IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-20L-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-20L-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	21634
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	145
Total Luminaire Watts	149
Ballast Factor	1.00
Upward Waste Light Ratio	0.04
Maximum Candela	16170.829
Maximum Candela Angle	50H 65V
Maximum Candela (<90 Degrees Vertical)	16170.829
Maximum Candela Angle (<90 Degrees Vertical)	50H 65V
Maximum Candela At 90 Degrees Vertical	318.017 (1.5% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1228.012 (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)	844.8	N.A.	3.9
FM - Front-Medium (30-60)	8082.0	N.A.	37.4
FH - Front-High (60-80)	6488.2	N.A.	30.0
FVH - Front-Very High (80-90)	255.1	N.A.	1.2
BL - Back-Low (0-30)	772.7	N.A.	3.6
BM - Back-Medium (30-60)	2689.5	N.A.	12.4
BH - Back-High (60-80)	1454.6	N.A.	6.7
BVH - Back-Very High (80-90)	230.8	N.A.	1.1
UL - Uplight-Low (90-100)	244.3	N.A.	1.1
UH - Uplight-High (100-180)	571.7	N.A.	2.6
Total	21633.7	N.A.	100.0
BUG Rating	B3-U4-G3		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	5	15	25	35	45	50	55	65	75
0.0	1303.311	1303.311	1303.311	1303.311	1303.311	1303.311	1303.311	1303.311	1303.311	1303.311
2.5	1324.939	1324.138	1332.149	1342.563	1340.960	1336.154	1324.939	1334.552	1318.531	1308.918
5.0	1272.070	1275.274	1284.086	1321.735	1343.364	1350.573	1347.369	1356.981	1353.777	1346.568
7.5	1257.651	1266.463	1243.232	1266.463	1269.667	1275.274	1293.698	1328.945	1354.578	1358.584
10.0	1238.426	1236.023	1252.845	1260.855	1281.683	1292.096	1296.903	1292.096	1349.772	1374.605
12.5	1269.667	1288.892	1293.698	1297.704	1296.903	1294.499	1307.316	1328.144	1336.955	1468.328
15.0	1312.123	1316.929	1334.552	1331.348	1373.804	1359.385	1352.976	1373.804	1436.286	1504.375
17.5	1461.118	1464.322	1493.961	1461.118	1472.333	1522.799	1534.815	1492.359	1551.637	1578.072
20.0	1617.323	1642.957	1677.402	1668.591	1737.481	1666.187	1703.036	1735.078	1730.271	1700.633
22.5	1973.791	2008.236	2052.294	2045.886	2024.257	2020.252	1973.791	1983.404	1959.372	1961.775
25.0	2515.302	2575.381	2480.857	2434.396	2489.668	2394.343	2362.301	2297.416	2307.830	2189.274
27.5	3212.217	3285.914	3200.201	3083.248	2935.854	2951.875	2786.859	2714.764	2629.051	2466.438
30.0	3990.839	4060.531	3984.431	3701.660	3562.277	3400.464	3325.966	3172.965	2918.231	2838.927
32.5	4489.093	4497.905	4496.303	4481.884	4186.296	3962.802	3731.298	3664.010	3276.301	3060.017
35.0	4980.138	4918.457	4910.446	4975.332	4952.101	4548.371	4300.846	4083.761	3567.083	3283.511
37.5	5444.748	5398.287	5359.836	5461.570	5516.041	5290.946	4932.075	4541.963	3935.567	3463.747
40.0	6043.133	5942.201	5945.405	6025.510	6082.385	5978.248	5606.560	5012.981	4280.019	3575.093
42.5	6708.006	6586.246	6639.116	6768.886	6709.608	6536.581	6317.093	5596.948	4567.596	3756.932
45.0	7553.917	7470.607	7567.535	7688.493	7509.058	7083.699	6838.578	6283.449	4727.807	3936.368
47.5	8589.676	8624.122	8652.159	8839.605	8530.399	7744.567	7370.476	6801.729	5066.651	4183.893
50.0	9733.578	9773.631	9752.002	10043.585	9730.374	8634.535	8021.731	7256.727	5555.293	4584.418
52.5	11112.989	11196.298	10992.831	11182.681	10947.972	9860.945	8872.448	7894.364	6270.632	5069.055
55.0	12542.866	12695.867	12663.825	12763.155	12405.085	11108.984	10016.349	8764.306	7183.831	5462.371
57.5	12436.326	12451.546	12896.931	14008.791	14223.473	12727.909	11324.467	10113.277	8064.988	6119.233
60.0	11182.681	11201.906	11681.736	13296.656	15044.550	14636.815	13360.740	11691.348	9316.230	7147.784
62.5	7894.364	8291.685	9510.085	11727.396	13947.110	15948.938	15418.642	13446.452	10640.369	8352.565
65.0	3093.661	3402.066	4910.446	8797.950	12469.971	15384.196	16170.829	15398.615	12139.937	9534.917
67.5	1432.280	1475.537	2017.048	3885.100	9940.250	13935.895	15385.798	16029.844	12656.616	9565.357
70.0	1045.372	1079.017	1313.725	2095.551	4950.499	11883.601	13689.972	14706.507	13133.241	8919.710
72.5	796.245	818.675	1026.147	1479.542	2818.901	7020.416	10013.946	11601.631	11700.160	6659.142
75.0	598.386	625.621	821.879	1183.954	1806.371	3068.028	4838.352	6830.567	6984.369	3755.330
77.5	458.202	487.039	653.658	981.288	1332.149	1790.350	2074.724	2339.872	2689.931	1185.556
80.0	348.457	392.515	531.898	801.853	1010.927	1187.158	1228.012	1187.960	992.503	778.622
82.5	270.755	319.620	438.976	665.674	743.376	768.209	749.784	762.601	688.904	614.407
85.0	247.525	310.808	346.054	502.259	520.684	550.322	490.244	479.029	483.034	487.840
87.5	165.818	204.268	257.138	357.269	299.593	351.662	326.829	307.604	331.635	366.882
90.0	80.105	97.728	144.189	169.022	196.258	221.891	231.504	241.117	261.143	281.970
92.5	93.723	100.131	145.791	169.022	193.854	222.692	226.698	237.111	257.138	272.358
95.0	106.540	103.336	148.195	171.425	193.854	220.289	225.096	231.504	254.734	261.143
97.5	116.152	105.739	148.195	173.027	193.854	216.284	222.692	222.692	244.321	221.090
100.0	122.561	108.943	147.393	173.828	193.053	213.080	218.687	213.881	224.294	174.629
102.5	126.566	112.948	145.791	174.629	193.053	209.074	213.080	205.069	195.457	140.184
105.0	128.969	117.755	143.388	175.430	192.252	203.467	203.467	187.446	166.619	128.969
107.5	130.571	122.561	140.184	175.430	189.849	193.854	186.645	164.216	140.184	120.959
110.0	131.372	125.765	136.980	173.828	185.844	177.032	165.017	142.587	120.959	116.152
112.5	130.571	128.168	133.776	171.425	177.833	157.807	144.189	126.566	108.142	111.346
115.0	130.571	128.969	131.372	165.017	164.216	140.985	128.969	116.152	100.933	107.341
117.5	130.571	129.770	128.969	154.603	148.195	128.168	119.357	109.744	96.927	104.938
120.0	130.571	128.969	124.163	139.383	135.378	120.158	112.948	104.938	95.325	102.535
122.5	128.168	126.566	116.954	125.765	125.765	115.351	108.943	102.535	94.524	99.330
125.0	122.561	120.959	110.545	114.550	118.556	111.346	106.540	101.734	94.524	97.728
127.5	116.152	114.550	105.739	106.540	112.948	108.943	106.540	102.535	96.126	98.529
130.0	109.744	108.142	103.336	101.734	108.943	108.943	107.341	103.336	97.728	100.131

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CANDELA TABULATION - (Cont.)

132.5	106.540	105.739	101.734	98.529	106.540	106.540	104.137	100.131	98.529	103.336
135.0	104.938	104.938	101.734	98.529	99.330	96.126	93.723	93.723	99.330	105.739
137.5	104.137	103.336	98.529	88.917	83.309	80.906	80.105	84.110	92.922	104.938
140.0	90.519	90.519	84.110	73.697	65.686	63.283	64.885	70.493	80.105	92.922
142.5	74.498	72.896	68.089	57.676	45.660	46.461	49.665	53.670	64.885	77.702
145.0	56.875	55.273	50.466	40.053	32.042	31.241	34.445	37.649	48.864	60.880
147.5	37.649	36.047	32.843	27.236	20.827	14.419	17.623	22.429	32.843	40.854
150.0	27.236	25.634	23.230	16.822	8.011	6.408	8.011	9.613	17.623	24.833
152.5	13.618	12.817	9.613	4.806	4.005	3.204	4.806	5.607	8.812	12.016
155.0	4.806	4.806	3.204	2.403	2.403	2.403	3.204	3.204	4.806	6.408
157.5	1.602	0.801	1.602	1.602	2.403	2.403	2.403	3.204	3.204	4.005
160.0	0.801	0.801	1.602	1.602	2.403	2.403	2.403	2.403	3.204	3.204
162.5	0.801	0.801	1.602	1.602	2.403	2.403	2.403	2.403	3.204	3.204
165.0	0.801	0.801	1.602	2.403	2.403	2.403	2.403	2.403	3.204	3.204
167.5	0.801	0.801	1.602	2.403	2.403	3.204	3.204	3.204	3.204	3.204
170.0	0.801	0.801	1.602	2.403	3.204	3.204	3.204	3.204	3.204	3.204
172.5	0.801	0.801	1.602	2.403	3.204	3.204	3.204	3.204	3.204	3.204
175.0	0.801	0.801	1.602	2.403	3.204	3.204	3.204	3.204	3.204	3.204
177.5	0.801	0.801	1.602	2.403	3.204	3.204	3.204	3.204	3.204	3.204
180.0	2.403	2.403	2.403	2.403	2.403	2.403	2.403	2.403	2.403	2.403

Vert. Angles	**Horizontal Angles**									
	85	**90**	**95**	**105**	**115**	**125**	**135**	**145**	**155**	**165**
0.0	1303.311	1303.311	1303.311	1303.311	1303.311	1303.311	1303.311	1303.311	1303.311	1303.311
2.5	1300.107	1290.494	1288.091	1293.698	1289.693	1294.499	1295.300	1301.709	1311.321	1321.735
5.0	1310.520	1292.897	1296.102	1332.149	1387.421	1401.039	1397.835	1401.840	1389.825	1387.421
7.5	1342.563	1319.332	1324.138	1390.626	1421.066	1420.265	1397.835	1368.196	1329.746	1318.531
10.0	1368.997	1340.960	1351.374	1430.678	1449.903	1397.835	1389.825	1390.626	1408.249	1373.002
12.5	1461.118	1423.469	1460.317	1539.621	1470.731	1429.076	1421.867	1461.919	1437.888	1503.574
15.0	1541.223	1478.741	1518.794	1594.093	1540.422	1559.647	1521.998	1611.716	1602.103	1649.365
17.5	1630.941	1579.674	1641.355	1681.407	1614.119	1628.538	1741.486	1712.648	1703.837	1799.963
20.0	1782.340	1704.638	1756.706	1742.287	1731.874	1779.136	1775.130	1857.639	1865.649	1908.906
22.5	2013.043	1924.126	1923.325	1866.450	1807.973	1884.073	1899.293	1993.817	1971.388	2089.143
25.0	2188.473	2140.410	2065.111	1956.168	1933.739	1952.964	2013.043	2073.923	2124.389	2181.264
27.5	2453.621	2288.604	2279.793	2054.697	1957.770	2057.902	2112.373	2206.897	2219.714	2341.474
30.0	2651.481	2460.831	2431.993	2166.845	2029.064	2146.017	2206.096	2262.971	2328.657	2448.815
32.5	2780.450	2572.177	2519.307	2264.573	2068.315	2175.656	2210.902	2360.699	2500.082	2669.104
35.0	2923.838	2631.455	2541.737	2255.761	2061.907	2174.054	2256.562	2458.427	2619.439	2818.100
37.5	2987.121	2709.958	2568.171	2200.489	2017.849	2125.991	2300.620	2497.679	2669.905	2895.001
40.0	3048.802	2781.251	2543.339	2121.185	1974.592	2061.907	2312.636	2464.035	2671.507	2986.320
42.5	3198.599	2799.675	2543.339	2036.273	1881.670	2043.483	2246.950	2373.516	2697.141	3136.117
45.0	3274.699	2866.964	2559.360	1991.414	1775.931	2033.069	2159.635	2287.002	2875.775	3120.096
47.5	3438.915	2985.519	2558.559	1944.152	1691.020	1955.367	2080.331	2234.133	3138.520	3011.153
50.0	3636.774	3205.008	2625.046	1907.304	1615.721	1894.487	2025.058	2191.677	3204.206	2943.064
52.5	3998.049	3476.564	2800.476	1927.330	1570.061	1814.382	1954.566	2176.457	3124.101	2822.105
55.0	4402.580	3847.451	3113.688	1956.969	1539.621	1728.669	1875.262	2117.179	3005.546	2675.512
57.5	5049.829	4348.108	3516.617	2027.462	1526.003	1647.763	1777.534	2015.446	2851.744	2537.732
60.0	5934.190	5033.808	4098.180	2119.583	1493.160	1532.412	1675.800	1886.477	2609.826	2384.731
62.5	6533.377	5523.251	4405.784	2195.682	1426.673	1396.233	1563.653	1738.282	2262.971	2229.327
65.0	6854.599	5590.539	4203.118	2149.221	1316.929	1252.845	1457.113	1599.700	1887.278	2101.959
67.5	6284.250	4827.938	3339.584	1857.639	1196.771	1101.446	1313.725	1451.506	1587.684	1959.372
70.0	5239.679	3696.853	2173.253	1395.432	1019.739	950.848	1164.729	1283.285	1375.406	1775.130
72.5	3423.695	2310.233	1197.572	966.068	822.680	805.057	983.691	1097.441	1260.855	1484.349
75.0	1296.102	950.848	769.010	695.313	669.679	668.077	773.015	887.565	984.492	1022.943
77.5	744.978	668.878	515.877	597.585	583.967	572.752	593.579	649.653	746.580	831.492

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CANDELA TABULATION - (Cont.)

80.0	554.328	520.684	406.133	533.500	522.286	500.657	530.296	571.150	629.627	668.077
82.5	463.008	418.149	346.054	469.416	448.589	423.756	467.814	503.861	548.720	557.532
85.0	406.133	302.798	314.012	418.149	391.714	378.096	390.913	398.924	465.411	466.212
87.5	337.243	183.441	308.405	362.876	342.850	334.840	339.646	323.625	323.625	350.060
90.0	240.315	145.791	287.578	318.017	303.599	283.572	301.996	289.180	274.761	265.949
92.5	180.237	205.069	259.541	307.604	293.986	272.358	286.776	280.368	265.148	246.724
95.0	175.430	254.734	241.117	299.593	285.975	257.939	277.965	271.556	261.143	243.520
97.5	189.048	257.138	237.111	277.164	269.153	237.111	265.148	259.541	253.132	233.907
100.0	200.263	238.713	229.902	242.719	253.132	221.891	253.132	249.928	245.122	221.891
102.5	191.451	217.085	213.881	213.881	233.907	213.080	241.918	241.918	238.713	209.074
105.0	175.430	193.854	195.457	191.451	213.080	205.870	230.703	233.907	231.504	194.656
107.5	157.807	172.226	177.032	174.629	193.053	197.059	221.891	226.698	222.692	177.833
110.0	142.587	154.603	161.011	161.812	175.430	186.645	212.279	219.488	213.080	161.011
112.5	131.372	141.786	147.393	151.399	161.011	177.833	201.865	213.080	204.268	146.592
115.0	122.561	131.372	136.980	144.189	151.399	169.823	191.451	204.268	193.053	134.577
117.5	116.152	124.163	128.969	138.582	144.189	164.216	183.441	194.656	179.436	124.163
120.0	111.346	117.755	123.362	133.776	140.184	159.409	176.231	183.441	164.216	116.954
122.5	108.142	112.948	117.755	128.969	137.781	155.404	169.022	173.027	147.393	112.147
125.0	104.137	108.943	113.749	124.964	136.179	151.399	162.613	160.210	130.571	108.943
127.5	103.336	107.341	112.147	123.362	135.378	149.797	155.404	147.393	116.152	104.938
130.0	104.137	107.341	112.948	123.362	134.577	147.393	148.996	134.577	106.540	102.535
132.5	106.540	109.744	114.550	124.163	131.372	140.985	140.985	122.561	100.933	100.131
135.0	109.744	112.948	116.954	124.163	127.367	127.367	126.566	112.948	97.728	98.529
137.5	112.147	114.550	117.755	120.158	116.954	109.744	104.137	95.325	96.126	98.529
140.0	104.137	108.142	108.943	106.540	100.131	89.718	79.304	75.299	82.508	89.718
142.5	88.917	92.922	92.121	88.116	80.105	68.089	55.273	56.074	64.885	72.896
145.0	69.691	72.095	72.896	68.089	58.477	47.262	37.649	36.848	47.262	55.273
147.5	47.262	48.864	50.466	47.262	39.252	28.037	23.230	25.634	30.440	36.848
150.0	28.838	29.639	30.440	28.838	21.628	13.618	9.613	14.419	20.026	22.429
152.5	14.419	15.220	15.220	14.419	11.215	8.011	5.607	4.806	8.011	13.618
155.0	8.011	8.812	8.812	8.011	7.209	5.607	4.005	2.403	1.602	1.602
157.5	5.607	5.607	5.607	5.607	5.607	4.806	3.204	1.602	0.000	0.000
160.0	4.005	4.806	4.806	4.806	4.806	4.806	3.204	1.602	0.000	0.000
162.5	4.005	4.005	4.806	4.806	4.806	4.005	3.204	0.801	0.000	0.000
165.0	4.005	4.005	4.005	4.806	4.806	4.005	2.403	0.801	0.000	0.000
167.5	4.005	4.005	4.005	4.806	4.806	4.005	2.403	0.801	0.000	0.000
170.0	4.005	4.005	4.005	4.806	4.005	4.005	2.403	0.801	0.000	0.000
172.5	4.005	4.005	4.005	4.005	4.005	4.005	2.403	0.801	0.000	0.000
175.0	4.005	4.005	4.005	4.005	4.005	3.204	2.403	0.801	0.000	0.000
177.5	3.204	4.005	4.005	4.005	4.005	3.204	2.403	0.801	0.000	0.000
180.0	2.403	2.403	2.403	2.403	2.403	2.403	2.403	2.403	2.403	2.403

Vert. Angles	**Horizontal Angles**	
	175	**180**
0.0	1303.311	1303.311
2.5	1319.332	1334.552
5.0	1359.385	1337.756
7.5	1318.531	1341.761
10.0	1395.432	1375.406
12.5	1525.202	1536.417
15.0	1642.156	1568.459
17.5	1771.125	1836.811
20.0	1909.707	1842.419
22.5	2084.336	2069.917
25.0	2193.279	2150.824

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CANDELA TABULATION - (Cont.)

27.5	2371.914	2393.542
30.0	2545.742	2507.292
32.5	2713.963	2694.738
35.0	2863.760	2862.958
37.5	2903.812	2919.833
40.0	2810.089	2795.670
42.5	2689.931	2656.287
45.0	2449.616	2421.579
47.5	2343.877	2300.620
50.0	2242.143	2190.876
52.5	2146.017	2089.143
55.0	2061.106	1988.210
57.5	1968.184	1876.063
60.0	1884.073	1745.491
62.5	1827.199	1637.350
65.0	1811.178	1564.454
67.5	1779.136	1501.972
70.0	1713.449	1488.354
72.5	1412.254	1390.626
75.0	1344.165	1455.511
77.5	1209.588	1299.306
80.0	951.649	993.304
82.5	684.899	703.323
85.0	655.260	648.852
87.5	345.253	285.975
90.0	190.650	136.980
92.5	150.598	108.142
95.0	149.797	127.367
97.5	147.393	143.388
100.0	144.189	156.205
102.5	142.587	161.812
105.0	141.786	162.613
107.5	140.184	158.608
110.0	138.582	153.001
112.5	135.378	145.791
115.0	132.174	138.582
117.5	128.969	131.372
120.0	124.964	126.566
122.5	120.959	122.561
125.0	116.954	118.556
127.5	112.948	113.749
130.0	108.142	108.943
132.5	103.336	104.137
135.0	100.933	100.933
137.5	99.330	99.330
140.0	93.723	93.723
142.5	77.702	77.702
145.0	59.278	60.079
147.5	41.655	41.655
150.0	24.833	24.833
152.5	15.220	16.021
155.0	1.602	1.602
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	2.403	2.403

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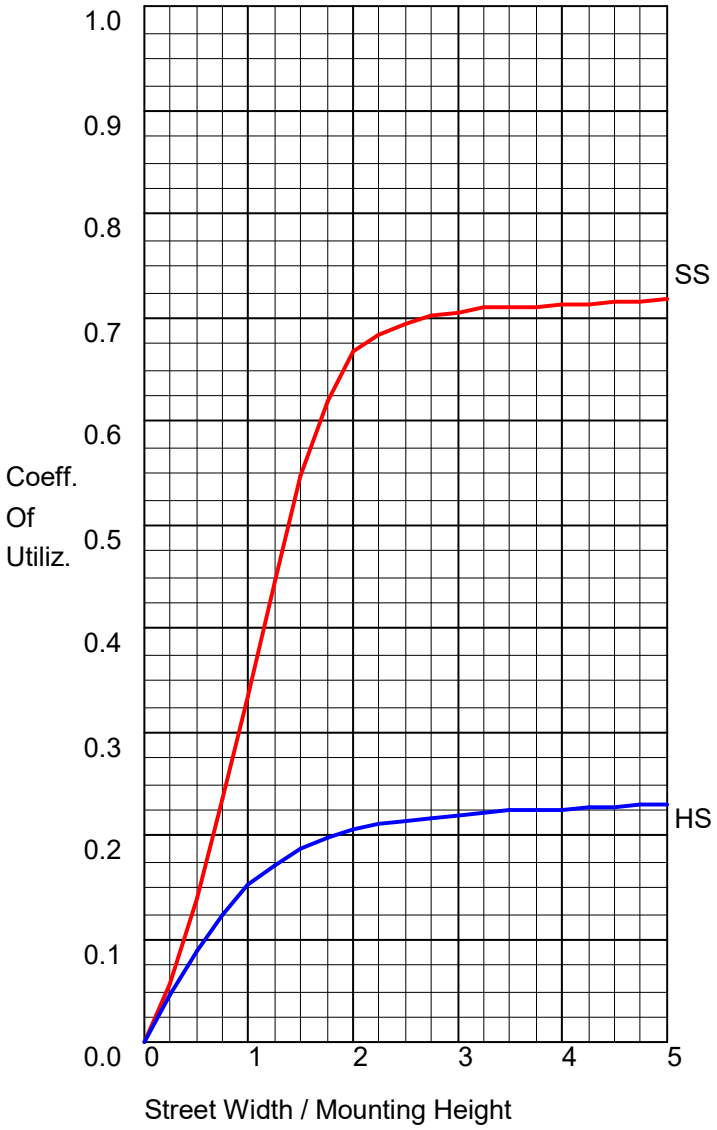
IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-20L-SIL-3-40-70CRI.IES

COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	15670.1	72.4
Downward House Side	5147.5	23.8
Downward Total	20817.6	96.2
Upward Street Side	365.1	1.7
Upward House Side	450.9	2.1
Upward Total	816.0	3.8
Total Flux	21633.6	100.0

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IES ROAD REPORT
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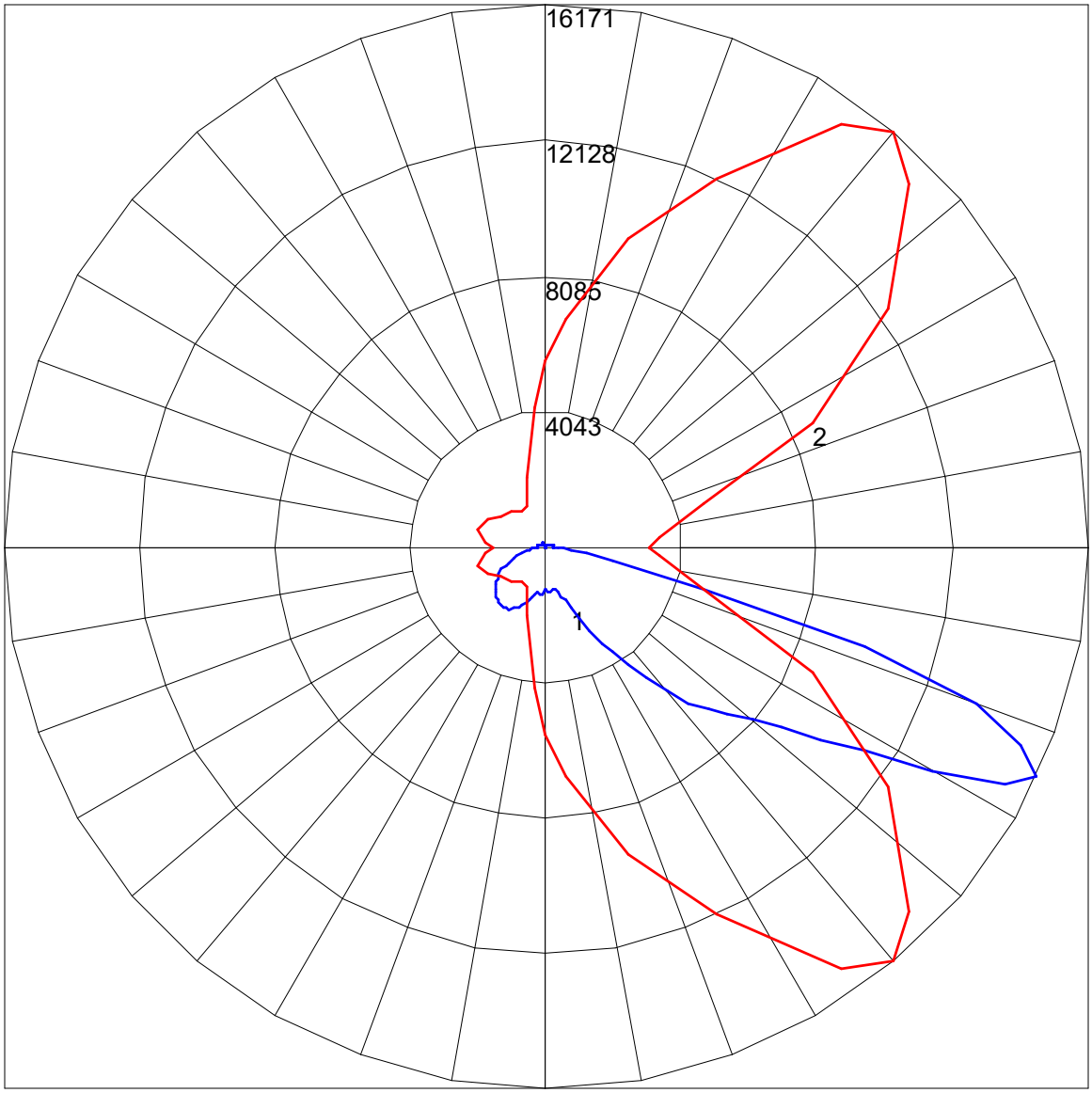
POLAR GRAPH



Maximum Candela = 16170.829 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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IES ROAD REPORT
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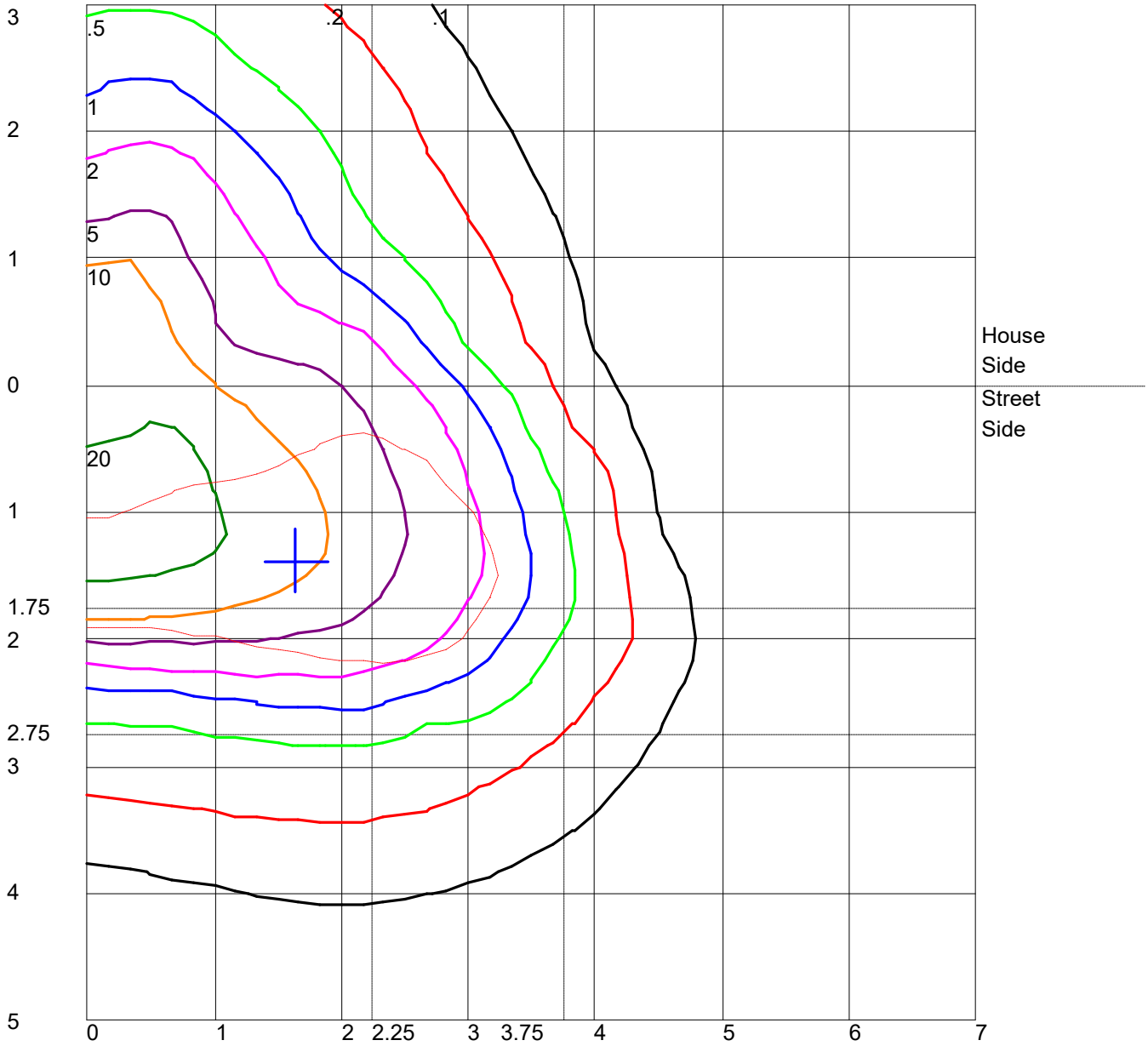
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



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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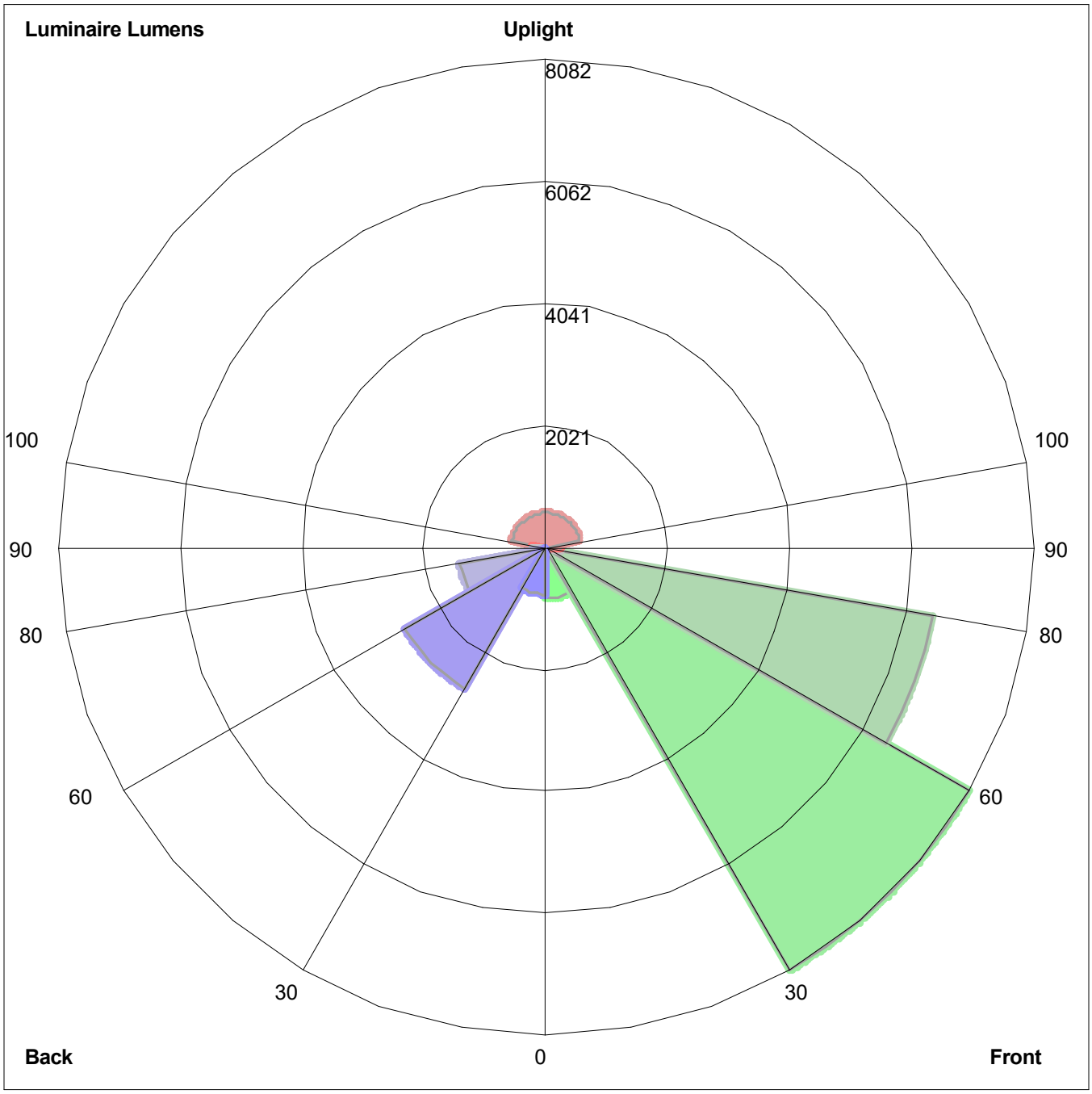
LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=844.8, Medium= 8082.0, High=6488.2, Very High=255.1
Back: Low=772.7, Medium=2689.5, High=1454.6, Very High=230.8
Uplight: Low=244.3, High=571.7

BUG Rating : B3-U4-G3

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