680	1308.339	1312.463	1320.711	1325.866	1333.083	1340.300	1345.455	1344.424
17.5	1306.277	1303.184	1293.905	1303.184	1317.618	1328.959	1341.331	1352.672	1359.889	1359.889
20.0	1285.657	1282.564	1276.378	1291.843	1313.494	1332.052	1348.548	1364.013	1372.261	1374.323
22.5	1261.944	1258.851	1255.758	1279.471	1308.339	1332.052	1353.703	1373.292	1387.726	1392.881
25.0	1234.107	1233.076	1235.138	1264.006	1301.122	1331.021	1358.858	1389.788	1411.439	1418.656
27.5	1205.239	1203.177	1210.394	1248.541	1291.843	1326.897	1369.168	1408.346	1434.121	1444.431
30.0	1172.247	1170.185	1183.588	1228.952	1278.440	1325.866	1380.509	1426.904	1457.834	1470.206
32.5	1136.162	1135.131	1153.689	1208.332	1262.975	1326.897	1390.819	1445.462	1480.516	1493.919
35.0	1096.984	1096.984	1122.759	1183.588	1249.572	1326.897	1401.129	1461.958	1502.167	1516.601
37.5	1055.744	1056.775	1088.736	1156.782	1237.200	1326.897	1409.377	1477.423	1521.756	1539.283
40.0	1009.349	1013.473	1052.651	1126.883	1223.797	1324.835	1417.625	1492.888	1541.345	1560.934
42.5	962.954	967.078	1013.473	1095.953	1208.332	1321.742	1424.842	1507.322	1560.934	1580.523
45.0	914.497	918.621	973.264	1067.085	1191.836	1318.649	1432.059	1521.756	1579.492	1601.143
47.5	863.978	868.102	928.931	1037.186	1175.340	1314.525	1439.276	1536.190	1597.019	1620.732
50.0	812.428	816.552	883.567	1007.287	1157.813	1310.401	1446.493	1548.562	1613.515	1641.352
52.5	757.785	763.971	836.141	974.295	1138.224	1306.277	1450.617	1558.872	1630.011	1658.879
55.0	702.111	711.390	788.715	942.334	1119.666	1301.122	1454.741	1570.213	1644.445	1677.437
57.5	647.468	656.747	742.320	908.311	1101.108	1293.905	1456.803	1578.461	1656.817	1690.840
60.0	590.763	604.166	697.987	875.319	1081.519	1286.688	1457.834	1584.647	1666.096	1700.119
62.5	537.151	551.585	653.654	841.296	1060.899	1277.409	1457.834	1588.771	1670.220	1706.305
65.0	483.539	499.004	610.352	808.304	1039.248	1268.130	1454.741	1588.771	1671.251	1707.336
67.5	430.958	447.454	567.050	775.312	1015.535	1255.758	1449.586	1585.678	1669.189	1706.305
70.0	378.377	393.842	525.810	742.320	991.822	1242.355	1440.307	1579.492	1665.065	1702.181
72.5	324.765	343.323	484.570	707.266	966.047	1223.797	1426.904	1568.151	1655.786	1692.902
75.0	273.215	293.835	445.392	671.181	936.148	1199.053	1405.253	1547.531	1636.197	1675.375
77.5	221.665	245.378	406.214	635.096	902.125	1167.092	1373.292	1516.601	1604.236	1643.414
80.0	175.270	201.045	367.036	595.918	860.885	1124.821	1328.959	1473.299	1557.841	1597.019
82.5	132.999	161.867	328.889	551.585	812.428	1070.178	1271.223	1410.408	1495.981	1539.283
85.0	95.883	128.875	291.773	505.190	754.692	1003.163	1199.053	1337.207	1424.842	1468.144
87.5	67.015	100.007	254.657	456.733	688.708	926.869	1116.573	1253.696	1342.362	1386.695
90.0	51.550	78.356	220.634	407.245	620.662	841.296	1022.752	1156.782	1247.510	1289.781
92.5	46.395	63.922	188.673	354.664	548.492	748.506	917.590	1046.465	1135.131	1178.433
95.0	43.302	53.612	158.774	304.145	472.198	651.592	808.304	927.900	1009.349	1050.589
97.5	40.209	44.333	130.937	256.719	403.121	557.771	696.956	809.335	884.598	920.683
100.0	37.116	39.178	103.100	212.386	336.106	469.105	594.887	696.956	766.033	803.149
102.5	34.023	34.023	80.418	169.084	273.215	384.563	493.849	586.639	648.499	686.646
105.0	30.930	29.899	61.860	136.092	218.572	311.362	402.090	481.477	539.213	571.174
107.5	26.806	26.806	47.426	106.193	173.208	246.409	318.579	385.594	438.175	463.950
110.0	23.713	23.713	36.085	83.511	137.123	193.828	249.502	303.114	344.354	367.036
112.5	20.620	20.620	27.837	63.922	109.286	153.619	195.890	235.068	265.998	284.556
115.0	18.558	17.527	21.651	49.488	85.573	121.658	153.619	183.518	205.169	219.603
117.5	15.465	15.465	16.496	38.147	67.015	95.883	121.658	143.309	158.774	170.115
120.0	13.403	13.403	13.403	29.899	52.581	76.294	96.914	113.410	125.782	131.968
122.5	12.372	11.341	10.310	23.713	42.271	61.860	77.325	89.697	100.007	105.162
125.0	10.310	10.310	9.279	17.527	32.992	49.488	62.891	73.201	80.418	84.542
127.5	9.279	9.279	8.248	13.403	26.806	40.209	51.550	59.798	65.984	69.077
130.0	8.248	8.248	7.217	10.310	21.651	32.992	42.271	49.488	54.643	56.705
132.5	6.186	6.186	6.186	7.217	16.496	25.775	34.023	40.209	44.333	47.426

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CANDELA TABULATION - (Cont.)

135.0	6.186	6.186	5.155	5.155	12.372	20.620	27.837	32.992	37.116	39.178
137.5	5.155	5.155	4.124	4.124	8.248	16.496	22.682	27.837	30.930	32.992
140.0	4.124	4.124	4.124	3.093	6.186	12.372	18.558	22.682	25.775	26.806
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	1324.835
2.5	1293.905
5.0	1295.967
7.5	1301.122
10.0	1311.432
12.5	1325.866
15.0	1343.393
17.5	1358.858
20.0	1372.261
22.5	1391.850
25.0	1418.656
27.5	1444.431
30.0	1470.206
32.5	1493.919
35.0	1516.601
37.5	1539.283
40.0	1559.903
42.5	1580.523
45.0	1602.174
47.5	1621.763
50.0	1643.414
52.5	1661.972
55.0	1679.499
57.5	1693.933
60.0	1704.243
62.5	1709.398
65.0	1711.460
67.5	1710.429
70.0	1706.305
72.5	1697.026
75.0	1679.499
77.5	1648.569
80.0	1603.205

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82.5	1543.407
85.0	1474.330
87.5	1388.757
90.0	1293.905
92.5	1181.526
95.0	1056.775
97.5	928.931
100.0	811.397
102.5	688.708
105.0	576.329
107.5	464.981
110.0	368.067
112.5	287.649
115.0	221.665
117.5	172.177
120.0	132.999
122.5	106.193
125.0	84.542
127.5	70.108
130.0	57.736
132.5	47.426
135.0	39.178
137.5	32.992
140.0	26.806
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	502.69	N.A.	5.90
0-30	1116.76	N.A.	13.10
0-40	1943.86	N.A.	22.80
0-60	4057.34	N.A.	47.60
0-80	6376.72	N.A.	74.80
0-90	7353.85	N.A.	86.20
10-90	7227.47	N.A.	84.70
20-40	1441.17	N.A.	16.90
20-50	2438.7	N.A.	28.60
40-70	3285.8	N.A.	38.50
60-80	2319.39	N.A.	27.20
70-80	1147.07	N.A.	13.40
80-90	977.13	N.A.	11.50
90-110	990.26	N.A.	11.60
90-120	1113.42	N.A.	13.10
90-130	1157.54	N.A.	13.60
90-150	1175.48	N.A.	13.80
90-180	1175.48	N.A.	13.80
110-180	185.23	N.A.	2.20
0-180	8529.33	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	126.38
10-20	376.31
20-30	614.07
30-40	827.10
40-50	997.53
50-60	1115.95
60-70	1172.32
70-80	1147.07
80-90	977.13
90-100	660.21
100-110	330.05
110-120	123.17
120-130	44.11
130-140	16.76
140-150	1.18
150-160	0.00
160-170	0.00
170-180	0.00

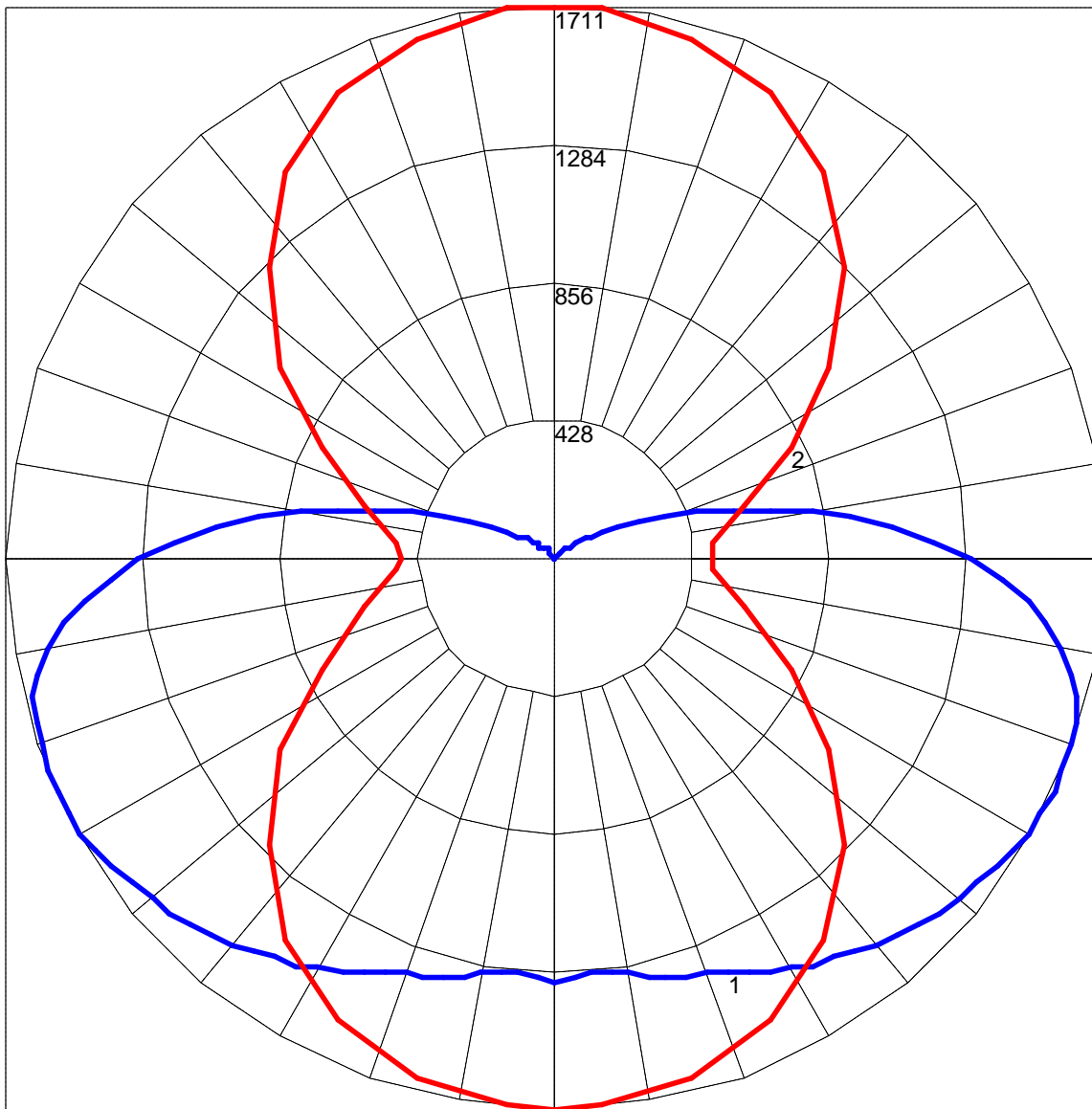
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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	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	43	38	33	30
5	66	51	41	33	63	49	40	32	45	37	31	42	35	29	38	32	28	25
6	60	46	36	28	57	44	34	28	40	32	26	37	30	25	35	28	24	21
7	56	41	31	24	53	39	30	24	37	29	23	34	27	22	31	25	21	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 = 1711.46 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.)