



## IES ROAD REPORT

PHOTOMETRIC FILENAME : XMR-3-LED-35-30-IL.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST]LED-7770  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]11/21/16  
[TEST DATE]05/02/16  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMCAT]XMR-3-LED-35-30-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	Medium
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	25003
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	80
Total Luminaire Watts	313.6
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	26212.246
Maximum Candela Angle	55H 70V
Maximum Candela (<90 Degrees Vertical)	26212.246
Maximum Candela Angle (<90 Degrees Vertical)	55H 70V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	2624.751 (10.5% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1260.4	N.A.	5.0
FM - Front-Medium (30-60)	10821.6	N.A.	43.3
FH - Front-High (60-80)	10230.3	N.A.	40.9
FVH - Front-Very High (80-90)	281.9	N.A.	1.1
BL - Back-Low (0-30)	690.3	N.A.	2.8
BM - Back-Medium (30-60)	1352.7	N.A.	5.4
BH - Back-High (60-80)	356.7	N.A.	1.4
BVH - Back-Very High (80-90)	8.9	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	25002.8	N.A.	100.0
BUG Rating	B2-U0-G4		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<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>55.0</u>	<u>57.5</u>	<u>65.0</u>	<u>75.0</u>
0.0	2494.889	2494.889	2494.889	2494.889	2494.889	2494.889	2494.889	2494.889	2494.889	2494.889
2.5	2626.471	2608.410	2608.410	2604.970	2591.210	2594.650	2586.050	2574.010	2569.710	2543.910
5.0	2545.630	2530.150	2536.170	2549.930	2568.850	2600.670	2624.751	2624.751	2631.631	2616.151
7.5	2412.328	2399.428	2412.328	2438.128	2471.669	2531.010	2586.910	2598.090	2633.351	2652.271
10.0	2291.067	2281.607	2299.667	2338.367	2386.528	2456.189	2525.849	2541.330	2594.650	2653.131
12.5	2207.646	2198.186	2222.266	2266.986	2321.167	2389.108	2481.129	2500.049	2565.410	2652.271
15.0	2178.405	2173.245	2200.766	2248.926	2307.407	2376.208	2475.969	2500.909	2574.010	2679.791
17.5	2204.206	2202.486	2236.886	2297.087	2374.488	2452.749	2555.950	2592.930	2686.671	2786.432
20.0	2318.587	2309.987	2359.868	2427.808	2535.310	2652.271	2774.392	2825.993	2923.174	2991.115
22.5	2549.930	2539.610	2592.070	2698.711	2820.833	2979.935	3153.657	3176.017	3237.938	3230.198
25.0	2926.614	2911.994	2972.195	3096.036	3234.498	3428.000	3593.982	3604.302	3603.442	3503.681
27.5	3445.200	3428.860	3502.821	3635.262	3784.044	3991.307	4125.468	4101.388	4026.567	3805.544
30.0	4037.747	4027.427	4128.048	4307.790	4460.872	4648.354	4724.895	4673.294	4496.992	4146.968
32.5	4699.095	4676.735	4836.696	5007.838	5221.981	5393.983	5395.703	5314.002	5023.319	4531.393
35.0	5369.043	5357.002	5537.605	5754.327	6033.830	6250.553	6142.192	6031.250	5640.806	4942.478
37.5	6012.330	6002.870	6247.973	6542.956	6890.400	7126.903	6961.781	6815.579	6283.233	5364.743
40.0	6644.437	6678.838	6971.241	7373.726	7791.691	8076.354	7846.731	7654.949	6952.321	5806.788
42.5	7356.526	7445.107	7776.211	8298.237	8885.624	9097.186	8761.782	8520.979	7614.529	6229.053
45.0	8291.357	8420.358	8816.823	9432.590	10068.997	10232.399	9689.733	9481.611	8277.597	6613.477
47.5	9575.352	9612.332	10099.098	10798.286	11413.193	11357.292	10597.904	10315.820	8898.524	7026.282
50.0	10759.585	10804.306	11390.833	12385.864	13051.512	12740.189	11446.733	11097.569	9529.771	7509.608
52.5	11914.579	11953.279	12464.125	13619.119	14527.289	13903.782	12562.166	11824.278	10195.419	8115.915
55.0	13770.481	13790.261	14390.548	15242.818	15997.907	15222.177	13374.016	12777.169	10898.047	8883.904
57.5	15784.624	15869.765	16408.991	17264.701	17568.285	16362.551	14138.565	13542.578	11957.579	9986.035
60.0	17150.320	17275.021	17915.729	18938.281	19750.990	17693.846	15021.795	14434.408	12951.751	11465.654
62.5	16040.047	15881.805	17293.942	19413.866	21310.188	20045.974	16639.474	15894.705	14452.469	13435.937
65.0	8930.344	8432.398	11620.455	16240.429	21317.929	22254.479	19459.447	18760.259	16524.233	14949.554
67.5	2765.792	2841.473	4152.988	8872.723	16950.798	23287.352	23436.133	22966.568	19057.822	15346.879
70.0	1806.881	1843.001	2223.126	3543.241	8732.542	20175.835	26212.246	25789.121	20516.399	13645.779
72.5	1191.974	1233.254	1534.258	2441.568	4065.267	12157.962	24153.382	224714.108	18475.595	7967.133
75.0	807.549	841.090	1068.992	1795.701	2883.614	5586.625	15985.866	16802.016	10778.506	3049.596
77.5	571.907	602.007	773.149	1450.837	2253.226	3302.439	7092.503	7483.807	3471.860	1318.395
80.0	347.444	366.364	521.166	1133.493	1785.381	2160.345	2624.751	2585.190	1747.540	772.289
82.5	225.323	233.063	361.204	879.790	1197.994	1375.156	1244.435	1146.393	943.431	442.905
85.0	151.362	159.102	266.603	712.948	914.191	650.168	491.926	491.066	441.185	260.583
87.5	93.741	104.061	194.362	544.386	423.125	196.082	156.522	148.782	159.102	139.322
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<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	2494.889	2494.889	2494.889	2494.889	2494.889	2494.889	2494.889	2494.889	2494.889	2494.889
2.5	2525.849	2528.429	2513.809	2485.429	2451.889	2426.088	2397.708	2373.628	2348.687	2328.907
5.0	2572.290	2558.530	2521.549	2430.388	2324.607	2230.866	2134.545	2053.704	1990.923	1946.203
7.5	2610.130	2576.590	2512.949	2337.507	2150.885	1980.603	1863.642	1777.641	1720.880	1684.760
10.0	2637.651	2585.190	2488.869	2223.986	1963.403	1793.121	1700.240	1641.759	1588.439	1543.718
12.5	2668.611	2604.110	2472.529	2111.325	1835.261	1711.420	1614.239	1514.478	1437.077	1373.436
15.0	2716.772	2639.371	2463.069	2011.563	1773.341	1660.679	1513.618	1394.936	1325.275	1275.395
17.5	2824.273	2721.932	2500.049	1959.103	1762.161	1604.779	1437.937	1333.016	1256.475	1217.774
20.0	2983.375	2842.333	2549.070	1947.923	1763.881	1574.678	1413.856	1308.075	1227.234	1185.954
22.5	3151.077	2980.795	2604.970	1957.383	1756.140	1562.638	1431.057	1302.055	1206.594	1144.673
25.0	3311.899	3079.696	2636.791	1967.703	1750.980	1574.678	1454.277	1302.055	1185.954	1094.793
27.5	3486.481	3163.977	2663.451	1964.263	1739.800	1598.759	1465.457	1297.755	1103.393	937.411

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**CANDELA TABULATION - (Cont.)**

30.0	3659.343	3249.978	2695.271	1948.783	1736.360	1615.099	1462.017	1213.474	945.151	796.369
32.5	3853.705	3349.739	2739.132	1925.562	1726.900	1606.499	1414.716	1062.972	860.870	826.470
35.0	4063.547	3457.240	2778.692	1892.882	1701.960	1573.818	1275.395	976.971	927.951	1031.152
37.5	4275.110	3573.342	2817.393	1849.022	1655.519	1493.837	1136.073	969.231	1111.993	1328.715
40.0	4495.272	3693.743	2862.113	1798.281	1595.319	1323.555	1069.852	968.371	1278.835	1222.934
42.5	4718.015	3814.144	2912.854	1740.660	1509.318	1167.034	983.851	974.391	1161.014	836.790
45.0	4955.378	3949.166	2988.535	1690.780	1379.456	1037.172	872.050	845.390	1007.932	590.827
47.5	5243.481	4149.548	3094.316	1641.759	1144.673	845.390	721.548	694.028	870.330	502.246
50.0	5593.505	4413.571	3245.678	1576.398	888.390	625.227	546.966	567.607	755.089	460.965
52.5	6038.130	4746.395	3471.000	1468.897	632.107	459.245	405.065	451.505	651.888	436.885
55.0	6456.095	5049.979	3705.783	1336.456	471.285	374.104	323.364	364.644	478.166	440.325
57.5	6797.519	5407.743	3922.506	1255.615	423.985	331.104	276.063	292.403	353.464	404.205
60.0	7620.549	6019.210	3866.605	1121.453	402.485	298.423	224.463	249.403	220.163	307.884
62.5	9341.429	6719.258	3460.680	878.930	370.664	251.983	208.122	161.682	141.042	262.303
65.0	11036.509	6758.819	2616.151	640.707	294.983	208.122	179.742	110.941	105.781	227.903
67.5	10740.665	5323.462	1607.359	422.265	213.282	174.582	117.821	79.981	103.201	195.222
70.0	7466.607	2789.013	855.710	267.463	150.502	106.641	67.941	71.381	69.661	151.362
72.5	3321.359	1235.834	423.125	192.642	116.961	67.941	55.041	51.601	49.021	110.941
75.0	1169.614	551.266	268.323	142.762	79.121	50.741	38.700	41.280	33.540	83.421
77.5	656.188	317.344	198.662	103.201	46.441	36.120	25.800	30.960	12.040	44.721
80.0	387.005	212.422	143.622	71.381	33.540	22.360	12.900	10.320	6.880	19.780
82.5	247.683	141.902	98.901	43.861	18.920	12.900	10.320	5.160	1.720	0.000
85.0	145.342	80.841	61.921	24.080	11.180	9.460	6.880	3.440	0.860	0.000
87.5	73.101	35.260	30.960	11.180	10.320	11.180	8.600	4.300	0.860	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**

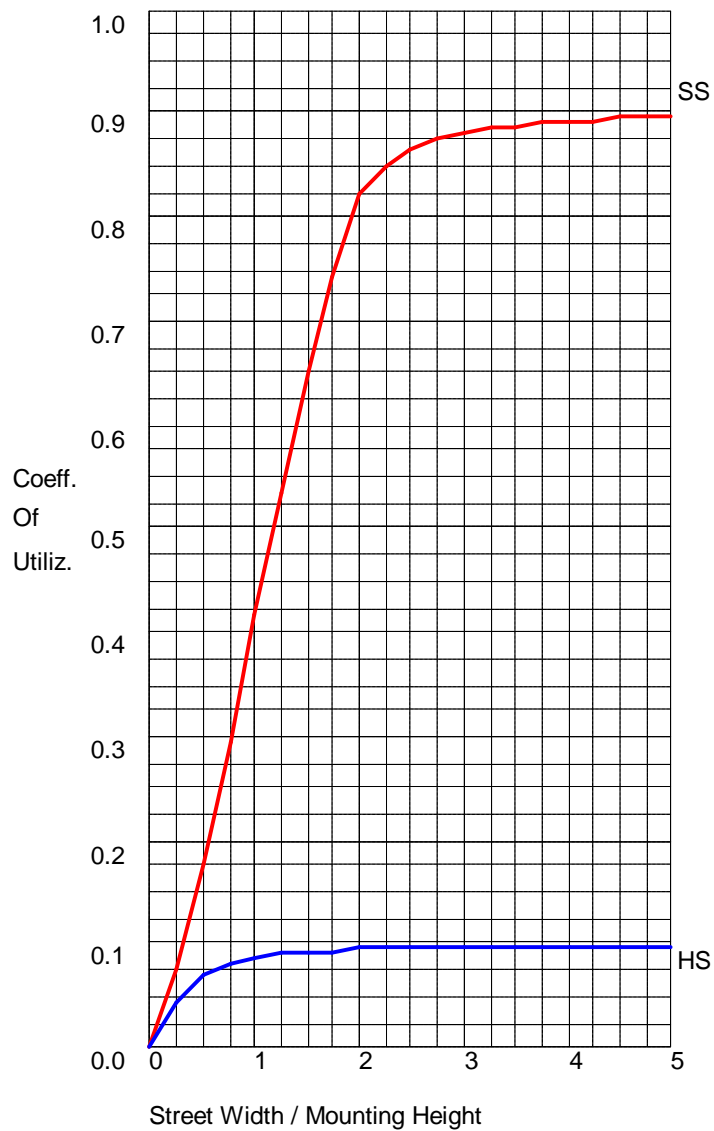
	<b>175.0</b>	<b>180.0</b>
0.0	2494.889	2494.889
2.5	2312.567	2294.507
5.0	1918.682	1898.042
7.5	1658.959	1654.659
10.0	1512.758	1506.738
12.5	1350.216	1343.336
15.0	1257.335	1250.455
17.5	1204.014	1197.134
20.0	1167.894	1160.154
22.5	1122.313	1115.433
25.0	1048.352	1037.172
27.5	875.490	864.310
30.0	747.349	739.609
32.5	816.150	802.389
35.0	1038.032	1002.772
37.5	1168.754	1084.473
40.0	773.149	699.188
42.5	505.686	473.866
45.0	415.385	393.025
47.5	370.664	350.024
50.0	339.704	318.204
52.5	313.904	291.543
55.0	348.304	324.224
57.5	298.423	270.043
60.0	246.823	213.282
62.5	238.223	206.402
65.0	252.843	222.743

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**CANDELA TABULATION - (Cont.)**

<b>67.5</b>	229.623	200.382
<b>70.0</b>	190.922	170.282
<b>72.5</b>	149.642	136.742
<b>75.0</b>	110.941	100.621
<b>77.5</b>	54.181	52.461
<b>80.0</b>	22.360	21.500
<b>82.5</b>	2.580	3.440
<b>85.0</b>	0.000	0.000
<b>87.5</b>	0.000	0.000
<b>90.0</b>	0.000	0.000

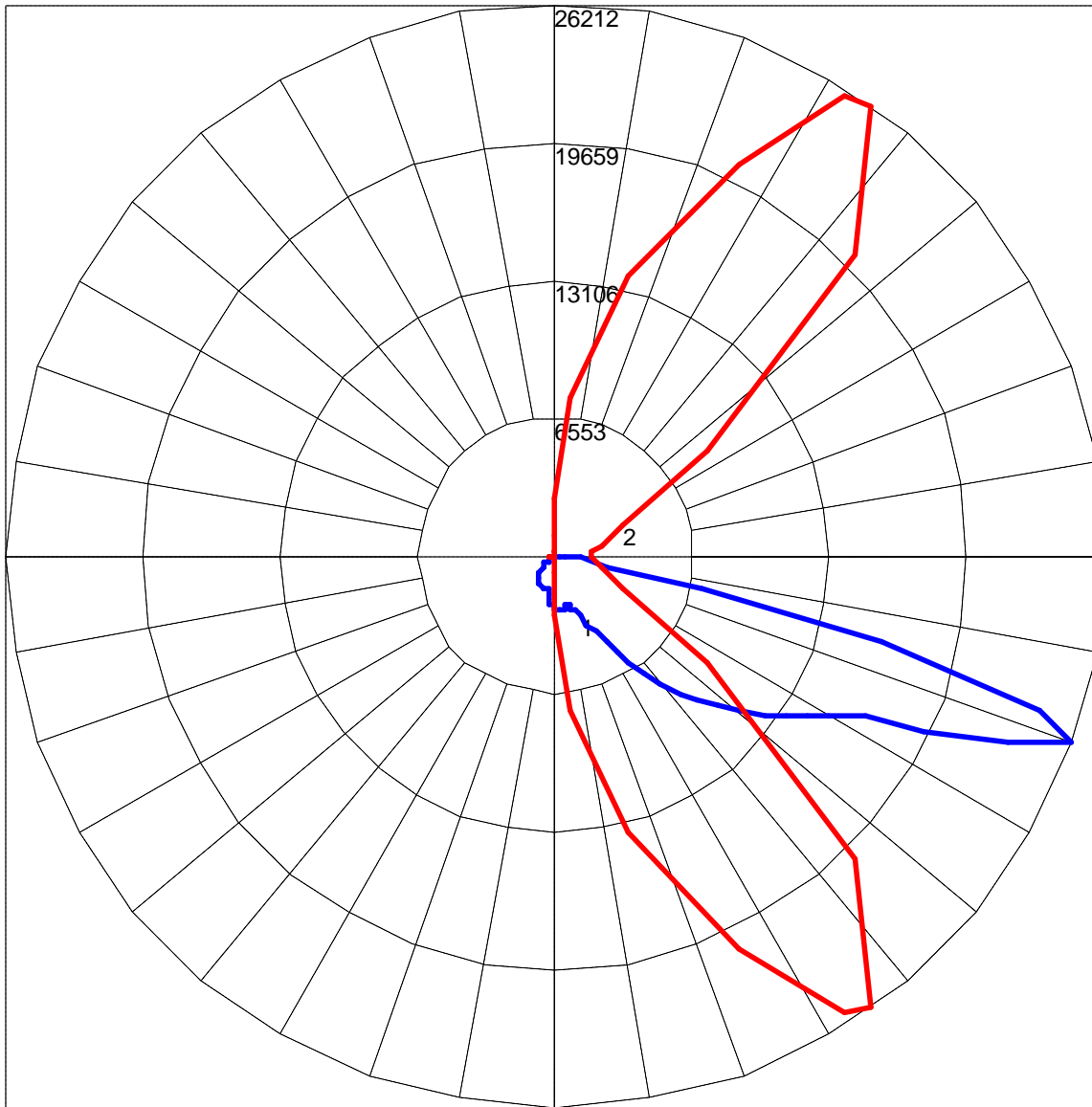
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

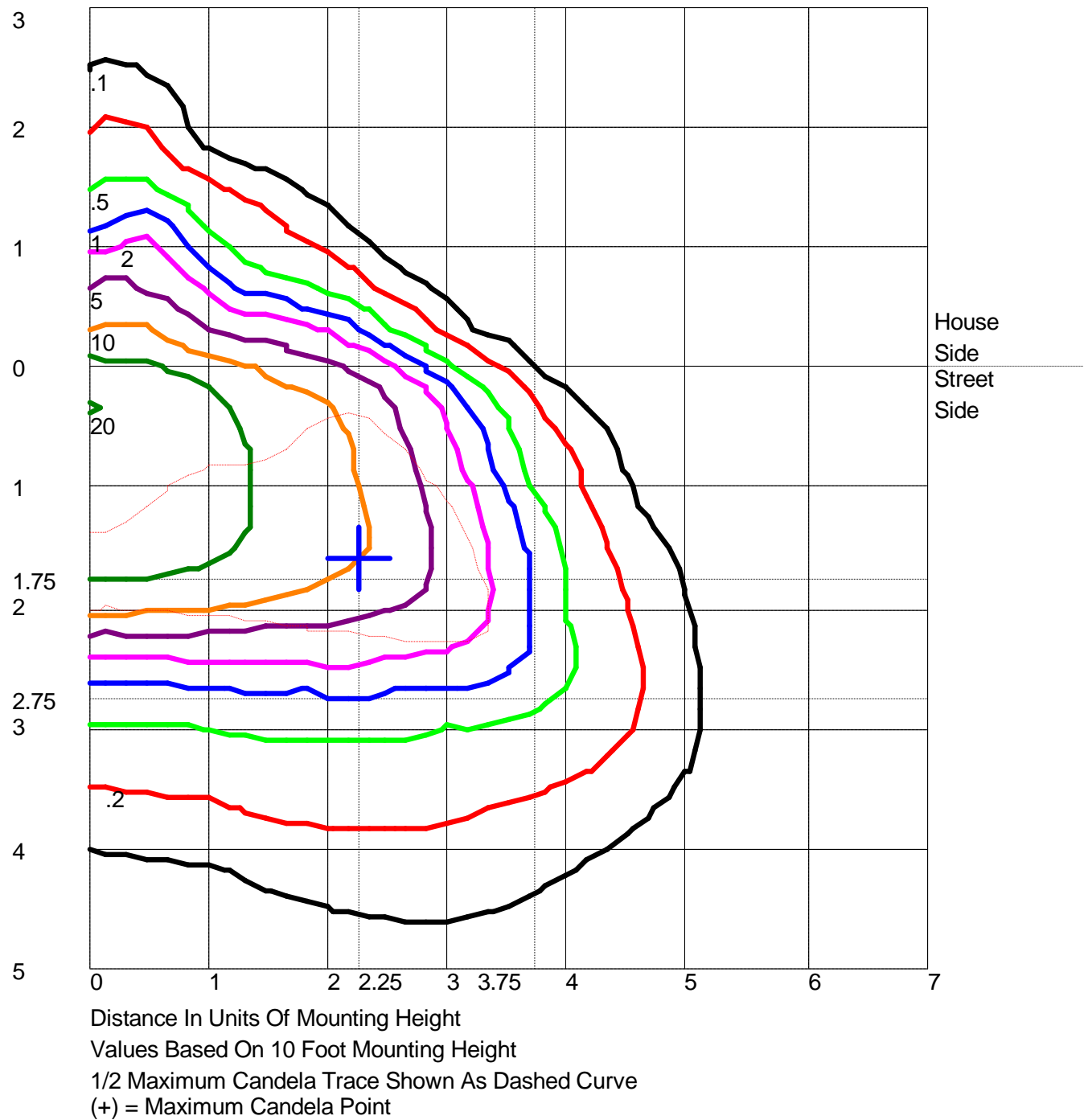
	Lumens	Percent Of Luminaire
Downward Street Side	22594.2	90.4
Downward House Side	2408.5	9.6
Downward Total	25002.7	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	25002.7	100.0

POLAR GRAPH



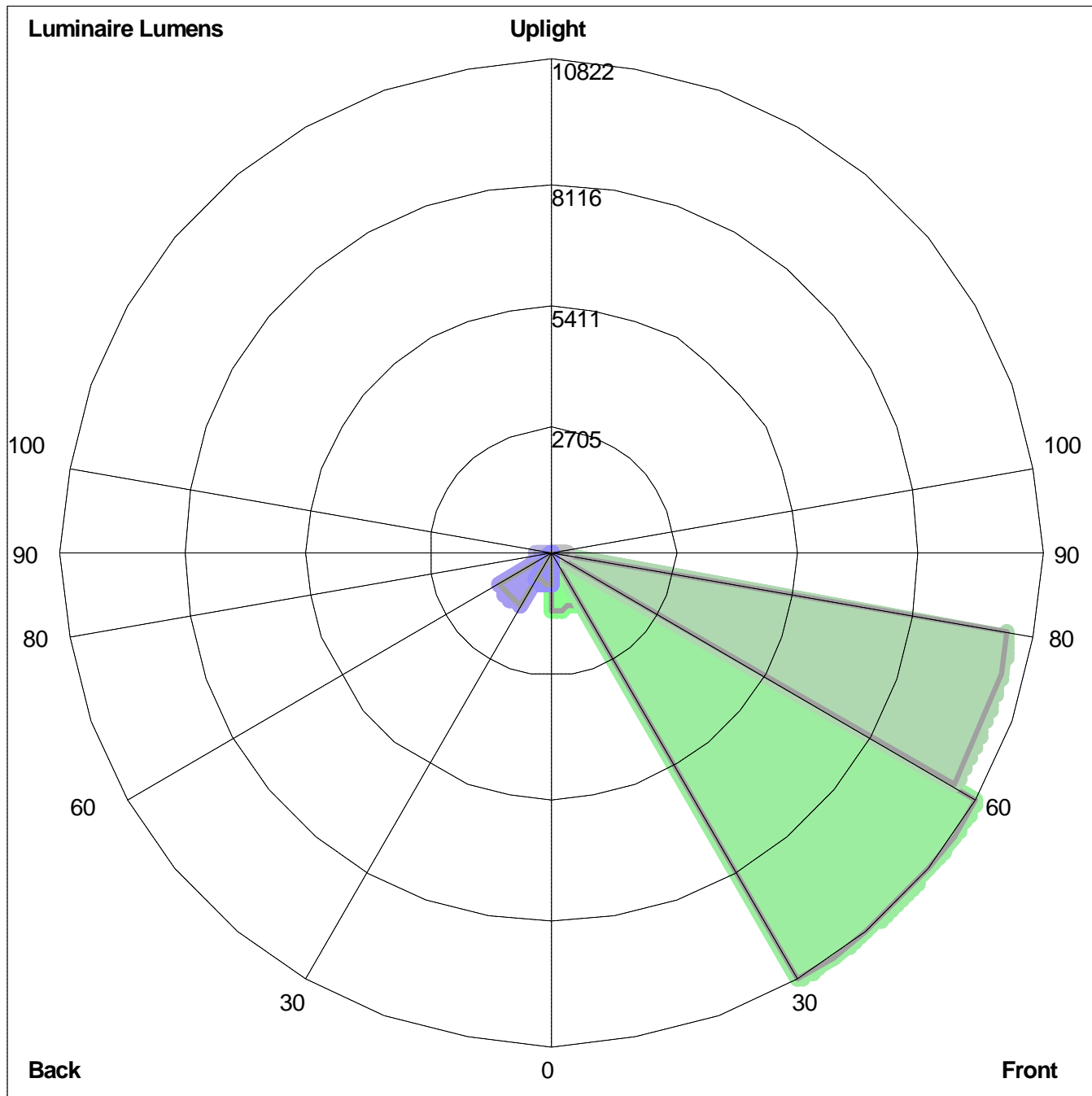
Maximum Candela = 26212.246 Located At Horizontal Angle = 55, Vertical Angle = 70  
# 1 - Vertical Plane Through Horizontal Angles (55 - 235) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=1260.4, Medium=10821.6, High=10230.3, Very High=281.9  
Back: Low=690.3, Medium=1352.7, High=356.7, Very High=8.9  
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G4