IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-10L-SIL-5W-40-70CRI.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-12507
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUEDATE] 03/30/21
[TESTDATE] 02/19/21
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] MPP-LED-10L-SIL-5W-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 VS
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10557
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	158
Total Luminaire Watts	67
Ballast Factor	1.00
Upward Waste Light Ratio	0.04
Maximum Candela	4701.751
Maximum Candela Angle	45H 72.5V
Maximum Candela (<90 Degrees Vertical)	4701.751
Maximum Candela Angle (<90 Degrees Vertical)	45H 72.5V
Maximum Candela At 90 Degrees Vertical	149.52 (1.4% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1161.217 (11.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	421.2	N.A.	4.0
FM - Front-Medium (30-60)	2125.2	N.A.	20.1
FH - Front-High (60-80)	2407.3	N.A.	22.8
FVH - Front-Very High (80-90)	118.8	N.A.	1.1
BL - Back-Low (0-30)	421.2	N.A.	4.0
BM - Back-Medium (30-60)	2125.2	N.A.	20.1
BH - Back-High (60-80)	2407.3	N.A.	22.8
BVH - Back-Very High (80-90)	118.8	N.A.	1.1
UL - Uplight-Low (90-100)	122.9	N.A.	1.2
UH - Uplight-High (100-180)	289.3	N.A.	2.7
Total	10557.2	N.A.	100.0
BUG Rating	B3-U3-G2		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	5	15	25	35	45	55	65	75	85
0.0	651.305	651.305	651.305	651.305	651.305	651.305	651.305	651.305	651.305	651.305
2.5	653.337	653.337	657.400	655.775	657.806	656.587	655.775	653.337	652.118	648.868
5.0	662.276	660.244	665.526	672.027	681.778	682.997	683.810	681.372	662.682	652.931
7.5	669.183	665.932	667.558	672.027	675.684	677.309	684.216	687.467	679.340	669.589
10.0	699.249	702.906	699.656	709.407	708.188	698.030	689.904	695.186	700.468	689.498
12.5	763.852	762.226	759.789	747.600	752.069	734.598	727.691	731.347	757.757	743.536
15.0	807.326	828.860	823.985	816.671	819.515	784.980	791.480	790.261	793.918	780.104
17.5	930.030	907.683	915.809	889.806	893.463	896.307	853.239	852.020	848.363	847.957
20.0	985.694	999.914	1001.133	985.694	990.163	958.471	967.816	936.937	896.713	908.496
22.5	1119.368	1126.681	1125.462	1088.489	1104.335	1062.485	1051.515	1014.541	991.382	993.820
25.0	1214.849	1220.131	1221.756	1209.161	1201.848	1169.343	1135.214	1120.587	1060.860	1060.860
27.5	1355.837	1349.336	1352.586	1324.145	1321.301	1291.234	1246.135	1195.753	1140.496	1167.312
30.0	1463.914	1475.290	1469.602	1449.693	1439.942	1411.907	1357.462	1282.296	1254.667	1226.632
32.5	1548.425	1552.488	1583.773	1603.276	1567.927	1518.765	1467.164	1373.714	1322.114	1284.327
35.0	1599.619	1599.619	1641.469	1708.102	1727.605	1641.062	1552.894	1450.912	1377.777	1311.143
37.5	1651.220	1643.906	1695.101	1780.831	1839.745	1780.425	1616.684	1499.668	1409.063	1340.804
40.0	1685.349	1683.724	1744.263	1849.903	1921.818	1904.754	1684.943	1565.490	1426.127	1373.714
42.5	1734.918	1725.167	1793.020	1910.036	1993.734	1988.046	1775.955	1594.337	1455.788	1410.282
45.0	1787.332	1771.080	1840.964	1969.762	2059.149	2066.463	1911.254	1630.092	1502.106	1441.567
47.5	1838.120	1832.838	1884.845	2029.489	2123.751	2124.970	2007.142	1684.130	1561.427	1478.541
50.0	1898.253	1898.253	1940.508	2088.403	2193.636	2192.417	2075.808	1734.512	1655.283	1516.733
52.5	1966.512	1966.918	2007.142	2151.786	2268.396	2275.303	2143.660	1877.531	1722.729	1600.026
55.0	2046.554	2044.928	2089.622	2229.391	2347.625	2371.597	2222.077	2000.235	1743.451	1673.567
57.5	2137.972	2143.254	2184.697	2323.247	2446.357	2473.986	2315.527	2129.033	1832.838	1742.232
60.0	2246.049	2254.581	2302.525	2428.480	2580.844	2614.973	2440.262	2270.021	1922.225	1860.466
62.5	2371.191	2378.504	2445.138	2571.092	2759.617	2817.719	2598.315	2381.755	2098.967	1946.603
65.0	2480.080	2494.301	2573.936	2737.677	3013.151	3052.969	2768.556	2541.838	2308.620	2125.783
67.5	2540.619	2558.091	2667.386	2905.887	3324.786	3387.357	3100.913	2776.276	2563.779	2385.005
70.0	2536.963	2568.248	2666.980	3027.778	3740.029	4026.067	3624.232	3094.818	2812.843	2572.311
72.5	2158.287	2194.042	2422.791	2908.325	3922.866	4701.751	4009.409	2944.892	2405.727	2110.750
75.0	954.002	1000.321	1370.870	2087.997	3420.268	4345.016	3227.680	2077.839	1511.045	1266.450
77.5	271.817	292.539	373.393	691.936	1932.382	2976.990	2108.718	958.471	587.516	430.276
80.0	194.620	214.935	248.658	295.789	526.570	1161.217	687.467	349.422	301.478	266.942
82.5	145.863	168.616	197.464	222.655	280.756	357.548	292.945	255.159	242.564	217.779
85.0	106.452	129.611	159.271	175.117	204.371	242.157	213.716	204.777	206.402	185.275
87.5	77.604	97.919	130.830	141.800	157.240	175.523	162.928	168.210	176.336	157.240
90.0	52.007	69.884	104.826	115.797	125.548	132.049	129.611	140.581	149.520	127.173
92.5	52.413	66.634	101.982	112.953	122.298	128.798	125.548	138.143	145.457	111.734
95.0	59.320	66.634	100.357	111.327	119.453	126.361	120.672	133.674	137.737	105.233
97.5	64.602	65.821	96.700	108.077	115.797	122.298	115.390	125.954	121.079	105.233
100.0	69.072	65.415	92.637	105.233	111.734	117.422	110.108	116.203	101.982	104.014
102.5	71.103	65.415	88.168	103.201	108.889	112.140	104.826	104.014	86.543	97.513
105.0	71.103	65.009	83.292	100.763	106.045	107.671	97.919	91.825	78.417	90.200
107.5	70.291	65.415	78.010	98.326	103.608	102.389	89.387	80.855	73.541	83.699
110.0	69.884	65.821	73.947	96.294	101.170	96.294	82.073	73.947	69.884	78.010
112.5	68.665	66.228	70.291	92.637	96.700	88.981	76.791	68.665	67.040	72.728
115.0	67.446	66.228	67.040	87.762	91.418	82.886	73.135	65.009	65.009	68.665
117.5	67.040	66.228	64.602	81.667	85.324	78.823	70.291	62.571	63.790	65.009
120.0	66.228	65.415	62.165	74.354	79.636	75.166	68.259	61.352	62.165	62.571
122.5	64.602	64.196	59.727	67.853	74.354	72.322	66.228	60.539	60.539	60.133
125.0	62.165	61.758	57.695	62.165	69.884	69.478	65.009	60.133	58.914	58.101
127.5	59.727	59.320	56.070	57.695	65.415	66.634	64.602	60.133	58.914	57.289
130.0	57.695	57.289	55.257	54.851	61.352	64.602	63.790	60.133	58.914	57.695

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CANDELA TABULATION - (Cont.)

132.5	56.070	55.664	54.445	52.820	58.101	62.165	60.946	59.320	59.727	58.101
135.0	55.257	55.257	54.038	52.413	54.038	55.257	55.257	57.695	59.320	59.320
137.5	55.257	54.851	53.226	49.163	45.912	45.912	47.944	52.820	57.289	58.914
140.0	49.163	49.163	46.725	41.849	36.567	35.348	39.411	44.693	49.975	53.632
142.5	40.630	40.630	38.193	32.911	27.222	25.597	29.254	34.942	41.037	45.100
145.0	31.285	30.879	28.848	24.378	19.503	17.877	20.722	25.191	30.879	34.536
147.5	21.940	21.534	19.909	16.658	13.408	10.564	12.595	17.065	20.722	23.159
150.0	15.440	15.033	13.814	11.377	6.907	4.469	5.688	9.751	12.595	13.814
152.5	9.751	9.751	7.720	4.876	2.844	1.625	2.844	4.469	6.501	7.313
155.0	3.657	3.657	2.844	2.032	1.219	0.813	1.219	2.032	2.844	3.250
157.5	1.219	1.219	1.219	0.813	0.813	0.813	0.813	1.219	1.625	1.625
160.0	0.813	0.813	0.813	0.813	0.813	0.813	0.813	1.219	1.625	1.625
162.5	0.813	0.813	1.219	0.813	0.813	0.813	1.219	1.219	1.625	1.625
165.0	0.813	0.813	0.813	0.813	0.813	0.813	0.813	1.219	1.625	1.625
167.5	0.813	0.813	0.813	0.813	0.813	0.813	0.813	1.219	1.625	1.625
170.0	0.813	0.813	0.813	0.813	0.813	0.813	1.219	1.219	1.625	1.625
172.5	0.813	0.813	0.813	0.813	0.813	0.813	0.813	1.219	1.219	1.219
175.0	0.813	0.813	0.813	0.813	0.813	0.813	0.813	1.219	1.219	1.219
177.5	0.813	0.813	0.813	0.813	0.813	0.813	0.813	1.219	1.219	1.219
180.0	0.813	0.813	0.813	0.813	0.813	0.813	0.813	0.813	0.813	0.813

Vert. Angles	**Horizontal Angles**
	90
0.0	651.305
2.5	647.242
5.0	650.493
7.5	663.088
10.0	681.372
12.5	727.284
15.0	779.698
17.5	832.111
20.0	882.086
22.5	970.254
25.0	1061.266
27.5	1132.370
30.0	1218.100
32.5	1245.728
35.0	1285.952
37.5	1328.208
40.0	1368.432
42.5	1395.248
45.0	1416.782
47.5	1470.415
50.0	1505.357
52.5	1597.181
55.0	1641.469
57.5	1751.577
60.0	1826.743
62.5	1935.633
65.0	2126.596
67.5	2356.564
70.0	2547.933
72.5	2058.337
75.0	1217.693
77.5	433.120

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CANDELA TABULATION - (Cont.)

80.0	277.099
82.5	221.842
85.0	163.741
87.5	104.826
90.0	75.573
92.5	97.919
95.0	121.891
97.5	122.298
100.0	114.171
102.5	104.420
105.0	95.075
107.5	86.949
110.0	80.042
112.5	74.354
115.0	69.478
117.5	65.821
120.0	62.977
122.5	60.133
125.0	58.101
127.5	56.883
130.0	57.289
132.5	57.695
135.0	58.914
137.5	59.320
140.0	54.038
142.5	45.506
145.0	35.348
147.5	23.159
150.0	13.408
152.5	7.313
155.0	3.250
157.5	1.625
160.0	1.625
162.5	1.625
165.0	1.219
167.5	1.625
170.0	1.625
172.5	1.219
175.0	1.219
177.5	1.219
180.0	0.813

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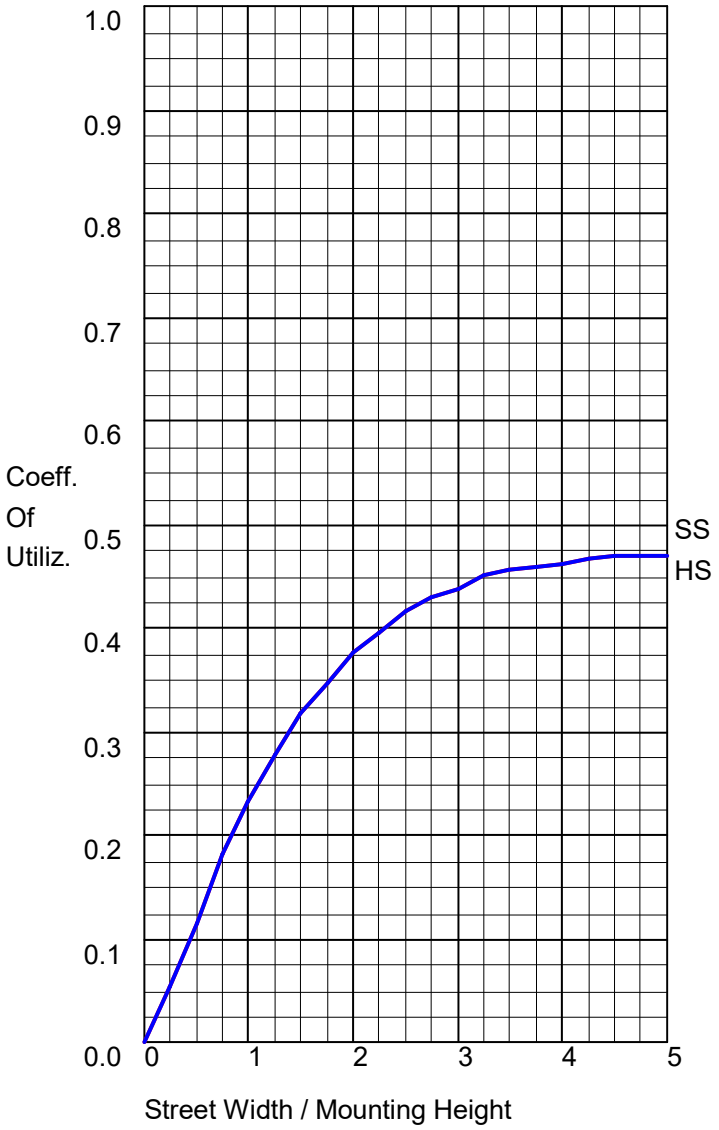
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	5072.5	48.0
Downward House Side	5072.5	48.0
Downward Total	10145.0	96.1
Upward Street Side	206.1	2.0
Upward House Side	206.1	2.0
Upward Total	412.2	3.9
Total Flux	10557.2	100.0

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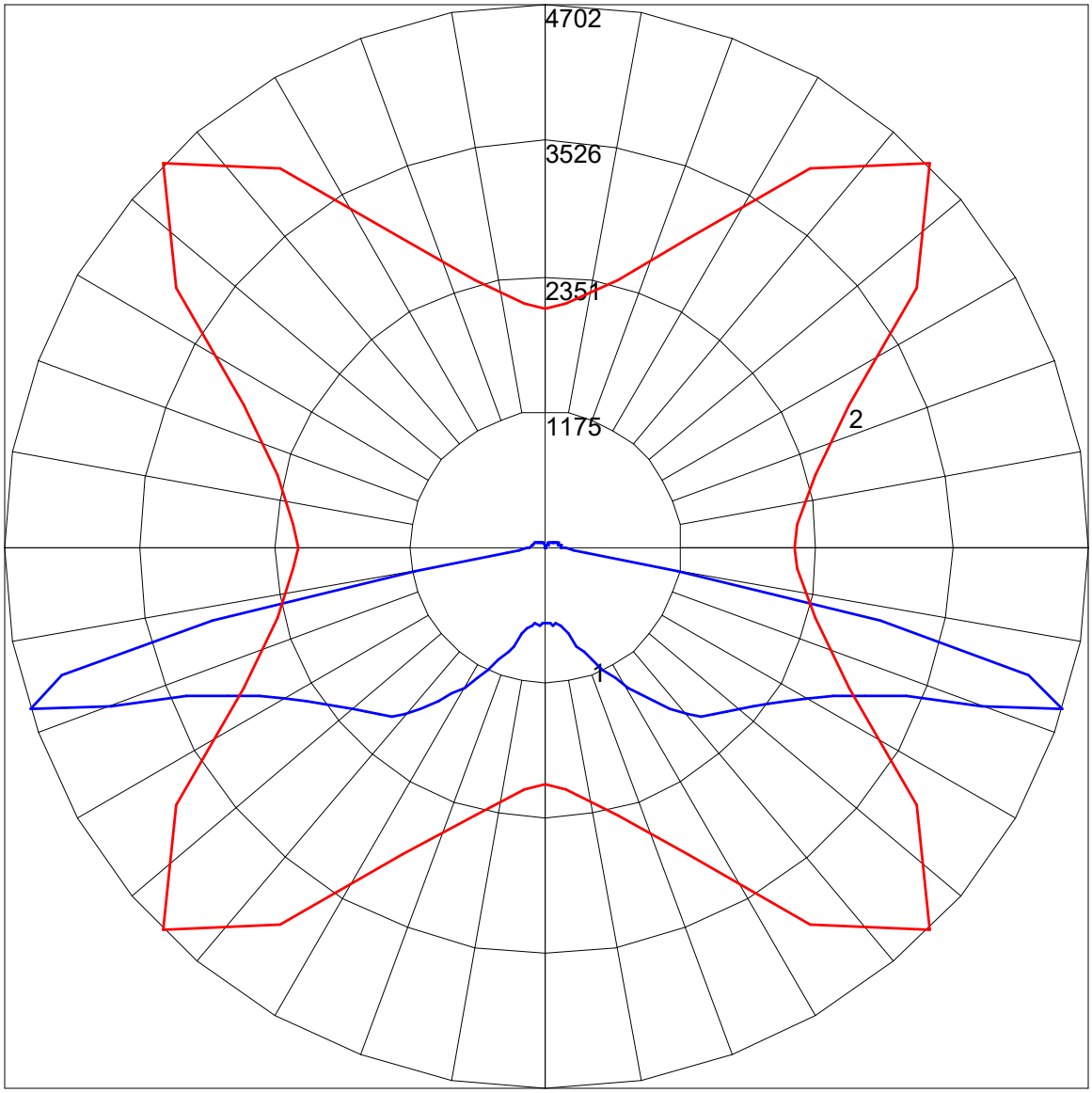
POLAR GRAPH



Maximum Candela = 4701.751 Located At Horizontal Angle = 45, Vertical Angle = 72.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (72.5) (Through Max. Cd.)

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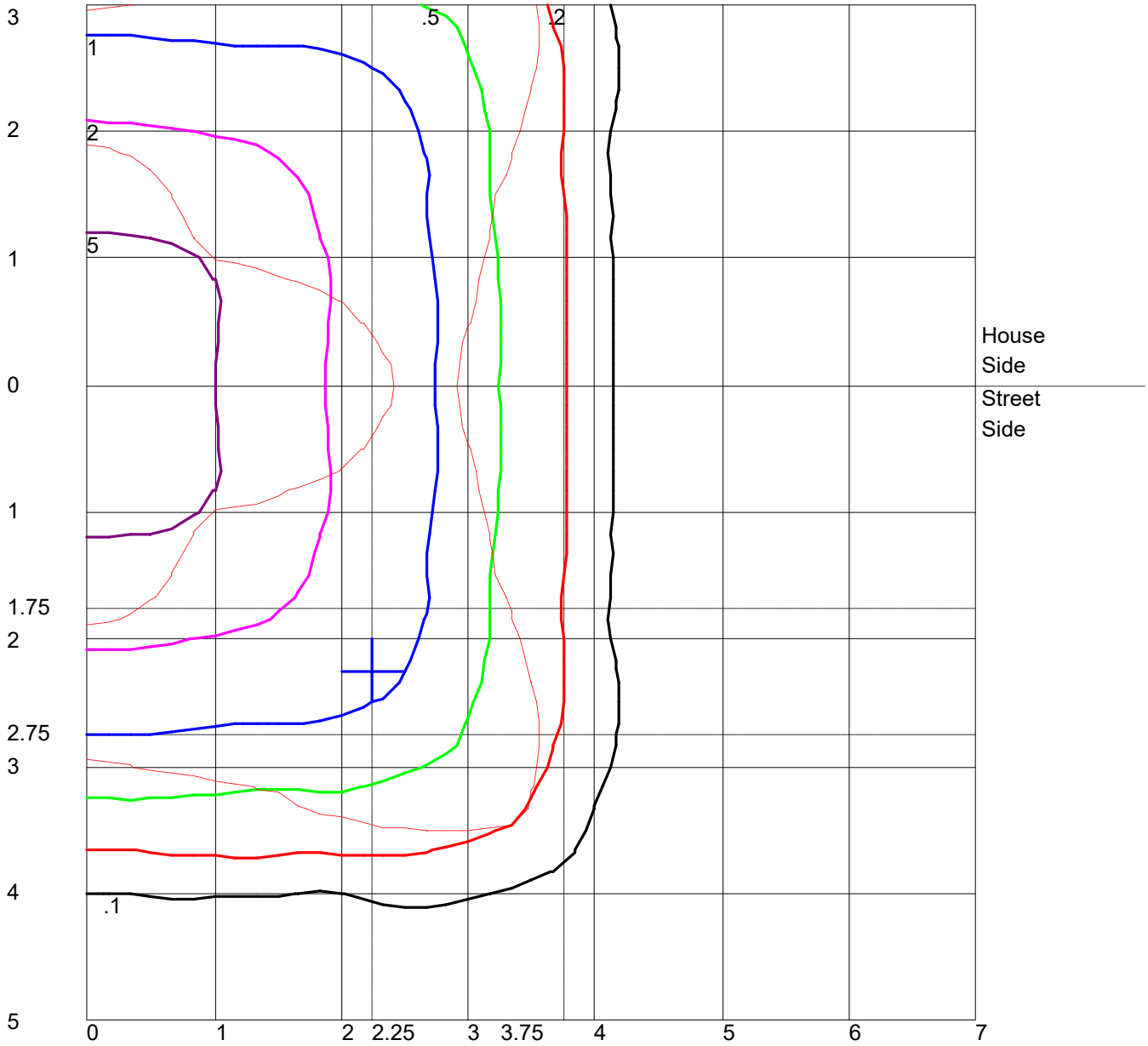
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



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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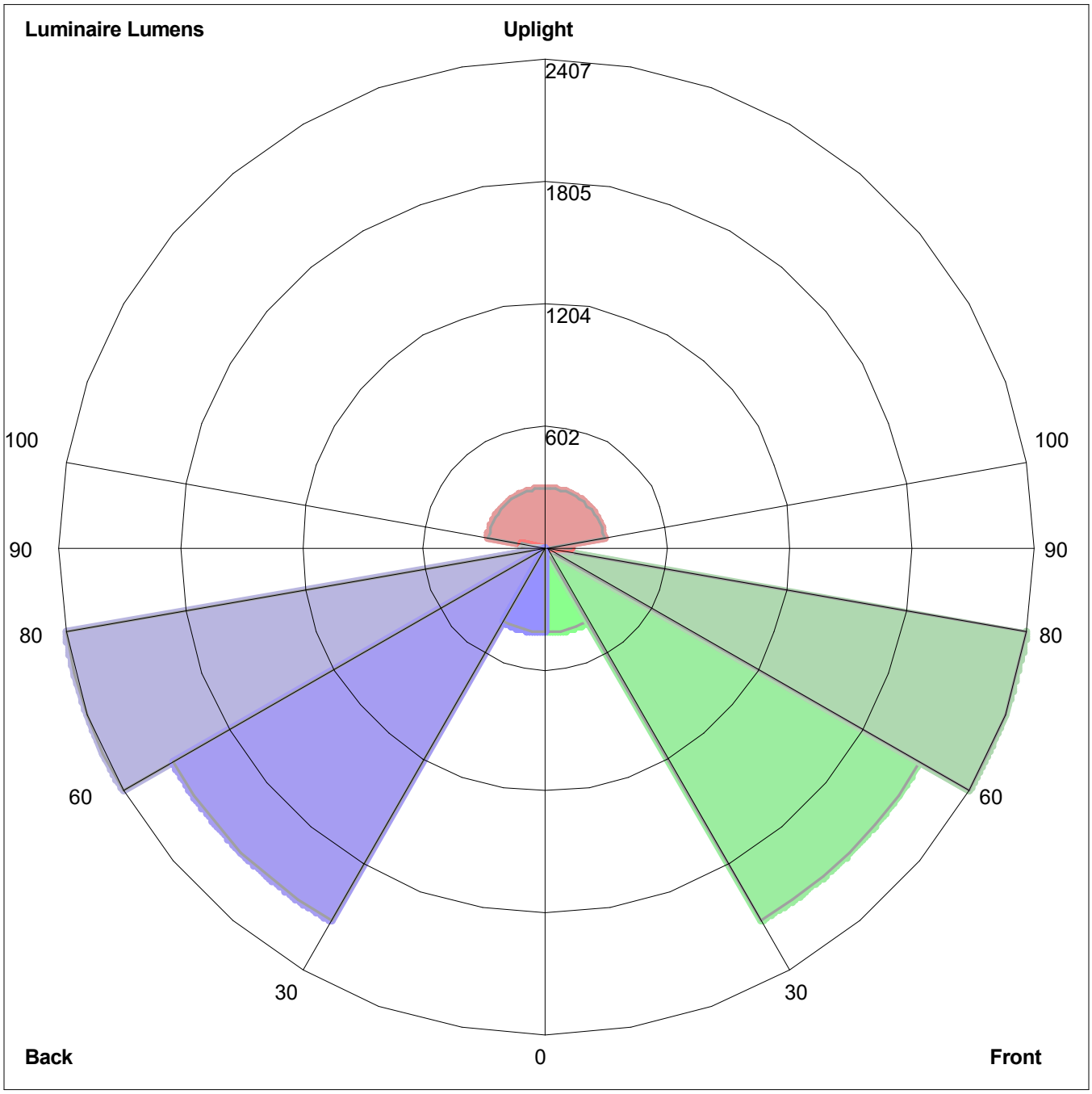
LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=421.2, Medium=2125.2, High=2407.3, Very High=118.8
Back: Low=421.2, Medium=2125.2, High=2407.3, Very High=118.8
Uplight: Low=122.9, High=289.3

BUG Rating : B3-U3-G2

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