IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-15L-SIL-3-40-70CRI.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-12570
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUEDATE] 03/30/21
[TESTDATE] 03/05/21
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] MPP-LED-15L-SIL-3-40-70CRI
[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] Outdoor
[_SEARCH_COLORTEMP] 4000

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	15812
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	155
Total Luminaire Watts	102
Ballast Factor	1.00
Upward Waste Light Ratio	0.04
Maximum Candela	11819.041
Maximum Candela Angle	50H 65V
Maximum Candela (<90 Degrees Vertical)	11819.041
Maximum Candela Angle (<90 Degrees Vertical)	50H 65V
Maximum Candela At 90 Degrees Vertical	232.435 (1.5% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	897.538 (5.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	617.4	N.A.	3.9
FM - Front-Medium (30-60)	5907.0	N.A.	37.4
FH - Front-High (60-80)	4742.2	N.A.	30.0
FVH - Front-Very High (80-90)	186.5	N.A.	1.2
BL - Back-Low (0-30)	564.7	N.A.	3.6
BM - Back-Medium (30-60)	1965.7	N.A.	12.4
BH - Back-High (60-80)	1063.1	N.A.	6.7
BVH - Back-Very High (80-90)	168.7	N.A.	1.1
UL - Uplight-Low (90-100)	178.5	N.A.	1.1
UH - Uplight-High (100-180)	417.9	N.A.	2.6
Total	15811.7	N.A.	100.0
BUG Rating	B3-U3-G3		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	5	15	25	35	45	50	55	65	75
0.0	952.572	952.572	952.572	952.572	952.572	952.572	952.572	952.572	952.572	952.572
2.5	968.380	967.795	973.650	981.261	980.090	976.577	968.380	975.406	963.697	956.671
5.0	929.739	932.081	938.521	966.038	981.846	987.116	984.774	991.799	989.458	984.188
7.5	919.200	925.640	908.662	925.640	927.982	932.081	945.547	971.308	990.043	992.970
10.0	905.149	903.392	915.687	921.542	936.765	944.376	947.889	944.376	986.530	1004.680
12.5	927.982	942.034	945.547	948.474	947.889	946.132	955.500	970.722	977.162	1073.181
15.0	959.013	962.526	975.406	973.064	1004.094	993.556	988.872	1004.094	1049.762	1099.527
17.5	1067.912	1070.253	1091.916	1067.912	1076.108	1112.993	1121.776	1090.745	1134.071	1153.391
20.0	1182.080	1200.815	1225.991	1219.550	1269.901	1217.794	1244.726	1268.145	1264.632	1242.969
22.5	1442.617	1467.793	1499.994	1495.310	1479.502	1476.575	1442.617	1449.643	1432.079	1433.835
25.0	1838.400	1882.311	1813.225	1779.267	1819.665	1749.993	1726.574	1679.150	1686.762	1600.111
27.5	2347.766	2401.630	2338.984	2253.504	2145.776	2157.486	2036.877	1984.184	1921.538	1802.686
30.0	2916.851	2967.787	2912.167	2705.493	2603.620	2485.353	2430.904	2319.078	2132.896	2074.933
32.5	3281.018	3287.458	3286.287	3275.748	3059.707	2896.359	2727.156	2677.976	2394.604	2236.525
35.0	3639.916	3594.834	3588.979	3636.403	3619.424	3324.343	3143.430	2984.766	2607.133	2399.874
37.5	3979.493	3945.535	3917.432	3991.788	4031.600	3867.081	3604.787	3319.659	2876.453	2531.606
40.0	4416.845	4343.075	4345.416	4403.964	4445.533	4369.421	4097.759	3663.920	3128.208	2612.988
42.5	4902.791	4813.799	4852.440	4947.288	4903.962	4777.499	4617.078	4090.734	3338.395	2745.891
45.0	5521.056	5460.166	5531.009	5619.416	5488.269	5177.380	4998.224	4592.488	3455.490	2877.038
47.5	6278.079	6303.254	6323.746	6460.748	6234.753	5660.400	5386.982	4971.292	3703.147	3057.951
50.0	7114.141	7143.415	7127.607	7340.721	7111.799	6310.866	5862.975	5303.844	4060.289	3350.690
52.5	8122.334	8183.224	8034.512	8173.270	8001.725	7207.232	6484.752	5769.884	4583.120	3704.904
55.0	9167.412	9279.238	9255.819	9328.418	9066.710	8119.407	7320.815	6405.713	5250.565	3992.373
57.5	9089.543	9100.667	9426.193	10238.83	610395.74	49302.657	8276.900	7391.658	5894.591	4472.465
60.0	8173.270	8187.322	8538.023	9718.346	10995.85	910697.85	19765.185	8545.049	6809.107	5224.219
62.5	5769.884	6060.281	6950.793	8571.395	10193.75	411656.86	411269.27	79827.831	7776.902	6104.777
65.0	2261.115	2486.524	3588.979	6430.303	9114.133	11244.10	211819.04	111254.64	08872.916	6968.943
67.5	1046.834	1078.450	1474.233	2839.567	7265.194	10185.55	811245.27	311715.99	79250.550	6991.191
70.0	764.049	788.639	960.184	1531.610	3618.253	8685.564	10005.81	610748.78	79598.909	6519.296
72.5	581.965	598.358	749.997	1081.378	2060.296	5131.128	7319.058	8479.475	8551.489	4867.077
75.0	437.352	457.258	600.700	865.336	1320.253	2242.380	3536.286	4992.369	5104.781	2744.720
77.5	334.893	355.971	477.750	717.210	973.650	1308.543	1516.388	1710.181	1966.035	866.507
80.0	254.683	286.884	388.757	586.063	738.873	867.678	897.538	868.264	725.407	569.084
82.5	197.892	233.606	320.842	486.532	543.323	561.473	548.007	557.375	503.511	449.061
85.0	180.913	227.165	252.926	367.095	380.561	402.223	358.312	350.116	353.043	356.556
87.5	121.194	149.297	187.938	261.123	218.969	257.025	238.875	224.823	242.388	268.149
90.0	58.548	71.428	105.386	123.536	143.442	162.177	169.203	176.229	190.866	206.088
92.5	68.501	73.185	106.557	123.536	141.686	162.763	165.690	173.301	187.938	199.062
95.0	77.869	75.527	108.313	125.292	141.686	161.006	164.519	169.203	186.182	190.866
97.5	84.894	77.283	108.313	126.463	141.686	158.079	162.763	162.763	178.571	161.592
100.0	89.578	79.625	107.728	127.049	141.100	155.737	159.835	156.323	163.934	127.634
102.5	92.505	82.552	106.557	127.634	141.100	152.810	155.737	149.882	142.857	102.459
105.0	94.262	86.065	104.801	128.220	140.515	148.711	148.711	137.002	121.779	94.262
107.5	95.433	89.578	102.459	128.220	138.758	141.686	136.416	120.023	102.459	88.407
110.0	96.018	91.920	100.117	127.049	135.831	129.391	120.608	104.215	88.407	84.894
112.5	95.433	93.676	97.775	125.292	129.976	115.339	105.386	92.505	79.040	81.381
115.0	95.433	94.262	96.018	120.608	120.023	103.044	94.262	84.894	73.770	78.454
117.5	95.433	94.847	94.262	112.997	108.313	93.676	87.236	80.210	70.843	76.698
120.0	95.433	94.262	90.749	101.873	98.946	87.822	82.552	76.698	69.672	74.941
122.5	93.676	92.505	85.480	91.920	91.920	84.309	79.625	74.941	69.086	72.599
125.0	89.578	88.407	80.796	83.723	86.651	81.381	77.869	74.356	69.086	71.428
127.5	84.894	83.723	77.283	77.869	82.552	79.625	77.869	74.941	70.257	72.014
130.0	80.210	79.040	75.527	74.356	79.625	79.625	78.454	75.527	71.428	73.185

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CANDELA TABULATION - (Cont.)

132.5	77.869	77.283	74.356	72.014	77.869	77.869	76.112	73.185	72.014	75.527
135.0	76.698	76.698	74.356	72.014	72.599	70.257	68.501	68.501	72.599	77.283
137.5	76.112	75.527	72.014	64.988	60.890	59.133	58.548	61.475	67.915	76.698
140.0	66.159	66.159	61.475	53.864	48.009	46.253	47.424	51.522	58.548	67.915
142.5	54.449	53.278	49.766	42.154	33.372	33.958	36.300	39.227	47.424	56.791
145.0	41.569	40.398	36.885	29.274	23.419	22.834	25.176	27.517	35.714	44.496
147.5	27.517	26.347	24.005	19.906	15.222	10.539	12.881	16.393	24.005	29.859
150.0	19.906	18.735	16.979	12.295	5.855	4.684	5.855	7.026	12.881	18.150
152.5	9.953	9.368	7.026	3.513	2.927	2.342	3.513	4.098	6.440	8.782
155.0	3.513	3.513	2.342	1.756	1.756	1.756	2.342	2.342	3.513	4.684
157.5	1.171	0.585	1.171	1.171	1.756	1.756	1.756	2.342	2.342	2.927
160.0	0.585	0.585	1.171	1.171	1.756	1.756	1.756	1.756	2.342	2.342
162.5	0.585	0.585	1.171	1.171	1.756	1.756	1.756	1.756	2.342	2.342
165.0	0.585	0.585	1.171	1.756	1.756	1.756	1.756	1.756	2.342	2.342
167.5	0.585	0.585	1.171	1.756	1.756	2.342	2.342	2.342	2.342	2.342
170.0	0.585	0.585	1.171	1.756	2.342	2.342	2.342	2.342	2.342	2.342
172.5	0.585	0.585	1.171	1.756	2.342	2.342	2.342	2.342	2.342	2.342
175.0	0.585	0.585	1.171	1.756	2.342	2.342	2.342	2.342	2.342	2.342
177.5	0.585	0.585	1.171	1.756	2.342	2.342	2.342	2.342	2.342	2.342
180.0	1.756	1.756	1.756	1.756	1.756	1.756	1.756	1.756	1.756	1.756

Vert. Angles	**Horizontal Angles**									
	85	**90**	**95**	**105**	**115**	**125**	**135**	**145**	**155**	**165**
0.0	952.572	952.572	952.572	952.572	952.572	952.572	952.572	952.572	952.572	952.572
2.5	950.231	943.205	941.448	945.547	942.619	946.132	946.718	951.401	958.427	966.038
5.0	957.842	944.961	947.303	973.650	1014.048	1024.001	1021.659	1024.586	1015.804	1014.048
7.5	981.261	964.282	967.795	1016.390	1038.638	1038.052	1021.659	999.996	971.893	963.697
10.0	1000.582	980.090	987.701	1045.663	1059.715	1021.659	1015.804	1016.390	1029.270	1003.509
12.5	1067.912	1040.394	1067.326	1125.288	1074.937	1044.492	1039.223	1068.497	1050.933	1098.942
15.0	1126.459	1080.792	1110.066	1165.101	1125.874	1139.925	1112.408	1177.981	1170.956	1205.499
17.5	1192.033	1154.562	1199.644	1228.918	1179.738	1190.276	1272.829	1251.752	1245.311	1315.569
20.0	1302.688	1245.897	1283.953	1273.414	1265.803	1300.346	1297.419	1357.723	1363.578	1395.194
22.5	1471.306	1406.318	1405.732	1364.163	1321.423	1377.044	1388.168	1457.254	1440.861	1526.926
25.0	1599.525	1564.397	1509.362	1429.737	1413.343	1427.395	1471.306	1515.802	1552.687	1594.256
27.5	1793.319	1672.710	1666.270	1501.751	1430.908	1504.093	1543.905	1612.991	1622.359	1711.352
30.0	1937.932	1798.588	1777.511	1583.718	1483.015	1568.495	1612.406	1653.975	1701.984	1789.806
32.5	2032.194	1879.969	1841.328	1655.146	1511.704	1590.158	1615.919	1725.403	1827.276	1950.812
35.0	2136.994	1923.295	1857.721	1648.706	1507.020	1588.987	1649.291	1796.831	1914.513	2059.711
37.5	2183.247	1980.671	1877.042	1608.308	1474.819	1553.858	1681.492	1825.520	1951.398	2115.917
40.0	2228.329	2032.779	1858.892	1550.345	1443.203	1507.020	1690.274	1800.930	1952.569	2182.661
42.5	2337.813	2046.245	1858.892	1488.285	1375.287	1493.554	1642.265	1734.771	1971.304	2292.146
45.0	2393.433	2095.425	1870.602	1455.498	1298.004	1485.943	1578.448	1671.539	2101.865	2280.436
47.5	2513.456	2182.076	1870.016	1420.955	1235.944	1429.151	1520.486	1632.898	2293.902	2200.811
50.0	2658.069	2342.497	1918.611	1394.023	1180.909	1384.655	1480.088	1601.867	2341.911	2151.046
52.5	2922.120	2540.974	2046.830	1408.660	1147.537	1326.107	1428.566	1590.743	2283.364	2062.638
55.0	3217.786	2812.050	2275.752	1430.322	1125.288	1263.461	1370.604	1547.418	2196.713	1955.496
57.5	3690.852	3177.974	2570.248	1481.844	1115.335	1204.328	1299.175	1473.062	2084.301	1854.794
60.0	4337.220	3679.143	2995.305	1549.174	1091.331	1120.019	1224.820	1378.800	1907.487	1742.967
62.5	4775.157	4036.870	3220.128	1604.795	1042.736	1020.488	1142.853	1270.487	1653.975	1629.385
65.0	5009.934	4086.050	3072.002	1570.837	962.526	915.687	1064.984	1169.199	1379.386	1536.294
67.5	4593.074	3528.675	2440.857	1357.723	874.704	805.032	960.184	1060.886	1160.417	1432.079
70.0	3829.610	2701.980	1588.401	1019.902	745.313	694.962	851.285	937.935	1005.265	1297.419
72.5	2502.332	1688.518	875.289	706.086	601.286	588.405	718.967	802.105	921.542	1084.890
75.0	947.303	694.962	562.059	508.195	489.459	488.289	564.986	648.709	719.552	747.655
77.5	544.494	488.874	377.048	436.766	426.813	418.617	433.839	474.823	545.665	607.726

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CANDELA TABULATION - (Cont.)

80.0	405.151	380.561	296.837	389.928	381.732	365.924	387.586	417.446	460.186	488.289
82.5	338.406	305.619	252.926	343.090	327.868	309.718	341.919	368.266	401.052	407.493
85.0	296.837	221.311	229.507	305.619	286.299	276.346	285.713	291.568	340.163	340.748
87.5	246.486	134.074	225.409	265.221	250.585	244.730	248.243	236.533	236.533	255.854
90.0	175.643	106.557	210.187	232.435	221.896	207.259	220.725	211.357	200.819	194.379
92.5	131.733	149.882	189.695	224.823	214.870	199.062	209.601	204.917	193.793	180.327
95.0	128.220	186.182	176.229	218.969	209.016	188.524	203.161	198.477	190.866	177.985
97.5	138.173	187.938	173.301	202.575	196.721	173.301	193.793	189.695	185.011	170.960
100.0	146.369	174.472	168.032	177.400	185.011	162.177	185.011	182.669	179.156	162.177
102.5	139.929	158.664	156.323	156.323	170.960	155.737	176.814	176.814	174.472	152.810
105.0	128.220	141.686	142.857	139.929	155.737	150.468	168.618	170.960	169.203	142.271
107.5	115.339	125.878	129.391	127.634	141.100	144.028	162.177	165.690	162.763	129.976
110.0	104.215	112.997	117.681	118.267	128.220	136.416	155.152	160.421	155.737	117.681
112.5	96.018	103.630	107.728	110.655	117.681	129.976	147.540	155.737	149.297	107.142
115.0	89.578	96.018	100.117	105.386	110.655	124.121	139.929	149.297	141.100	98.360
117.5	84.894	90.749	94.262	101.288	105.386	120.023	134.074	142.271	131.147	90.749
120.0	81.381	86.065	90.164	97.775	102.459	116.510	128.805	134.074	120.023	85.480
122.5	79.040	82.552	86.065	94.262	100.702	113.583	123.536	126.463	107.728	81.967
125.0	76.112	79.625	83.138	91.335	99.531	110.655	118.852	117.096	95.433	79.625
127.5	75.527	78.454	81.967	90.164	98.946	109.484	113.583	107.728	84.894	76.698
130.0	76.112	78.454	82.552	90.164	98.360	107.728	108.899	98.360	77.869	74.941
132.5	77.869	80.210	83.723	90.749	96.018	103.044	103.044	89.578	73.770	73.185
135.0	80.210	82.552	85.480	90.749	93.091	93.091	92.505	82.552	71.428	72.014
137.5	81.967	83.723	86.065	87.822	85.480	80.210	76.112	69.672	70.257	72.014
140.0	76.112	79.040	79.625	77.869	73.185	65.574	57.962	55.035	60.304	65.574
142.5	64.988	67.915	67.330	64.403	58.548	49.766	40.398	40.983	47.424	53.278
145.0	50.937	52.693	53.278	49.766	42.740	34.543	27.517	26.932	34.543	40.398
147.5	34.543	35.714	36.885	34.543	28.688	20.492	16.979	18.735	22.248	26.932
150.0	21.077	21.663	22.248	21.077	15.808	9.953	7.026	10.539	14.637	16.393
152.5	10.539	11.124	11.124	10.539	8.197	5.855	4.098	3.513	5.855	9.953
155.0	5.855	6.440	6.440	5.855	5.269	4.098	2.927	1.756	1.171	1.171
157.5	4.098	4.098	4.098	4.098	4.098	3.513	2.342	1.171	0.000	0.000
160.0	2.927	3.513	3.513	3.513	3.513	3.513	2.342	1.171	0.000	0.000
162.5	2.927	2.927	3.513	3.513	3.513	2.927	2.342	0.585	0.000	0.000
165.0	2.927	2.927	2.927	3.513	3.513	2.927	1.756	0.585	0.000	0.000
167.5	2.927	2.927	2.927	3.513	3.513	2.927	1.756	0.585	0.000	0.000
170.0	2.927	2.927	2.927	3.513	2.927	2.927	1.756	0.585	0.000	0.000
172.5	2.927	2.927	2.927	2.927	2.927	2.927	1.756	0.585	0.000	0.000
175.0	2.927	2.927	2.927	2.927	2.927	2.342	1.756	0.585	0.000	0.000
177.5	2.342	2.927	2.927	2.927	2.927	2.342	1.756	0.585	0.000	0.000
180.0	1.756	1.756	1.756	1.756	1.756	1.756	1.756	1.756	1.756	1.756

Vert. Angles	**Horizontal Angles**	
	175	**180**
0.0	952.572	952.572
2.5	964.282	975.406
5.0	993.556	977.748
7.5	963.697	980.675
10.0	1019.902	1005.265
12.5	1114.750	1122.946
15.0	1200.230	1146.366
17.5	1294.491	1342.501
20.0	1395.779	1346.599
22.5	1523.413	1512.875
25.0	1603.038	1572.008

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CANDELA TABULATION - (Cont.)

27.5	1733.600	1749.408
30.0	1860.649	1832.546
32.5	1983.599	1969.547
35.0	2093.083	2092.498
37.5	2122.357	2134.067
40.0	2053.856	2043.318
42.5	1966.035	1941.444
45.0	1790.391	1769.899
47.5	1713.108	1681.492
50.0	1638.752	1601.282
52.5	1568.495	1526.926
55.0	1506.434	1453.156
57.5	1438.519	1371.189
60.0	1377.044	1275.756
62.5	1335.475	1196.717
65.0	1323.765	1143.438
67.5	1300.346	1097.771
70.0	1252.337	1087.818
72.5	1032.197	1016.390
75.0	982.432	1063.813
77.5	884.072	949.645
80.0	695.548	725.993
82.5	500.584	514.050
85.0	478.921	474.237
87.5	252.341	209.016
90.0	139.344	100.117
92.5	110.070	79.040
95.0	109.484	93.091
97.5	107.728	104.801
100.0	105.386	114.168
102.5	104.215	118.267
105.0	103.630	118.852
107.5	102.459	115.925
110.0	101.288	111.826
112.5	98.946	106.557
115.0	96.604	101.288
117.5	94.262	96.018
120.0	91.335	92.505
122.5	88.407	89.578
125.0	85.480	86.651
127.5	82.552	83.138
130.0	79.040	79.625
132.5	75.527	76.112
135.0	73.770	73.770
137.5	72.599	72.599
140.0	68.501	68.501
142.5	56.791	56.791
145.0	43.325	43.911
147.5	30.445	30.445
150.0	18.150	18.150
152.5	11.124	11.710
155.0	1.171	1.171
157.5	0.000	0.000
160.0	0.000	0.000
162.5	0.000	0.000
165.0	0.000	0.000

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CANDELA TABULATION - (Cont.)

167.5	0.000	0.000
170.0	0.000	0.000
172.5	0.000	0.000
175.0	0.000	0.000
177.5	0.000	0.000
180.0	1.756	1.756

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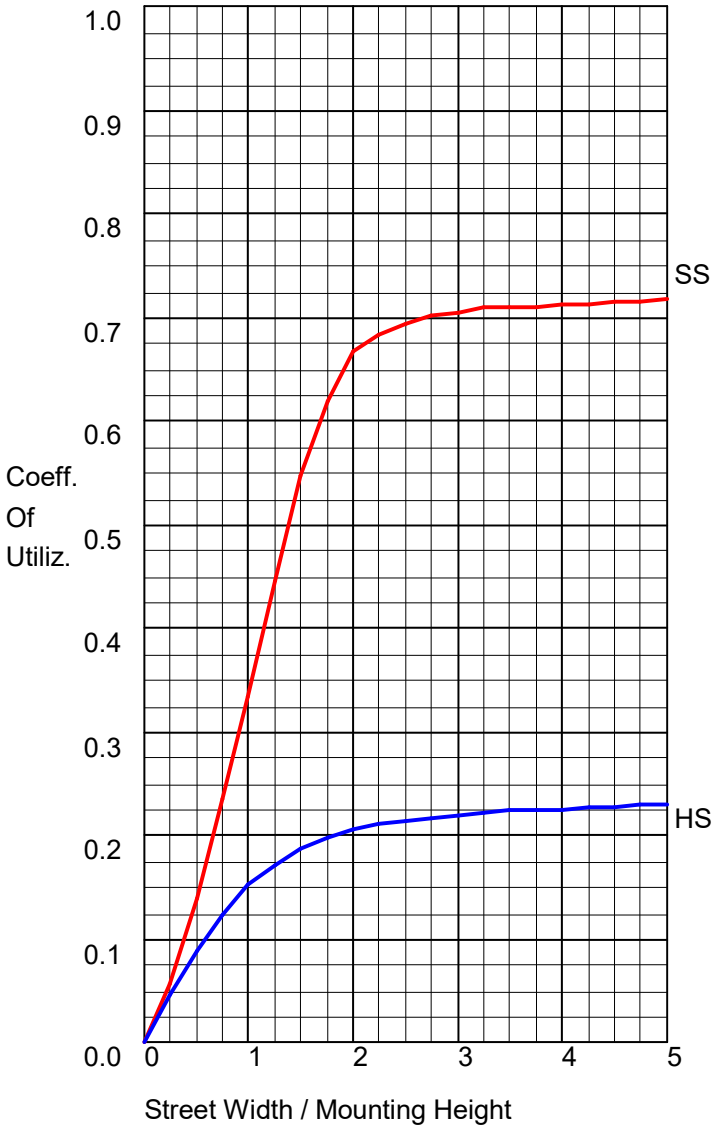
IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-15L-SIL-3-40-70CRI.IES

COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	11453.1	72.4
Downward House Side	3762.3	23.8
Downward Total	15215.4	96.2
Upward Street Side	266.8	1.7
Upward House Side	329.6	2.1
Upward Total	596.4	3.8
Total Flux	15811.8	100.0

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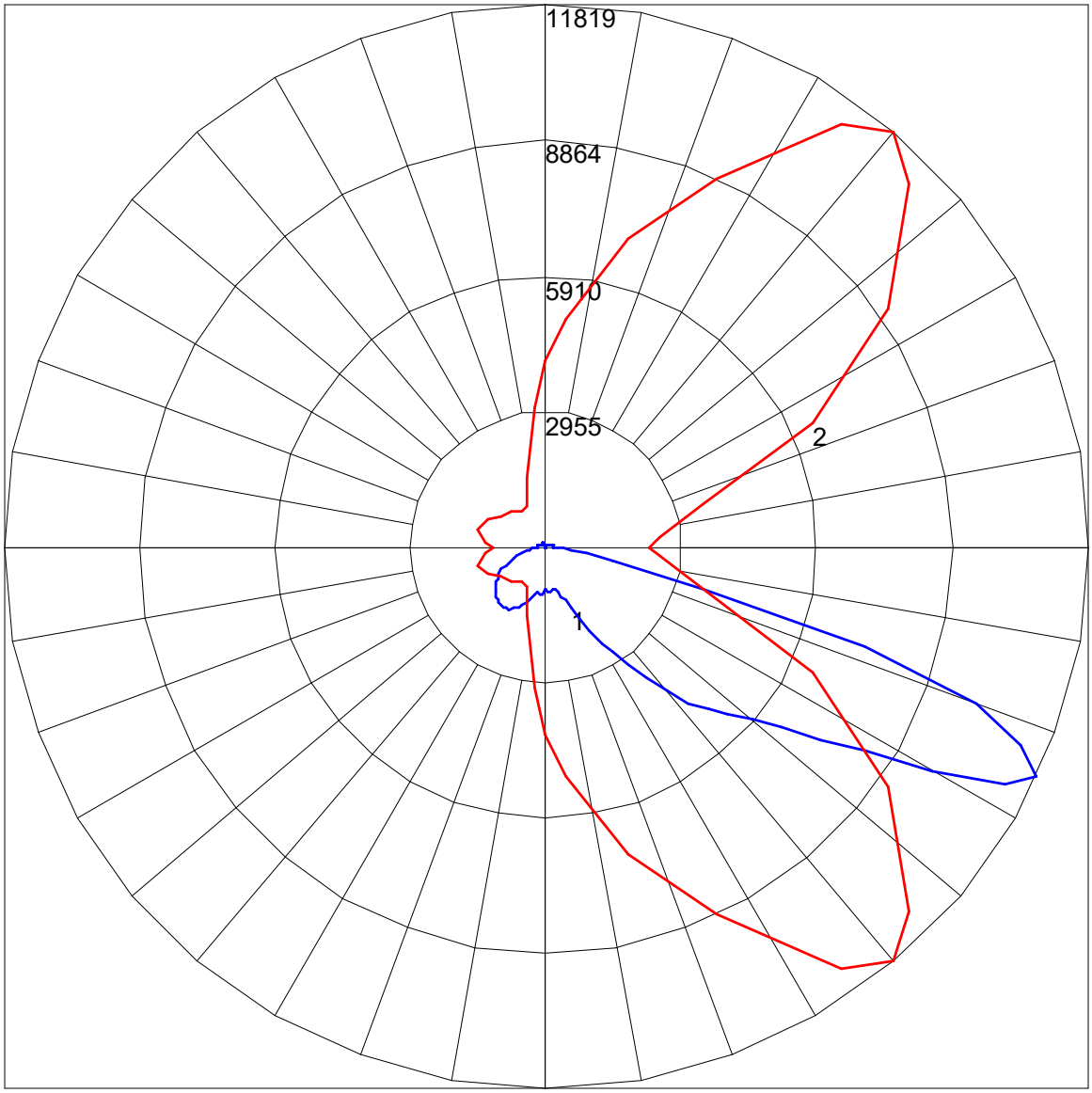
POLAR GRAPH



Maximum Candela = 11819.041 Located At Horizontal Angle = 50, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (50 - 230) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

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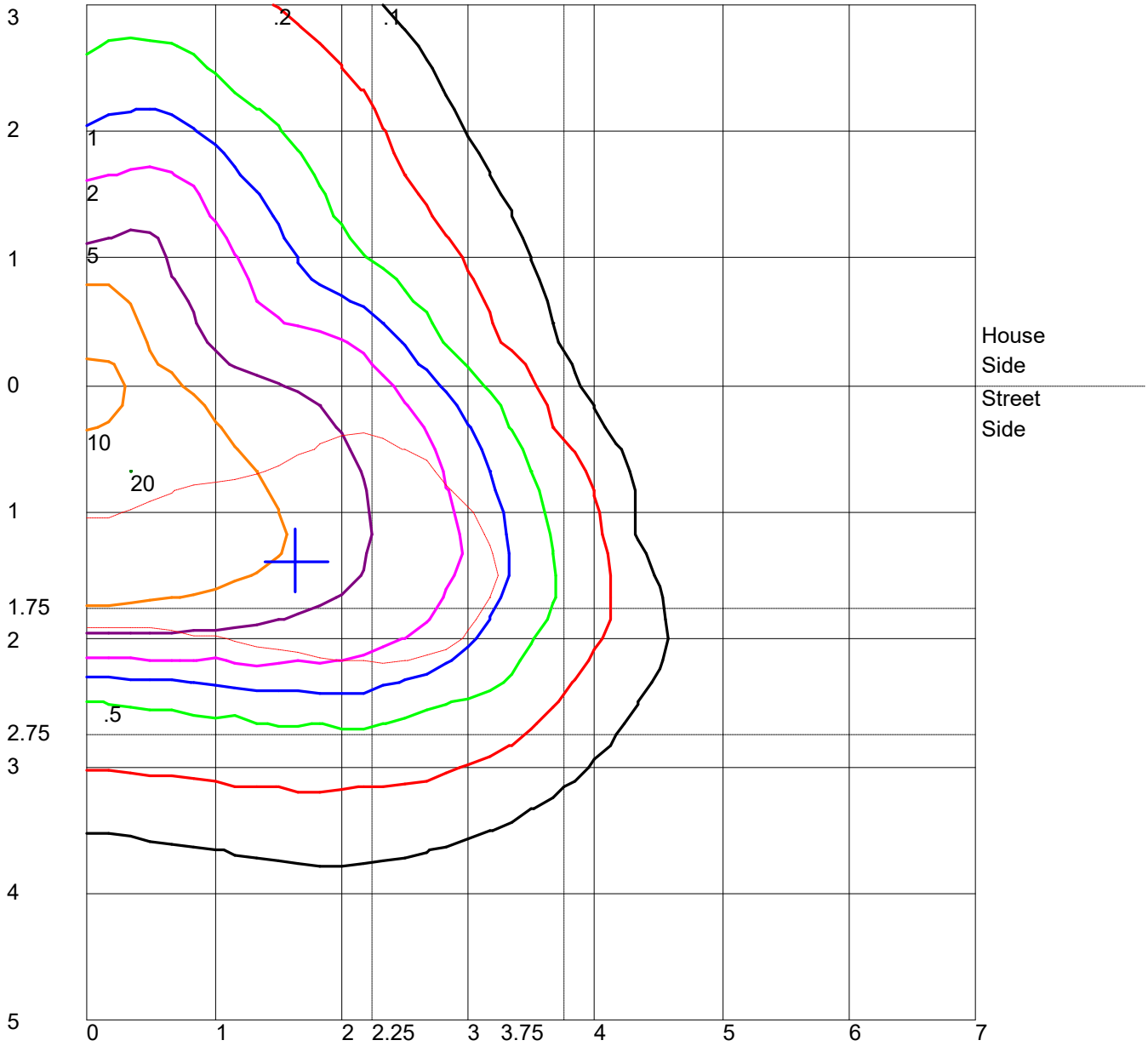
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



Distance In Units Of Mounting Height
Values Based On 10 Foot Mounting Height
1/2 Maximum Candela Trace Shown As Dashed Curve
(+) = Maximum Candela Point

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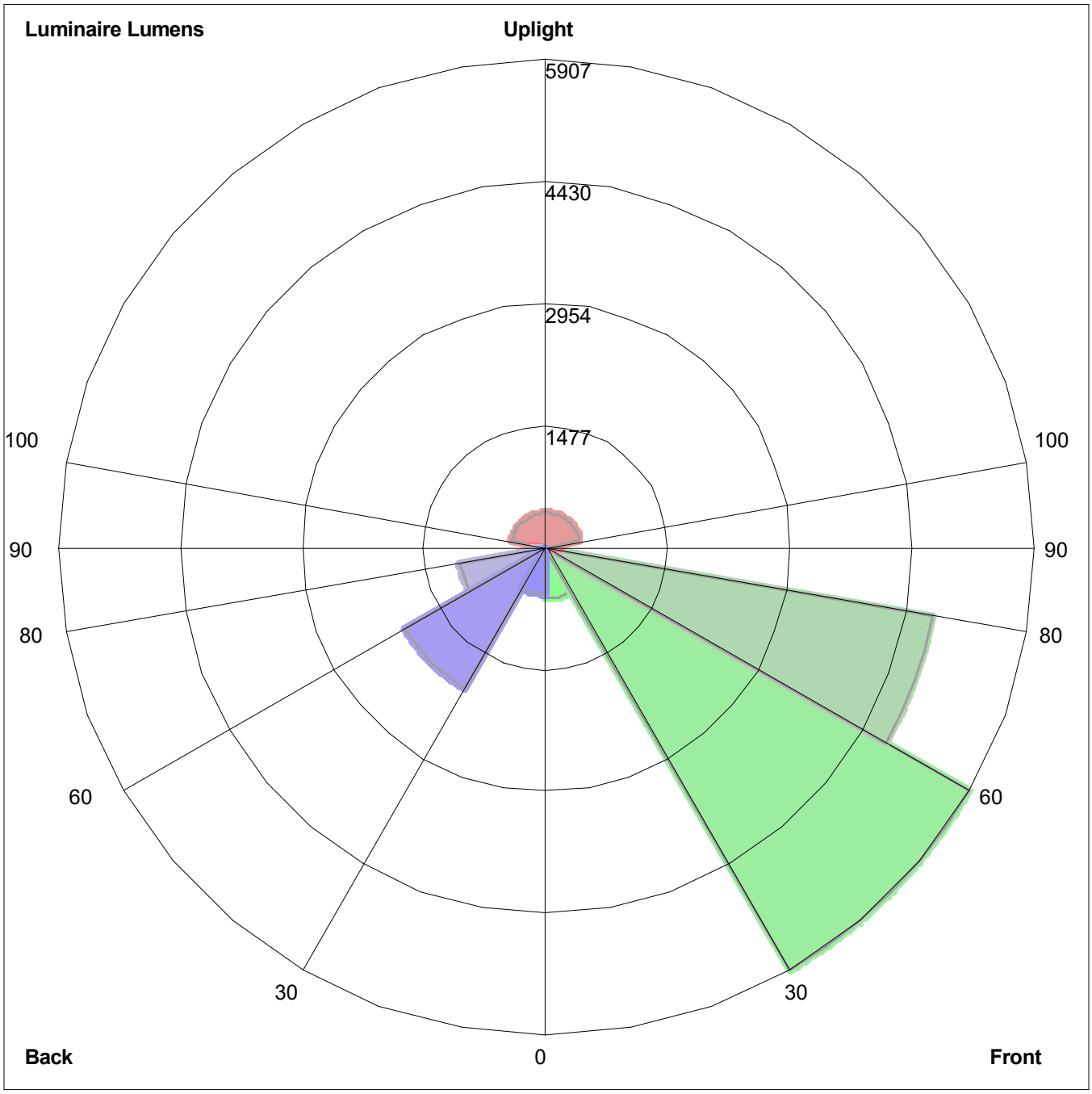
LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=617.4, Medium= 5907.0, High=4742.2, Very High=186.5
Back: Low=564.7, Medium=1965.7, High=1063.1, Very High=168.7
Uplight: Low=178.5, High=417.9

BUG Rating : B3-U3-G3

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