



IES ROAD REPORT

PHOTOMETRIC FILENAME : XMR-5W-LED-29-30-IL.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-7783
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]11/21/16
[TEST DATE]05/05/16
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMCAT]XMR-5W-LED-29-30-IL
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor
[OTHER]SCALED FROM ORIGINAL TEST DATA

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	14825
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	61
Total Luminaire Watts	241.3
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	12048.02
Maximum Candela Angle	45H 70V
Maximum Candela (<90 Degrees Vertical)	12048.02
Maximum Candela Angle (<90 Degrees Vertical)	45H 70V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	580.513 (3.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	946.5	N.A.	6.4
FM - Front-Medium (30-60)	5105.0	N.A.	34.4
FH - Front-High (60-80)	5229.1	N.A.	35.3
FVH - Front-Very High (80-90)	51.8	N.A.	0.3
BL - Back-Low (0-30)	860.0	N.A.	5.8
BM - Back-Medium (30-60)	1870.7	N.A.	12.6
BH - Back-High (60-80)	756.8	N.A.	5.1
BVH - Back-Very High (80-90)	5.3	N.A.	0.0
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	14825.2	N.A.	100.0
BUG Rating	B2-U0-G3		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>5.0</u>	<u>15.0</u>	<u>25.0</u>	<u>35.0</u>	<u>45.0</u>	<u>47.5</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	1684.779	1684.779	1684.779	1684.779	1684.779	1684.779	1684.779	1684.779	1684.779	1684.779
2.5	1709.720	1689.079	1689.079	1690.799	1688.219	1687.359	1672.739	1684.779	1685.639	1681.339
5.0	1718.320	1698.539	1698.539	1701.120	1699.399	1699.399	1685.639	1701.980	1703.700	1701.120
7.5	1745.841	1726.060	1728.640	1731.220	1732.080	1736.380	1721.760	1737.240	1740.680	1737.240
10.0	1792.282	1774.221	1777.661	1781.101	1784.541	1791.422	1777.661	1793.142	1794.002	1794.002
12.5	1859.363	1840.443	1845.603	1851.623	1861.083	1866.243	1853.343	1868.823	1866.243	1867.103
15.0	1938.485	1922.145	1930.745	1947.085	1956.545	1961.706	1949.665	1964.286	1959.986	1957.405
17.5	2032.227	2018.467	2033.947	2063.188	2070.928	2082.108	2071.788	2081.248	2070.928	2062.328
20.0	2135.430	2124.249	2153.490	2190.471	2208.531	2224.872	2216.271	2217.992	2195.631	2176.711
22.5	2247.232	2239.492	2280.773	2334.094	2374.515	2389.136	2381.395	2375.375	2338.394	2304.854
25.0	2370.215	2365.055	2421.816	2495.778	2555.979	2584.360	2577.480	2553.399	2499.218	2456.217
27.5	2522.439	2513.838	2578.340	2672.082	2752.924	2786.465	2782.165	2756.364	2672.942	2608.441
30.0	2661.762	2657.462	2738.304	2861.286	2962.769	3005.770	3002.330	2961.909	2864.727	2773.564
32.5	2809.685	2809.685	2907.728	3056.511	3186.374	3239.695	3236.255	3182.074	3063.391	2954.169
35.0	2968.789	2973.089	3088.332	3262.916	3417.719	3486.521	3482.221	3425.460	3285.276	3145.093
37.5	3150.253	3163.153	3282.696	3483.941	3664.545	3749.687	3755.707	3675.725	3508.022	3343.758
40.0	3321.397	3340.318	3480.501	3707.546	3919.111	4035.214	4026.614	3936.311	3741.087	3573.383
42.5	3529.522	3549.302	3706.686	3943.192	4196.898	4312.140	4303.540	4211.518	3993.933	3801.288
45.0	3769.468	3790.108	3953.512	4196.898	4473.824	4599.387	4596.807	4502.205	4248.499	4033.494
47.5	3982.753	4013.713	4192.597	4489.304	4767.951	4902.114	4907.274	4794.611	4515.105	4291.500
50.0	4252.799	4284.620	4457.484	4762.791	5083.578	5222.901	5239.242	5101.639	4811.812	4583.907
52.5	4550.366	4597.667	4782.571	5075.838	5408.666	5596.150	5616.791	5428.446	5109.379	4875.453
55.0	4880.613	4902.114	5080.998	5391.465	5762.134	5985.739	6005.520	5795.675	5438.766	5207.421
57.5	5234.082	5259.882	5449.947	5754.394	6154.303	6426.069	6442.410	6213.644	5847.276	5547.129
60.0	5587.550	5627.971	5809.435	6134.523	6613.554	6940.361	6961.002	6681.495	6259.225	5954.778
62.5	5950.478	6002.939	6258.365	6594.633	7184.607	7612.037	7629.237	7281.789	6811.358	6549.912
65.0	6307.387	6352.108	6652.255	7193.207	8106.548	8630.301	8684.482	8251.032	7748.780	7412.512
67.5	6228.265	6260.085	6750.297	7521.735	9320.037	10747.670	10714.129	9756.927	8590.740	7862.303
70.0	4170.237	4225.278	5100.779	6859.519	9301.116	12048.020	11998.139	10235.958	7907.884	6317.707
72.5	964.942	975.263	1428.493	3430.620	7544.955	10494.824	10321.960	8370.574	5543.689	3815.049
75.0	288.967	307.887	402.489	810.139	2699.603	7305.870	7095.165	4950.275	2531.039	1423.333
77.5	127.283	131.583	146.203	230.485	668.236	1949.665	2192.191	1789.702	895.281	524.612
80.0	71.382	71.382	80.842	102.342	168.564	454.951	580.513	575.353	472.151	314.767
82.5	39.561	39.561	44.721	59.341	79.122	109.223	116.963	206.405	254.566	204.685
85.0	18.060	18.920	23.221	30.101	45.581	59.341	62.781	80.842	125.563	156.524
87.5	12.040	12.040	14.620	18.060	22.361	32.681	35.261	49.021	79.982	121.263
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles	Horizontal Angles									
	<u>85.0</u>	<u>90.0</u>	<u>95.0</u>	<u>105.0</u>	<u>115.0</u>	<u>125.0</u>	<u>135.0</u>	<u>145.0</u>	<u>155.0</u>	<u>165.0</u>
0.0	1684.779	1684.779	1684.779	1684.779	1684.779	1684.779	1684.779	1684.779	1684.779	1684.779
2.5	1681.339	1688.219	1687.359	1687.359	1686.499	1693.379	1693.379	1695.959	1693.379	1693.379
5.0	1703.700	1709.720	1711.440	1716.600	1717.460	1726.060	1726.060	1729.500	1726.060	1728.640
7.5	1742.400	1750.141	1752.721	1761.321	1765.621	1776.801	1777.661	1781.101	1777.661	1782.821
10.0	1799.162	1808.622	1812.922	1825.822	1832.703	1848.183	1849.903	1851.623	1844.743	1848.183
12.5	1877.424	1884.304	1896.344	1910.104	1920.425	1939.345	1946.225	1945.365	1930.745	1929.885
15.0	1970.306	1977.186	1991.806	2011.587	2028.787	2053.728	2061.468	2056.308	2039.107	2026.207
17.5	2079.528	2086.408	2097.589	2127.689	2155.210	2187.031	2196.491	2184.451	2162.090	2122.529
20.0	2187.891	2204.231	2218.852	2255.832	2297.973	2339.254	2352.155	2323.774	2185.311	2004.707
22.5	2312.594	2328.934	2347.855	2396.876	2454.497	2506.098	2517.278	2292.813	1896.344	1627.158
25.0	2448.477	2467.397	2488.898	2558.559	2627.361	2698.743	2561.140	1991.806	1551.476	1308.090
27.5	2590.380	2606.721	2635.101	2723.683	2813.125	2874.187	2321.194	1652.098	1257.349	1065.565

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CANDELA TABULATION - (Cont.)

30.0	2744.324	2763.244	2795.065	2898.267	3015.230	2896.547	1980.626	1345.071	1040.624	959.782
32.5	2916.328	2934.388	2969.649	3082.312	3224.215	2672.082	1636.618	1110.286	993.323	967.522
35.0	3090.912	3107.252	3144.233	3271.516	3398.799	2325.494	1333.031	1042.344	1007.083	978.703
37.5	3273.236	3290.436	3329.997	3479.641	3439.220	1923.865	1134.366	1055.245	1007.943	930.542
40.0	3479.641	3494.261	3530.382	3686.906	3250.016	1563.516	1108.566	1062.125	939.142	790.358
42.5	3689.486	3702.386	3749.687	3897.611	2891.387	1277.990	1122.326	1008.803	791.218	620.934
45.0	3928.571	3938.892	3971.572	4108.315	2441.597	1173.067	1122.326	872.060	601.154	444.630
47.5	4200.338	4209.798	4240.759	4312.140	1969.446	1177.367	1055.245	686.296	414.530	291.547
50.0	4467.804	4472.964	4501.345	4404.162	1544.596	1187.688	890.121	468.711	259.726	208.125
52.5	4758.491	4757.631	4786.011	4300.960	1267.669	1156.727	678.556	290.687	192.644	171.144
55.0	5078.418	5068.958	5102.499	3993.933	1192.848	1029.444	445.490	196.085	158.244	141.043
57.5	5409.526	5394.905	5423.286	3535.542	1225.528	806.699	257.146	154.804	128.143	113.523
60.0	5798.255	5783.634	5805.995	2982.549	1292.610	522.892	167.704	123.843	102.342	98.902
62.5	6345.227	6318.567	6307.387	2379.675	1345.931	292.407	127.283	97.182	99.762	147.063
65.0	7129.566	7099.465	7084.845	2002.987	1250.469	207.265	100.622	98.042	153.944	195.225
67.5	7365.211	7365.211	7309.310	1721.760	953.762	215.865	98.902	141.043	171.144	227.905
70.0	5550.569	5522.188	5435.326	1292.610	571.053	229.625	146.203	134.163	159.104	218.445
72.5	3110.692	3063.391	2826.026	612.334	245.106	183.184	132.443	121.263	156.524	173.724
75.0	1036.324	1001.063	828.199	202.965	87.722	110.943	98.902	122.983	89.442	52.461
77.5	401.629	370.669	287.247	86.002	38.701	43.861	78.262	49.021	21.500	13.760
80.0	252.846	221.885	150.503	45.581	16.340	24.081	24.941	11.180	6.880	3.440
82.5	157.384	127.283	80.842	18.920	6.880	6.020	6.020	3.440	0.860	0.000
85.0	98.042	69.662	35.261	3.440	2.580	2.580	1.720	0.000	0.000	0.000
87.5	55.041	24.081	3.440	0.860	0.860	0.860	0.000	0.000	0.000	0.000
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles
Angles

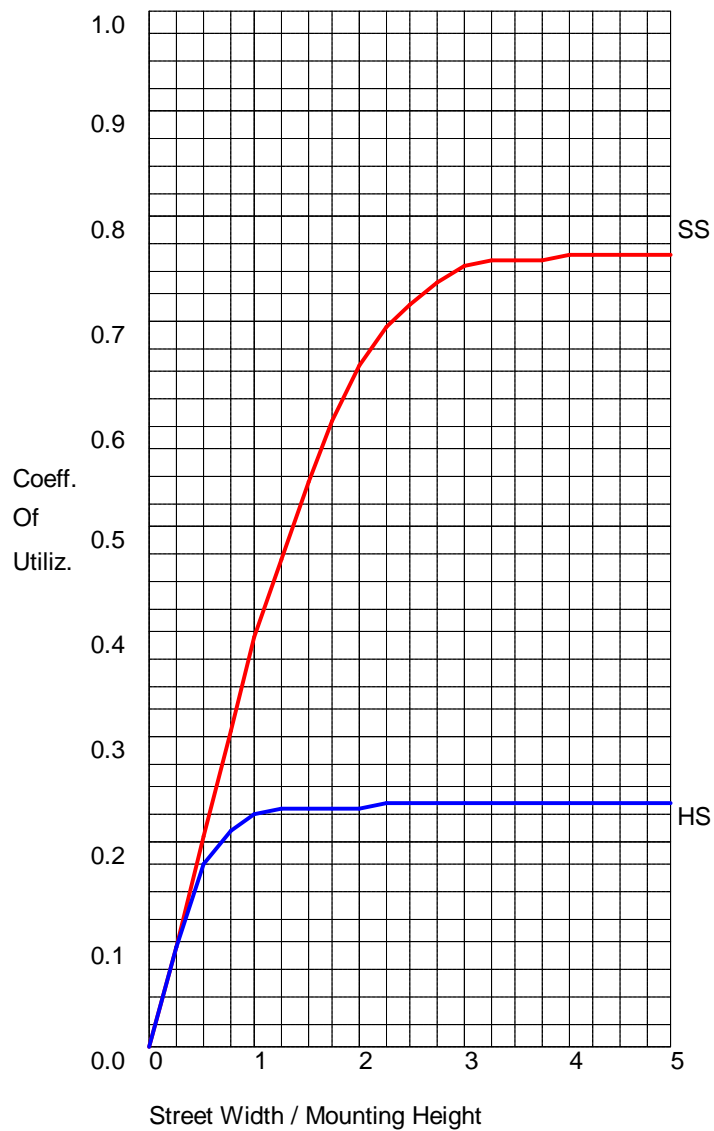
	175.0	180.0
0.0	1684.779	1684.779
2.5	1686.499	1689.079
5.0	1722.620	1725.200
7.5	1774.221	1775.941
10.0	1838.723	1840.443
12.5	1918.705	1917.845
15.0	2010.727	2009.007
17.5	2087.268	2080.388
20.0	1885.164	1867.963
22.5	1518.795	1503.315
25.0	1215.208	1201.448
27.5	989.883	987.303
30.0	935.702	931.402
32.5	951.182	948.602
35.0	951.182	941.722
37.5	866.900	854.000
40.0	714.677	700.916
42.5	544.393	532.352
45.0	378.409	368.949
47.5	253.706	249.406
50.0	196.085	195.225
52.5	164.264	162.544
55.0	133.303	134.163
57.5	106.642	105.782
60.0	107.502	108.363
62.5	159.964	157.384
65.0	184.904	170.284

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CANDELA TABULATION - (Cont.)

67.5	180.604	163.404
70.0	152.224	147.063
72.5	130.723	126.423
75.0	25.801	25.801
77.5	5.160	1.720
80.0	0.000	0.000
82.5	0.000	0.000
85.0	0.000	0.000
87.5	0.000	0.000
90.0	0.000	0.000

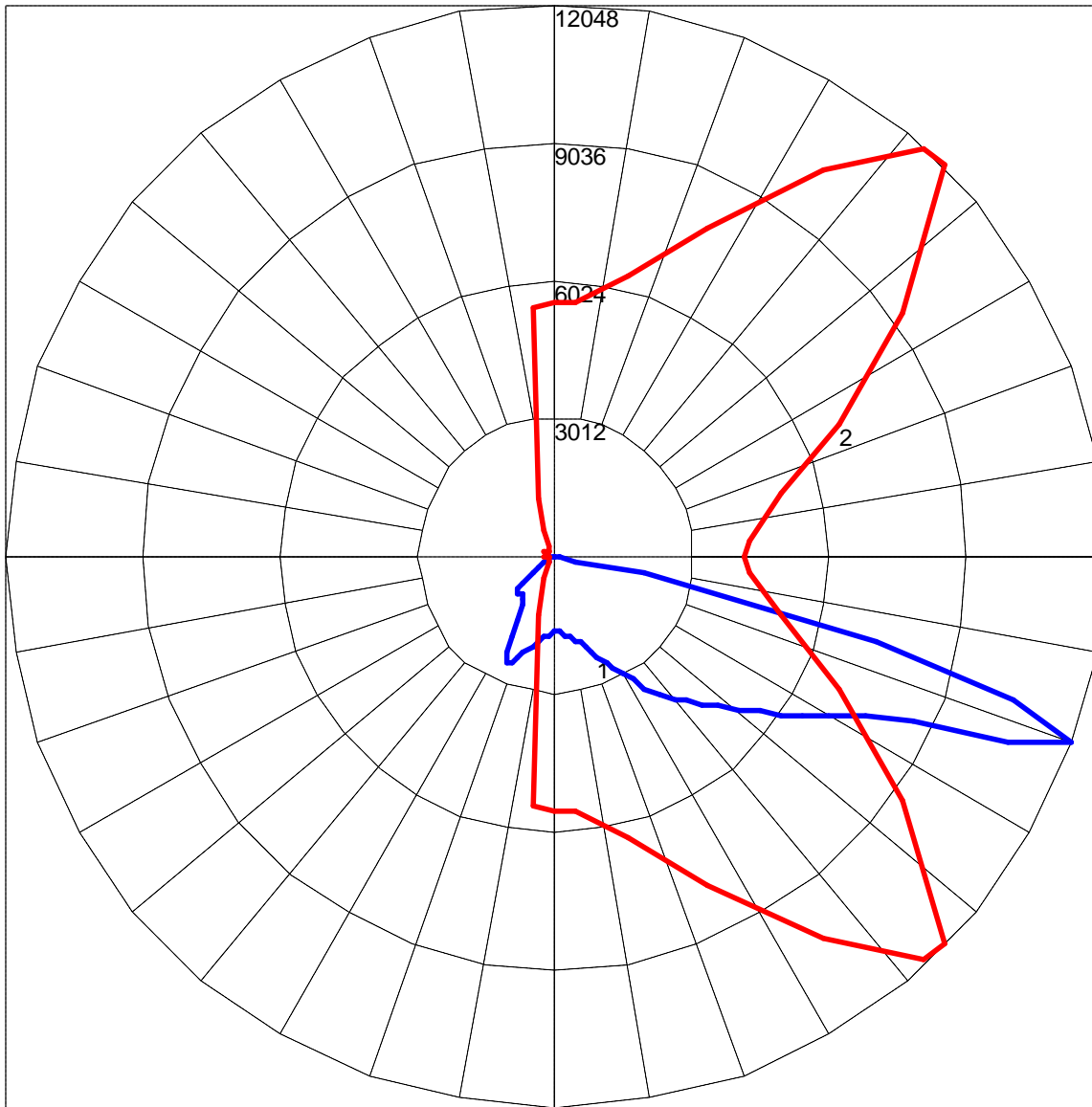
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

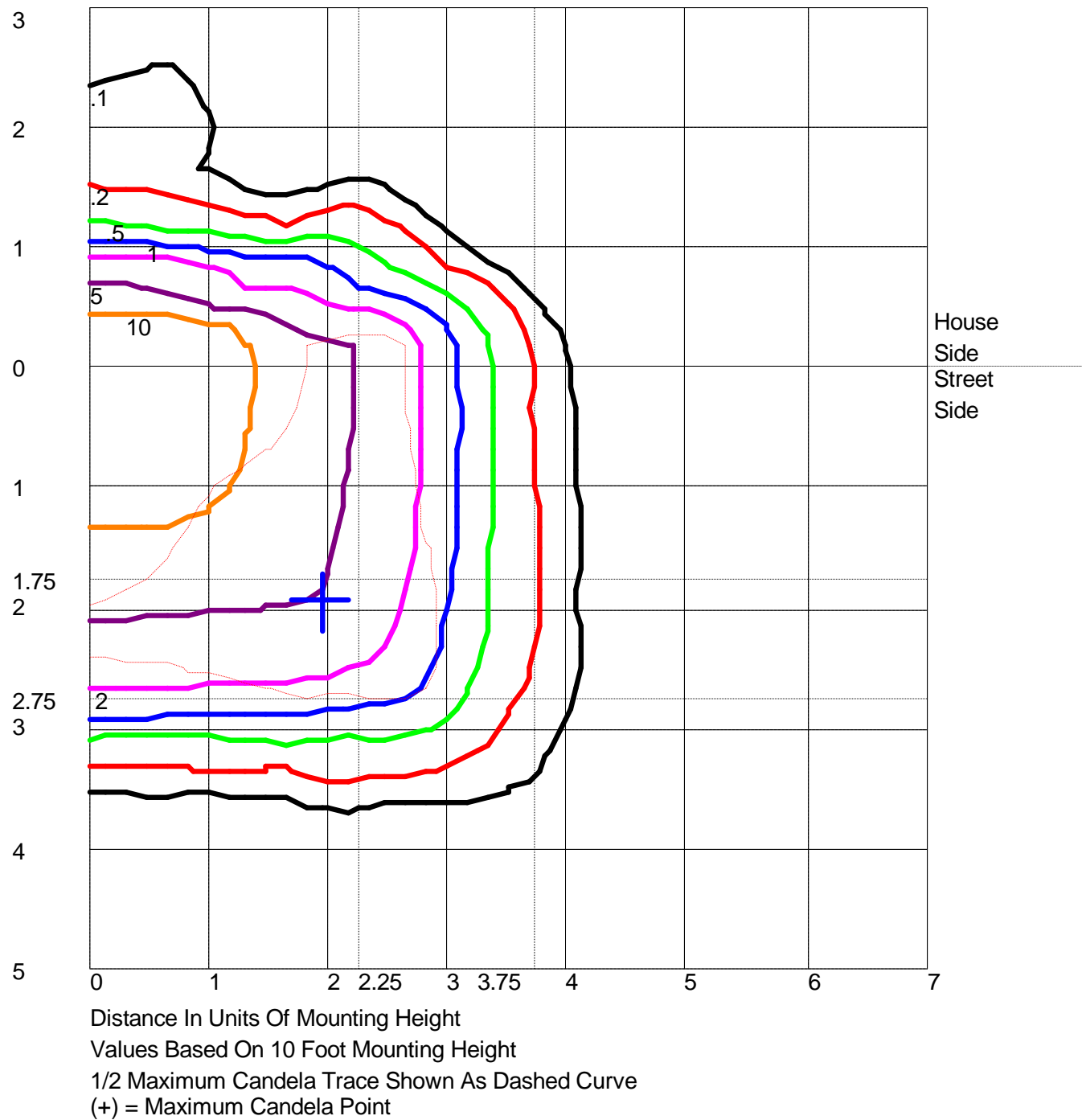
	Lumens	Percent Of Luminaire
Downward Street Side	11332.5	76.4
Downward House Side	3492.8	23.6
Downward Total	14825.3	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	14825.3	100.0

POLAR GRAPH

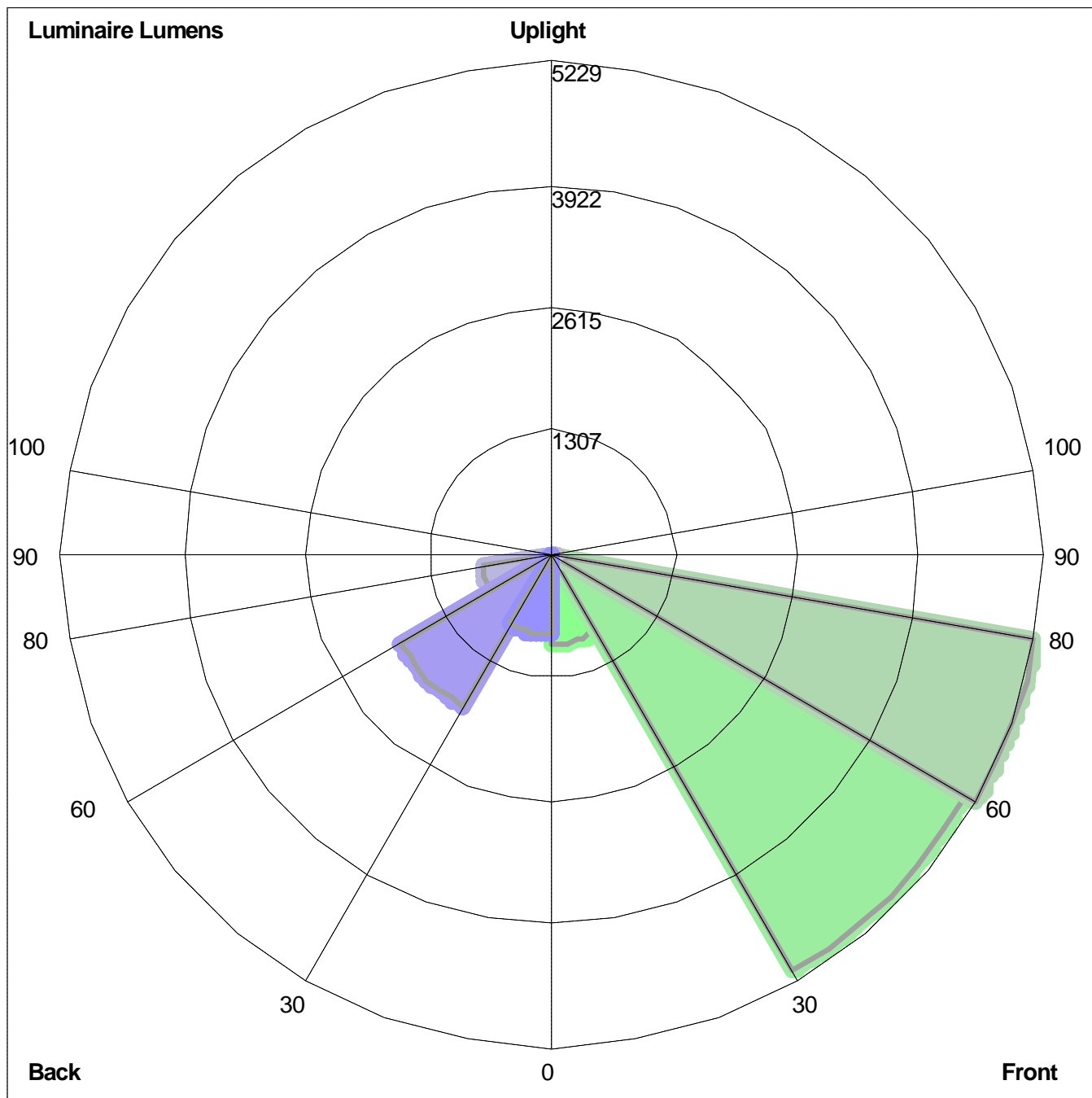


Maximum Candela = 12048.02 Located At Horizontal Angle = 45, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=946.5, Medium= 5105.0, High=5229.1, Very High=51.8
Back: Low=860.0, Medium=1870.7, High=756.8, Very High=5.3
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G3