IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-10L-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-10L-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	10973
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	164
Total Luminaire Watts	67
Ballast Factor	1.00
Upward Waste Light Ratio	0.04
Maximum Candela	8202.02
Maximum Candela Angle	50H 65V
Maximum Candela (<90 Degrees Vertical)	8202.02
Maximum Candela Angle (<90 Degrees Vertical)	50H 65V
Maximum Candela At 90 Degrees Vertical	161.302 (1.5% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	622.861 (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)	428.5	N.A.	3.9
FM - Front-Medium (30-60)	4099.3	N.A.	37.4
FH - Front-High (60-80)	3290.9	N.A.	30.0
FVH - Front-Very High (80-90)	129.4	N.A.	1.2
BL - Back-Low (0-30)	391.9	N.A.	3.6
BM - Back-Medium (30-60)	1364.2	N.A.	12.4
BH - Back-High (60-80)	737.8	N.A.	6.7
BVH - Back-Very High (80-90)	117.0	N.A.	1.1
UL - Uplight-Low (90-100)	123.9	N.A.	1.1
UH - Uplight-High (100-180)	290.0	N.A.	2.6
Total	10972.9	N.A.	100.0
BUG Rating	B2-U3-G2		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	5	15	25	35	45	50	55	65	75
0.0	661.054	661.054	661.054	661.054	661.054	661.054	661.054	661.054	661.054	661.054
2.5	672.024	671.617	675.680	680.962	680.150	677.712	672.024	676.899	668.773	663.898
5.0	645.208	646.833	651.302	670.398	681.369	685.025	683.400	688.276	686.651	682.994
7.5	637.894	642.364	630.581	642.364	643.989	646.833	656.178	674.055	687.057	689.088
10.0	628.143	626.924	635.456	639.519	650.083	655.365	657.803	655.365	684.619	697.214
12.5	643.989	653.740	656.178	658.209	657.803	656.584	663.085	673.649	678.118	744.752
15.0	665.523	667.961	676.899	675.274	696.808	689.495	686.244	696.808	728.500	763.035
17.5	741.095	742.720	757.753	741.095	746.783	772.380	778.475	756.941	787.007	800.415
20.0	820.324	833.326	850.797	846.327	881.269	845.108	863.798	880.050	877.613	862.579
22.5	1001.128	1018.599	1040.946	1037.696	1026.725	1024.694	1001.128	1006.004	993.815	995.034
25.0	1275.789	1306.261	1258.318	1234.752	1262.787	1214.437	1198.185	1165.274	1170.556	1110.424
27.5	1629.271	1666.651	1623.177	1563.857	1489.097	1497.223	1413.525	1376.958	1333.483	1251.004
30.0	2024.197	2059.545	2020.947	1877.522	1806.825	1724.752	1686.966	1609.363	1480.159	1439.935
32.5	2276.917	2281.386	2280.574	2273.260	2123.335	2009.976	1892.555	1858.426	1661.776	1552.074
35.0	2525.980	2494.695	2490.632	2523.542	2511.760	2306.983	2181.436	2071.328	1809.263	1665.432
37.5	2761.635	2738.070	2718.567	2770.168	2797.796	2683.625	2501.602	2303.733	1996.162	1756.850
40.0	3065.143	3013.949	3015.574	3056.204	3085.052	3032.233	2843.708	2542.639	2170.872	1813.326
42.5	3402.374	3340.616	3367.432	3433.253	3403.186	3315.425	3204.098	2838.833	2316.735	1905.557
45.0	3831.429	3789.173	3838.336	3899.688	3808.676	3592.929	3468.601	3187.034	2397.995	1996.568
47.5	4356.777	4374.248	4388.469	4483.544	4326.711	3928.129	3738.386	3449.911	2569.861	2122.116
50.0	4936.977	4957.292	4946.322	5094.216	4935.352	4379.530	4068.709	3680.691	2817.705	2325.267
52.5	5636.629	5678.884	5575.684	5671.977	5552.931	5001.579	4500.202	4004.107	3180.533	2571.080
55.0	6361.878	6439.482	6423.230	6473.611	6291.994	5634.597	5080.401	4445.351	3643.717	2770.574
57.5	6307.840	6315.560	6541.464	7105.411	7214.300	6455.734	5743.893	5129.564	4090.649	3103.742
60.0	5671.977	5681.728	5925.103	6744.208	7630.760	7423.952	6776.713	5929.979	4725.293	3625.434
62.5	4004.107	4205.633	4823.618	5948.263	7074.126	8089.475	7820.503	6820.187	5396.911	4236.512
65.0	1569.139	1725.565	2490.632	4462.416	6324.905	7803.032	8202.020	7810.345	6157.508	4836.214
67.5	726.468	748.408	1023.069	1970.565	5041.803	7068.438	7803.844	8130.511	6419.573	4851.653
70.0	530.224	547.289	666.335	1062.886	2510.947	6027.492	6943.703	7459.300	6661.323	4524.174
72.5	403.864	415.241	520.473	750.440	1429.777	3560.832	5079.182	5884.473	5934.448	3377.589
75.0	303.508	317.322	416.866	600.514	916.211	1556.137	2454.065	3464.538	3542.548	1904.744
77.5	232.405	247.032	331.543	497.720	675.680	908.085	1052.322	1186.808	1364.362	601.327
80.0	176.741	199.088	269.785	406.708	512.753	602.140	622.861	602.546	503.408	394.926
82.5	137.330	162.115	222.654	337.637	377.048	389.644	380.299	386.800	349.420	311.634
85.0	125.547	157.645	175.523	254.751	264.096	279.130	248.657	242.969	245.000	247.438
87.5	84.105	103.607	130.423	181.211	151.957	178.367	165.771	156.020	168.209	186.086
90.0	40.630	49.569	73.134	85.730	99.544	112.546	117.421	122.297	132.454	143.018
92.5	47.537	50.788	73.947	85.730	98.325	112.952	114.983	120.265	130.423	138.143
95.0	54.038	52.413	75.166	86.949	98.325	111.733	114.171	117.421	129.204	132.454
97.5	58.914	53.632	75.166	87.761	98.325	109.702	112.952	112.952	123.922	112.139
100.0	62.164	55.257	74.760	88.168	97.919	108.076	110.920	108.483	113.765	88.574
102.5	64.196	57.289	73.947	88.574	97.919	106.045	108.076	104.013	99.138	71.103
105.0	65.415	59.726	72.728	88.980	97.513	103.201	103.201	95.075	84.511	65.415
107.5	66.227	62.164	71.103	88.980	96.294	98.325	94.668	83.292	71.103	61.352
110.0	66.634	63.789	69.478	88.168	94.262	89.793	83.698	72.322	61.352	58.914
112.5	66.227	65.008	67.852	86.949	90.199	80.042	73.134	64.196	54.851	56.476
115.0	66.227	65.415	66.634	83.698	83.292	71.509	65.415	58.914	51.194	54.444
117.5	66.227	65.821	65.415	78.416	75.166	65.008	60.539	55.663	49.163	53.226
120.0	66.227	65.415	62.977	70.697	68.665	60.945	57.289	53.226	48.350	52.007
122.5	65.008	64.196	59.320	63.789	63.789	58.508	55.257	52.007	47.944	50.381
125.0	62.164	61.352	56.070	58.101	60.133	56.476	54.038	51.600	47.944	49.569
127.5	58.914	58.101	53.632	54.038	57.289	55.257	54.038	52.007	48.756	49.975
130.0	55.663	54.851	52.413	51.600	55.257	55.257	54.444	52.413	49.569	50.788

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CANDELA TABULATION - (Cont.)

132.5	54.038	53.632	51.600	49.975	54.038	54.038	52.819	50.788	49.975	52.413
135.0	53.226	53.226	51.600	49.975	50.381	48.756	47.537	47.537	50.381	53.632
137.5	52.819	52.413	49.975	45.100	42.255	41.037	40.630	42.662	47.131	53.226
140.0	45.912	45.912	42.662	37.380	33.317	32.098	32.910	35.755	40.630	47.131
142.5	37.786	36.973	34.536	29.254	23.159	23.566	25.191	27.222	32.910	39.411
145.0	28.847	28.035	25.597	20.315	16.252	15.846	17.471	19.096	24.784	30.879
147.5	19.096	18.284	16.658	13.814	10.564	7.313	8.939	11.376	16.658	20.721
150.0	13.814	13.002	11.783	8.532	4.063	3.250	4.063	4.876	8.939	12.595
152.5	6.907	6.501	4.876	2.438	2.032	1.625	2.438	2.844	4.469	6.095
155.0	2.438	2.438	1.625	1.219	1.219	1.219	1.625	1.625	2.438	3.250
157.5	0.813	0.406	0.813	0.813	1.219	1.219	1.219	1.625	1.625	2.032
160.0	0.406	0.406	0.813	0.813	1.219	1.219	1.219	1.219	1.625	1.625
162.5	0.406	0.406	0.813	0.813	1.219	1.219	1.219	1.219	1.625	1.625
165.0	0.406	0.406	0.813	1.219	1.219	1.219	1.219	1.219	1.625	1.625
167.5	0.406	0.406	0.813	1.219	1.219	1.625	1.625	1.625	1.625	1.625
170.0	0.406	0.406	0.813	1.219	1.625	1.625	1.625	1.625	1.625	1.625
172.5	0.406	0.406	0.813	1.219	1.625	1.625	1.625	1.625	1.625	1.625
175.0	0.406	0.406	0.813	1.219	1.625	1.625	1.625	1.625	1.625	1.625
177.5	0.406	0.406	0.813	1.219	1.625	1.625	1.625	1.625	1.625	1.625
180.0	1.219	1.219	1.219	1.219	1.219	1.219	1.219	1.219	1.219	1.219

Vert. Angles	**Horizontal Angles**									
	85	**90**	**95**	**105**	**115**	**125**	**135**	**145**	**155**	**165**
0.0	661.054	661.054	661.054	661.054	661.054	661.054	661.054	661.054	661.054	661.054
2.5	659.428	654.553	653.334	656.178	654.146	656.584	656.990	660.241	665.117	670.398
5.0	664.710	655.772	657.397	675.680	703.715	710.622	708.997	711.029	704.934	703.715
7.5	680.962	669.180	671.617	705.340	720.780	720.374	708.997	693.964	674.461	668.773
10.0	694.370	680.150	685.432	725.656	735.407	708.997	704.934	705.340	714.279	696.402
12.5	741.095	721.999	740.689	780.913	745.971	724.843	721.186	741.501	729.312	762.629
15.0	781.725	750.034	770.349	808.541	781.319	791.070	771.974	817.480	812.604	836.576
17.5	827.231	801.228	832.513	852.828	818.699	826.012	883.301	868.674	864.205	912.961
20.0	904.022	864.611	891.020	883.707	878.425	902.397	900.365	942.215	946.278	968.218
22.5	1021.037	975.938	975.531	946.684	917.024	955.623	963.342	1011.286	999.909	1059.636
25.0	1110.017	1085.639	1047.447	992.190	980.813	990.565	1021.037	1051.916	1077.513	1106.361
27.5	1244.503	1160.805	1156.336	1042.165	993.002	1043.790	1071.419	1119.362	1125.863	1187.621
30.0	1344.860	1248.160	1233.533	1099.047	1029.163	1088.483	1118.956	1147.803	1181.120	1242.066
32.5	1410.275	1304.636	1277.820	1148.616	1049.072	1103.516	1121.394	1197.372	1268.069	1353.799
35.0	1483.003	1334.702	1289.197	1144.147	1045.822	1102.704	1144.553	1246.941	1328.608	1429.371
37.5	1515.101	1374.520	1302.605	1116.112	1023.475	1078.326	1166.900	1266.850	1354.205	1468.376
40.0	1546.386	1410.681	1290.009	1075.888	1001.535	1045.822	1172.994	1249.785	1355.017	1514.694
42.5	1622.364	1420.026	1290.009	1032.820	954.404	1036.477	1139.677	1203.873	1368.019	1590.673
45.0	1660.963	1454.155	1298.135	1010.067	900.772	1031.195	1095.390	1159.992	1458.625	1582.547
47.5	1744.255	1514.288	1297.729	986.095	857.704	991.783	1055.167	1133.177	1591.892	1527.290
50.0	1844.612	1625.615	1331.452	967.405	819.511	960.904	1027.132	1111.643	1625.208	1492.754
52.5	2027.854	1763.351	1420.432	977.563	796.352	920.274	991.377	1103.923	1584.578	1431.402
55.0	2233.036	1951.469	1579.296	992.596	780.913	876.800	951.153	1073.856	1524.445	1357.049
57.5	2561.328	2205.408	1783.666	1028.351	774.005	835.763	901.584	1022.256	1446.435	1287.165
60.0	3009.886	2553.202	2078.642	1075.075	757.347	777.256	849.984	956.841	1323.732	1209.561
62.5	3313.800	2801.453	2234.662	1113.674	723.624	708.185	793.102	881.676	1147.803	1130.739
65.0	3476.727	2835.582	2131.867	1090.109	667.961	635.456	739.064	811.385	957.248	1066.137
67.5	3187.440	2448.783	1693.873	942.215	607.015	558.665	666.335	736.219	805.291	993.815
70.0	2657.622	1875.084	1102.298	707.778	517.223	482.281	590.763	650.896	697.621	900.365
72.5	1736.535	1171.775	607.422	490.000	417.272	408.334	498.939	556.634	639.519	752.878
75.0	657.397	482.281	390.050	352.670	339.669	338.856	392.082	450.183	499.345	518.848
77.5	377.861	339.262	261.659	303.101	296.194	290.506	301.070	329.511	378.674	421.742

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CANDELA TABULATION - (Cont.)

80.0	281.161	264.096	205.995	270.597	264.909	253.939	268.972	289.693	319.353	338.856
82.5	234.843	212.090	175.523	238.093	227.529	214.934	237.280	255.564	278.317	282.786
85.0	205.995	153.582	159.270	212.090	198.682	191.775	198.275	202.338	236.062	236.468
87.5	171.053	93.043	156.426	184.055	173.897	169.834	172.272	164.146	164.146	177.554
90.0	121.891	73.947	145.862	161.302	153.988	143.831	153.176	146.675	139.362	134.892
92.5	91.418	104.013	131.642	156.020	149.113	138.143	145.456	142.206	134.486	125.141
95.0	88.980	129.204	122.297	151.957	145.050	130.829	140.987	137.736	132.454	123.516
97.5	95.887	130.423	120.265	140.581	136.518	120.265	134.486	131.642	128.391	118.640
100.0	101.576	121.078	116.609	123.110	128.391	112.546	128.391	126.766	124.328	112.546
102.5	97.106	110.108	108.483	108.483	118.640	108.076	122.703	122.703	121.078	106.045
105.0	88.980	98.325	99.138	97.106	108.076	104.420	117.015	118.640	117.421	98.731
107.5	80.042	87.355	89.793	88.574	97.919	99.950	112.546	114.983	112.952	90.199
110.0	72.322	78.416	81.667	82.073	88.980	94.668	107.670	111.327	108.076	81.667
112.5	66.634	71.915	74.760	76.791	81.667	90.199	102.388	108.076	103.607	74.353
115.0	62.164	66.634	69.478	73.134	76.791	86.136	97.106	103.607	97.919	68.259
117.5	58.914	62.977	65.415	70.290	73.134	83.292	93.043	98.731	91.012	62.977
120.0	56.476	59.726	62.571	67.852	71.103	80.854	89.386	93.043	83.292	59.320
122.5	54.851	57.289	59.726	65.415	69.884	78.823	85.730	87.761	74.760	56.882
125.0	52.819	55.257	57.695	63.383	69.071	76.791	82.479	81.260	66.227	55.257
127.5	52.413	54.444	56.882	62.571	68.665	75.978	78.823	74.760	58.914	53.226
130.0	52.819	54.444	57.289	62.571	68.259	74.760	75.572	68.259	54.038	52.007
132.5	54.038	55.663	58.101	62.977	66.634	71.509	71.509	62.164	51.194	50.788
135.0	55.663	57.289	59.320	62.977	64.602	64.602	64.196	57.289	49.569	49.975
137.5	56.882	58.101	59.726	60.945	59.320	55.663	52.819	48.350	48.756	49.975
140.0	52.819	54.851	55.257	54.038	50.788	45.506	40.224	38.192	41.849	45.506
142.5	45.100	47.131	46.725	44.693	40.630	34.536	28.035	28.441	32.910	36.973
145.0	35.348	36.567	36.973	34.536	29.660	23.972	19.096	18.690	23.972	28.035
147.5	23.972	24.784	25.597	23.972	19.909	14.221	11.783	13.002	15.439	18.690
150.0	14.627	15.033	15.439	14.627	10.970	6.907	4.876	7.313	10.158	11.376
152.5	7.313	7.720	7.720	7.313	5.688	4.063	2.844	2.438	4.063	6.907
155.0	4.063	4.469	4.469	4.063	3.657	2.844	2.032	1.219	0.813	0.813
157.5	2.844	2.844	2.844	2.844	2.844	2.438	1.625	0.813	0.000	0.000
160.0	2.032	2.438	2.438	2.438	2.438	2.438	1.625	0.813	0.000	0.000
162.5	2.032	2.032	2.438	2.438	2.438	2.032	1.625	0.406	0.000	0.000
165.0	2.032	2.032	2.032	2.438	2.438	2.032	1.219	0.406	0.000	0.000
167.5	2.032	2.032	2.032	2.438	2.438	2.032	1.219	0.406	0.000	0.000
170.0	2.032	2.032	2.032	2.438	2.032	2.032	1.219	0.406	0.000	0.000
172.5	2.032	2.032	2.032	2.032	2.032	2.032	1.219	0.406	0.000	0.000
175.0	2.032	2.032	2.032	2.032	2.032	1.625	1.219	0.406	0.000	0.000
177.5	1.625	2.032	2.032	2.032	2.032	1.625	1.219	0.406	0.000	0.000
180.0	1.219	1.219	1.219	1.219	1.219	1.219	1.219	1.219	1.219	1.219

Vert. Angles	**Horizontal Angles**	
	175	**180**
0.0	661.054	661.054
2.5	669.180	676.899
5.0	689.495	678.524
7.5	668.773	680.556
10.0	707.778	697.621
12.5	773.599	779.287
15.0	832.919	795.540
17.5	898.334	931.651
20.0	968.624	934.495
22.5	1057.198	1049.885
25.0	1112.455	1090.921

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CANDELA TABULATION - (Cont.)

27.5	1203.061	1214.031
30.0	1291.228	1271.726
32.5	1376.551	1366.800
35.0	1452.530	1452.124
37.5	1472.845	1480.971
40.0	1425.308	1417.994
42.5	1364.362	1347.298
45.0	1242.472	1228.251
47.5	1188.840	1166.900
50.0	1137.240	1111.236
52.5	1088.483	1059.636
55.0	1045.415	1008.442
57.5	998.284	951.560
60.0	955.623	885.332
62.5	926.775	830.481
65.0	918.649	793.508
67.5	902.397	761.816
70.0	869.080	754.909
72.5	716.311	705.340
75.0	681.775	738.251
77.5	613.516	659.022
80.0	482.687	503.815
82.5	347.388	356.733
85.0	332.355	329.105
87.5	175.116	145.050
90.0	96.700	69.478
92.5	76.385	54.851
95.0	75.978	64.602
97.5	74.760	72.728
100.0	73.134	79.229
102.5	72.322	82.073
105.0	71.915	82.479
107.5	71.103	80.448
110.0	70.290	77.604
112.5	68.665	73.947
115.0	67.040	70.290
117.5	65.415	66.634
120.0	63.383	64.196
122.5	61.352	62.164
125.0	59.320	60.133
127.5	57.289	57.695
130.0	54.851	55.257
132.5	52.413	52.819
135.0	51.194	51.194
137.5	50.381	50.381
140.0	47.537	47.537
142.5	39.411	39.411
145.0	30.066	30.473
147.5	21.128	21.128
150.0	12.595	12.595
152.5	7.720	8.126
155.0	0.813	0.813
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	1.219	1.219

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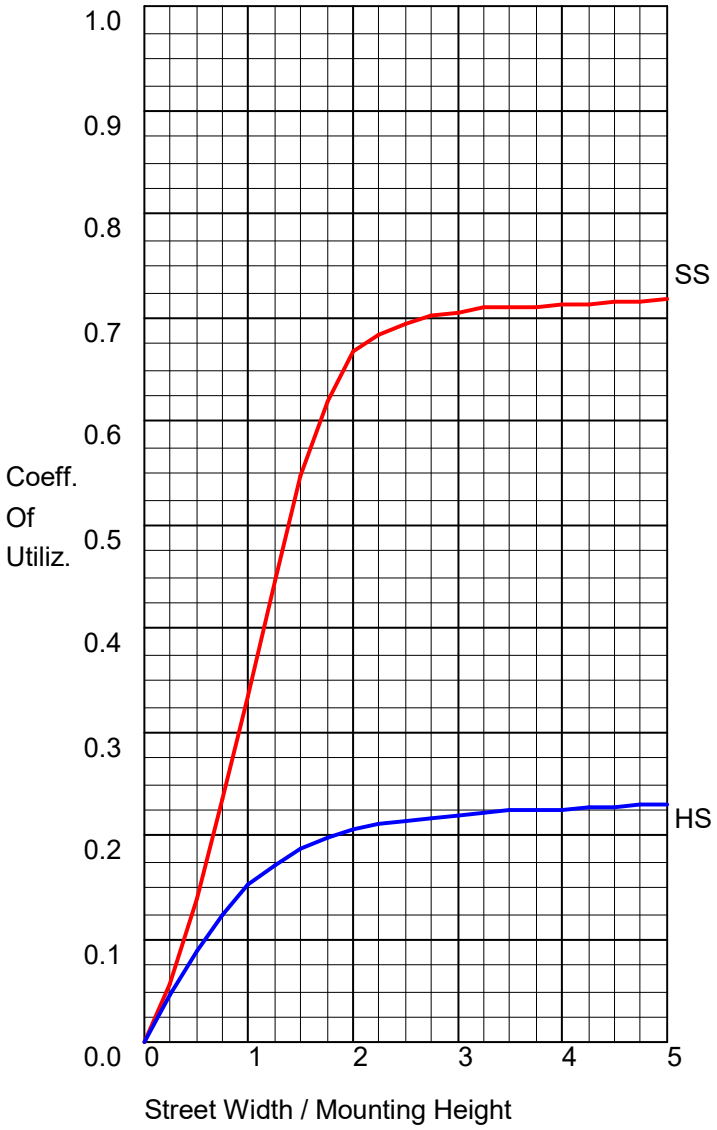
IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-10L-SIL-3-40-70CRI.IES

COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	7948.1	72.4
Downward House Side	2610.9	23.8
Downward Total	10559.0	96.2
Upward Street Side	185.2	1.7
Upward House Side	228.7	2.1
Upward Total	413.9	3.8
Total Flux	10972.9	100.0

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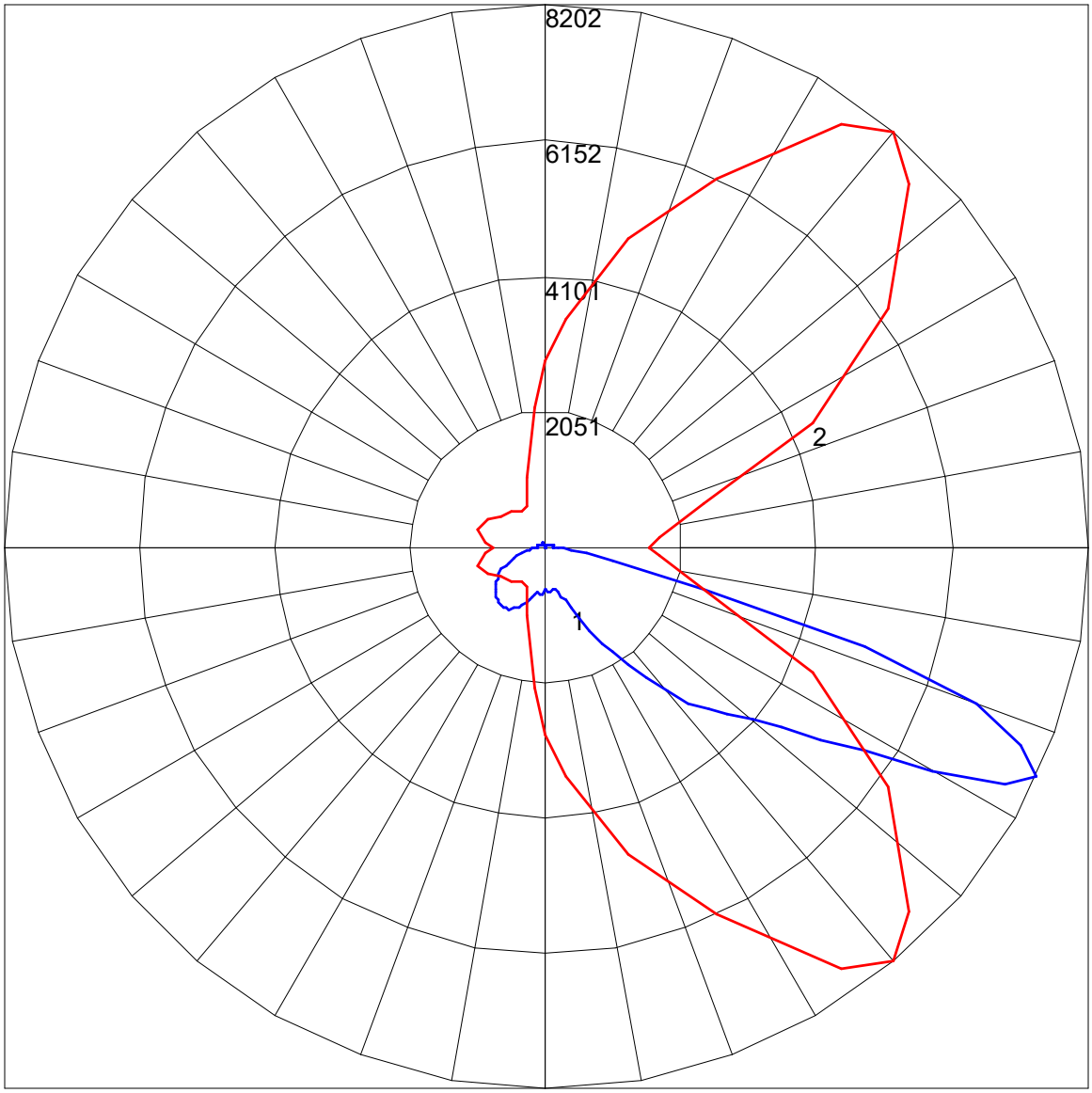
IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-10L-SIL-3-40-70CRI.IES

POLAR GRAPH



Maximum Candela = 8202.02 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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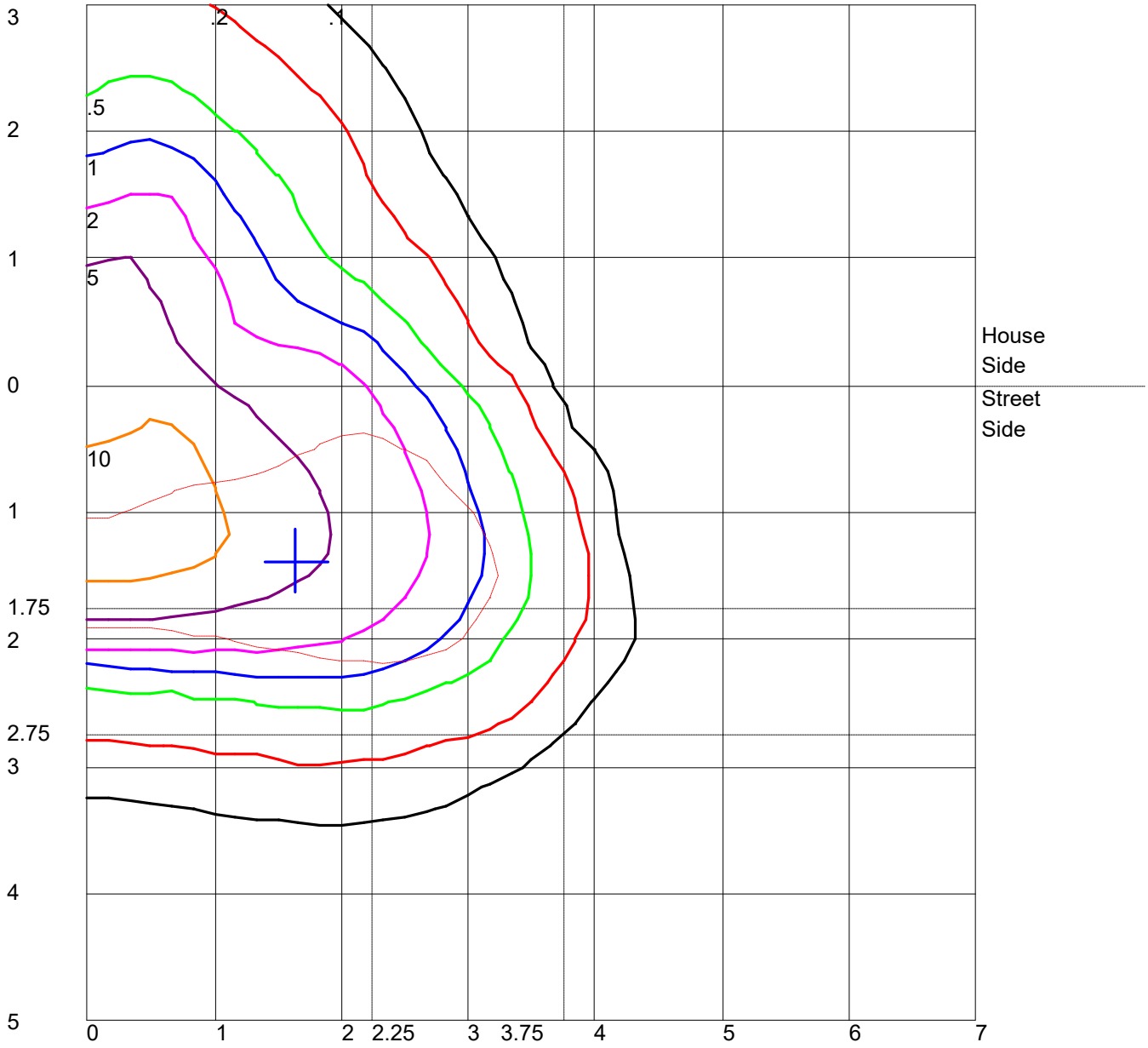
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



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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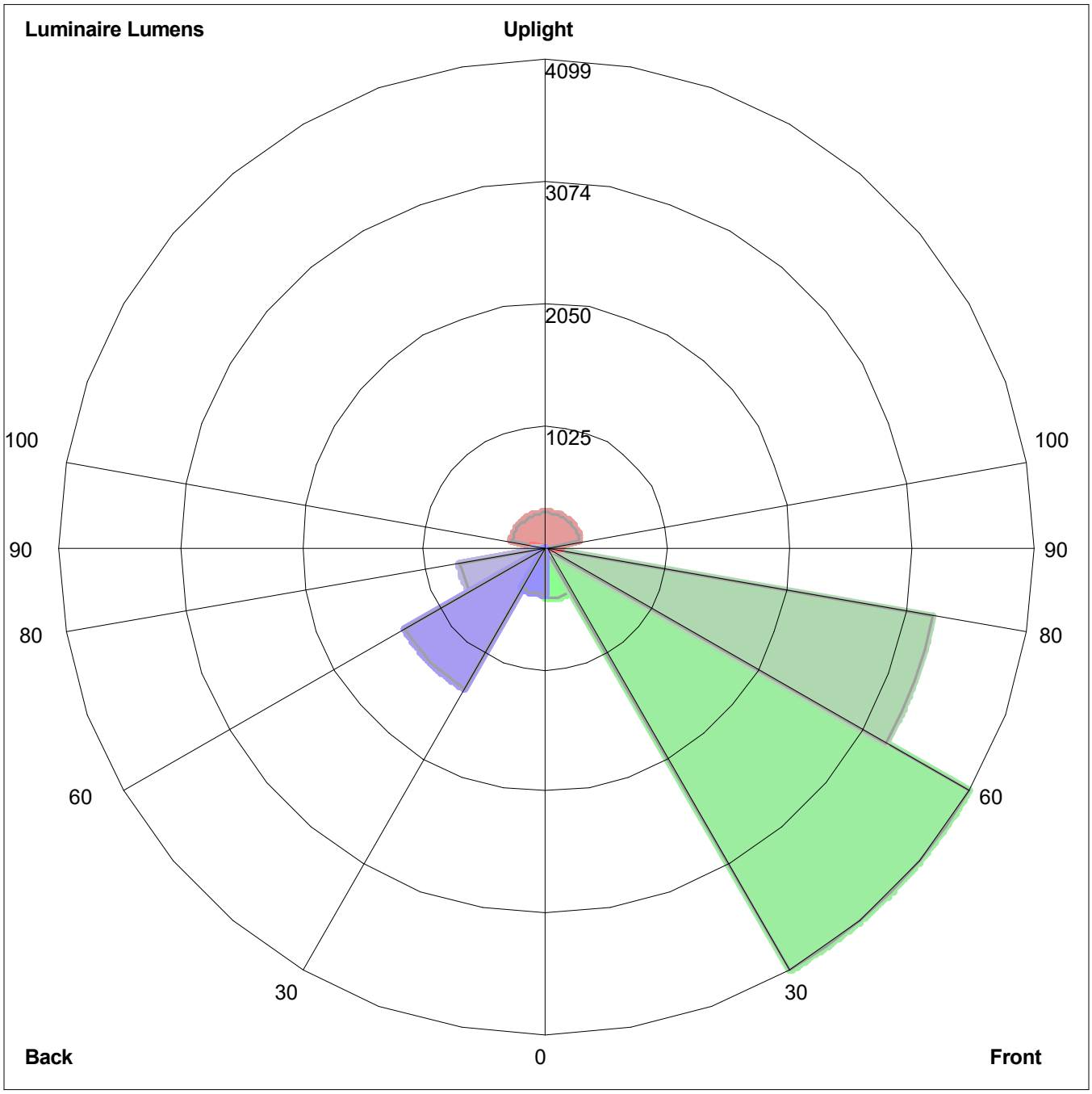
IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-10L-SIL-3-40-70CRI.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=428.5, Medium=4099.3, High=3290.9, Very High=129.4
Back: Low=391.9, Medium=1364.2, High=737.8, Very High=117.0
Uplight: Low=123.9, High=290.0

BUG Rating : B2-U3-G2

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