



## IES ROAD REPORT

PHOTOMETRIC FILENAME : XMR-2-LED-29-30-IL.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST]LED-8625\_Scaled  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]03/01/17  
[TEST DATE]03/01/17  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMCAT]XMR-2-LED-29-30-IL  
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER]TEST PROCEDURE: IESNA LM-79-08  
[OTHER]SCALED FROM ORIGINAL TEST DATA  
[SEARCH\_SOURCETYPE] LED  
[SEARCH\_APPLICATION] Outdoor

### CHARACTERISTICS

IES Classification	Type II
Longitudinal Classification	Medium
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	18173
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	76
Total Luminaire Watts	239.2
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	18773.421
Maximum Candela Angle	80H 67.5V
Maximum Candela (<90 Degrees Vertical)	18773.421
Maximum Candela Angle (<90 Degrees Vertical)	80H 67.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1486.046 (8.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1724.9	N.A.	9.5
FM - Front-Medium (30-60)	8211.1	N.A.	45.2
FH - Front-High (60-80)	5403.2	N.A.	29.7
FVH - Front-Very High (80-90)	78.5	N.A.	0.4
BL - Back-Low (0-30)	868.8	N.A.	4.8
BM - Back-Medium (30-60)	1338.9	N.A.	7.4
BH - Back-High (60-80)	542.8	N.A.	3.0
BVH - Back-Very High (80-90)	4.5	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	18172.7	N.A.	100.0
BUG Rating	B2-U0-G3		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u>0</u>	<u>5</u>	<u>15</u>	<u>25</u>	<u>35</u>	<u>45</u>	<u>55</u>	<u>65</u>	<u>75</u>	<u>80</u>
0.0	3393.713	3393.713	3393.713	3393.713	3393.713	3393.713	3393.713	3393.713	3393.713	3393.713
2.5	3425.681	3421.361	3422.225	3424.817	3428.273	3423.953	3424.817	3416.177	3409.265	3403.217
5.0	3483.567	3480.111	3482.703	3486.159	3492.207	3487.887	3485.295	3468.880	3456.784	3446.416
7.5	3545.774	3542.318	3547.502	3557.870	3562.190	3555.278	3550.094	3529.358	3512.943	3496.527
10.0	3618.348	3616.620	3623.532	3637.356	3644.268	3633.036	3624.396	3602.797	3582.925	3564.781
12.5	3707.338	3704.746	3716.842	3732.394	3739.305	3728.938	3734.122	3712.522	3695.242	3671.051
15.0	3774.729	3773.865	3798.056	3832.615	3855.079	3861.991	3880.998	3860.263	3838.663	3808.424
17.5	3804.968	3808.424	3839.527	3894.822	3958.756	4020.963	4058.978	4047.746	4012.323	3978.628
20.0	3836.935	3841.255	3874.950	3949.253	4045.154	4163.520	4258.557	4253.374	4209.311	4167.839
22.5	3874.950	3877.542	3915.557	4025.283	4137.600	4270.653	4454.681	4494.424	4422.714	4376.923
25.0	3881.862	3881.862	3944.069	4079.714	4228.318	4370.011	4611.061	4753.618	4676.724	4626.613
27.5	3889.638	3896.550	3970.852	4126.368	4306.076	4464.185	4732.882	5033.547	4961.837	4910.862
30.0	3959.620	3968.260	4043.426	4199.807	4395.930	4573.046	4861.615	5308.293	5308.293	5241.767
32.5	4104.769	4110.817	4181.663	4321.628	4514.295	4714.739	5014.540	5548.480	5668.573	5594.270
35.0	4331.996	4331.132	4390.746	4508.248	4674.132	4901.359	5201.160	5760.155	6048.724	5975.286
37.5	4637.845	4631.797	4668.948	4769.170	4905.678	5137.225	5429.250	5961.462	6454.795	6391.724
40.0	4997.260	4986.029	5011.084	5080.202	5195.112	5434.434	5696.220	6190.417	6839.266	6849.633
42.5	5437.890	5416.291	5418.019	5463.809	5548.480	5815.449	6021.941	6433.195	7195.225	7273.848
45.0	6027.124	6033.172	5972.694	5972.694	5970.102	6276.815	6402.092	6664.742	7502.802	7716.205
47.5	6869.505	6876.417	6884.193	6777.059	6637.094	6871.233	6920.480	6962.815	7843.210	8253.601
50.0	7612.528	7635.855	7647.087	7687.694	7717.069	7831.979	7633.263	7397.397	8258.785	8853.203
52.5	7705.838	7719.661	7812.107	8104.132	8644.984	9314.568	8737.430	7987.495	8774.581	9565.123
55.0	7336.054	7374.069	7554.641	7969.351	8911.090	10438.606	10720.264	8876.530	9364.679	10426.511
57.5	6641.414	6698.437	6967.999	7431.092	8612.153	10651.145	12610.652	10200.148	10118.934	11358.745
60.0	5419.747	5496.641	5802.490	6308.782	7623.759	10012.664	13984.380	12309.987	11126.334	12662.491
62.5	3070.585	3160.439	3518.127	4317.308	5625.374	8183.619	14745.547	15239.743	12160.518	14522.640
65.0	1052.328	1089.479	1185.381	1695.993	3004.058	5174.376	14526.096	16986.711	13640.516	16695.549
67.5	562.451	559.859	565.907	675.632	1156.869	2362.985	11663.730	17206.162	15553.368	18773.421
70.0	360.280	352.504	362.872	420.758	585.778	955.562	5641.789	15138.657	16250.600	18281.817
72.5	181.436	186.620	196.987	254.010	382.743	573.683	2007.890	10302.961	14904.519	13316.524
75.0	94.174	95.902	95.902	133.917	238.458	410.390	936.554	4643.892	7998.727	5318.661
77.5	51.839	53.567	55.295	72.574	122.685	259.194	510.612	2171.182	3158.711	1750.423
80.0	45.791	46.655	44.927	50.975	65.662	122.685	262.650	767.214	1486.046	766.350
82.5	45.791	44.927	42.335	44.927	56.159	79.486	127.005	344.728	661.809	415.574
85.0	40.607	39.743	38.015	38.879	46.655	72.574	118.365	216.859	370.647	266.970
87.5	20.736	19.008	19.872	24.191	32.831	60.479	121.821	256.602	276.474	174.524
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</u>	<u>90</u>	<u>95</u>	<u>105</u>	<u>115</u>	<u>125</u>	<u>135</u>	<u>145</u>	<u>155</u>	<u>165</u>
0.0	3393.713	3393.713	3393.713	3393.713	3393.713	3393.713	3393.713	3393.713	3393.713	3393.713
2.5	3398.033	3386.802	3399.761	3401.489	3404.081	3397.169	3386.802	3387.666	3384.210	3382.482
5.0	3439.504	3423.953	3433.457	3426.545	3418.769	3395.441	3366.930	3345.331	3320.275	3300.404
7.5	3480.975	3461.968	3467.152	3448.144	3417.905	3362.610	3296.948	3233.877	3168.215	3107.736
10.0	3544.910	3518.127	3517.263	3479.247	3409.265	3296.948	3163.031	3046.393	2920.252	2788.927
12.5	3649.451	3616.620	3613.164	3542.318	3416.177	3209.686	2950.492	2669.698	2373.353	2108.111
15.0	3777.321	3734.986	3722.026	3613.164	3413.585	3074.905	2538.373	2017.393	1575.900	1264.003
17.5	3936.293	3878.406	3855.079	3690.923	3389.394	2765.600	1912.852	1261.411	844.108	666.993
20.0	4112.545	4051.202	4006.275	3774.729	3313.363	2267.084	1283.010	734.383	480.373	412.118
22.5	4311.260	4247.326	4176.479	3864.583	3113.784	1695.129	806.093	450.998	377.559	350.776
25.0	4554.039	4481.464	4389.882	3972.580	2779.424	1198.340	506.292	382.743	342.136	316.217
27.5	4833.968	4750.162	4639.573	4077.122	2358.665	793.998	412.118	350.776	310.169	282.521

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**CANDELA TABULATION - (Cont.)**

30.0	5182.152	5075.882	4941.966	4134.144	1893.844	526.164	377.559	318.809	279.066	247.962
32.5	5540.704	5431.842	5272.006	4132.416	1359.041	435.446	343.000	286.841	243.642	204.763
35.0	5919.127	5799.034	5602.910	4031.331	904.587	395.703	307.577	251.418	196.123	149.469
37.5	6335.565	6206.832	5964.054	3803.240	600.466	355.960	271.290	203.899	134.781	93.310
40.0	6782.243	6648.326	6352.845	3417.905	467.413	315.353	230.683	146.013	80.350	54.431
42.5	7261.752	7095.868	6722.628	2843.358	414.710	277.338	180.572	89.854	44.927	29.375
45.0	7740.397	7561.553	7098.460	2165.998	372.375	237.594	122.685	49.247	20.736	12.096
47.5	8294.208	8117.092	7448.372	1475.678	331.768	194.395	76.894	24.191	7.776	3.456
50.0	8972.432	8793.588	7787.916	935.690	290.297	145.149	44.927	11.232	2.592	0.864
52.5	9733.599	9506.372	8024.646	645.393	250.554	99.358	21.599	5.184	1.728	0.864
55.0	10686.569	10360.848	8166.339	563.315	216.859	63.935	12.960	3.456	2.592	1.728
57.5	11781.231	11344.921	8199.170	583.186	200.443	38.879	7.776	3.456	3.456	3.456
60.0	13066.833	12358.370	7956.392	608.242	196.123	20.736	6.048	3.456	4.320	4.320
62.5	15144.705	13585.221	7380.981	588.370	190.076	13.824	5.184	3.456	4.320	3.456
65.0	16733.565	14521.776	6178.321	500.244	161.564	19.872	4.320	3.456	2.592	1.728
67.5	17912.033	14234.070	4323.356	336.088	111.453	13.824	4.320	1.728	2.592	5.184
70.0	16040.653	11327.642	2135.759	157.244	57.887	11.232	2.592	2.592	3.456	1.728
72.5	10090.422	6065.140	791.406	69.118	29.375	9.504	1.728	1.728	0.864	0.000
75.0	3825.703	2362.121	355.096	29.375	12.096	5.184	1.728	0.000	0.000	0.000
77.5	1065.287	714.511	203.035	12.960	6.912	2.592	0.864	0.000	0.000	0.000
80.0	497.652	359.416	126.141	8.640	4.320	1.728	0.000	0.000	0.000	0.000
82.5	253.146	189.212	64.798	7.776	4.320	0.000	0.000	0.000	0.000	0.000
85.0	155.516	107.997	25.919	6.048	1.728	0.864	0.864	0.864	0.864	0.000
87.5	89.854	44.927	8.640	2.592	2.592	1.728	1.728	1.728	0.864	0.864
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**

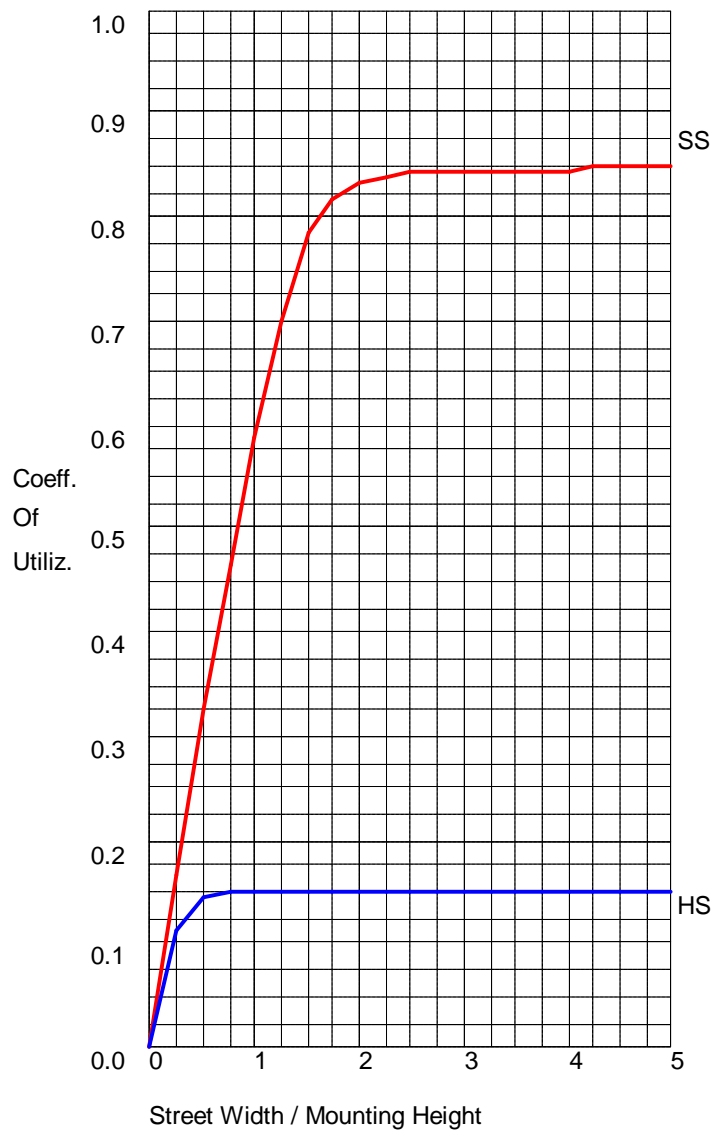
	<b>175</b>	<b>180</b>
0.0	3393.713	3393.713
2.5	3377.298	3368.658
5.0	3280.532	3271.028
7.5	3076.633	3065.401
10.0	2715.489	2698.210
12.5	1972.466	1950.003
15.0	1130.086	1111.078
17.5	580.595	571.091
20.0	389.655	385.335
22.5	339.544	338.680
25.0	304.121	302.393
27.5	269.562	266.970
30.0	230.683	229.819
32.5	184.028	182.300
35.0	127.869	122.685
37.5	77.758	73.438
40.0	44.063	43.199
42.5	23.327	23.327
45.0	8.640	7.776
47.5	0.000	0.000
50.0	0.000	0.000
52.5	0.000	0.000
55.0	0.000	0.000
57.5	1.728	0.864
60.0	2.592	1.728
62.5	0.864	0.000
65.0	0.000	0.000

**IES ROAD REPORT**  
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**CANDELA TABULATION - (Cont.)**

<b>67.5</b>	2.592	2.592
<b>70.0</b>	0.000	0.000
<b>72.5</b>	0.000	0.000
<b>75.0</b>	0.000	0.000
<b>77.5</b>	0.000	0.000
<b>80.0</b>	0.000	0.000
<b>82.5</b>	0.000	0.000
<b>85.0</b>	0.000	0.000
<b>87.5</b>	0.000	0.000
<b>90.0</b>	0.000	0.000

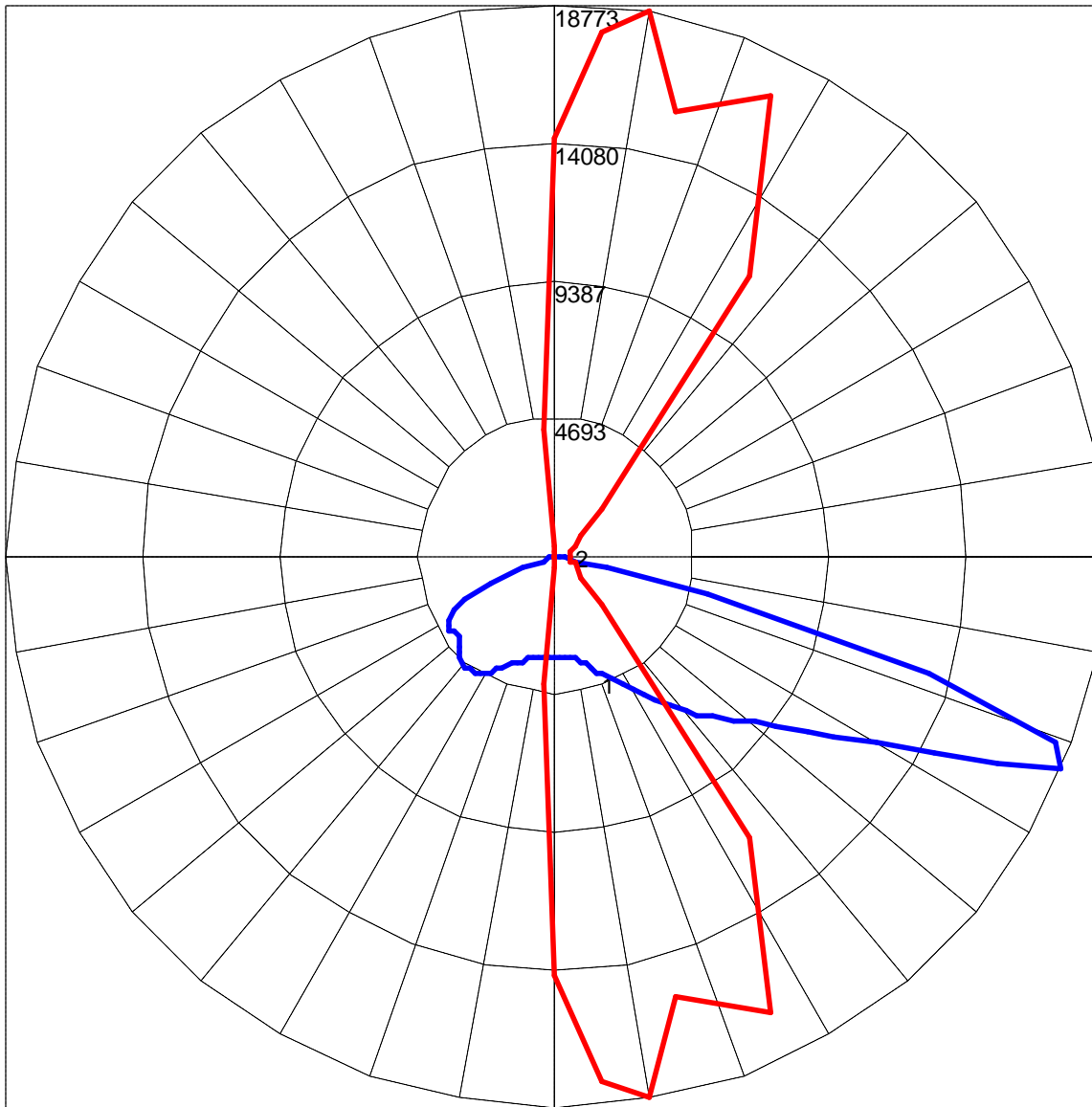
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

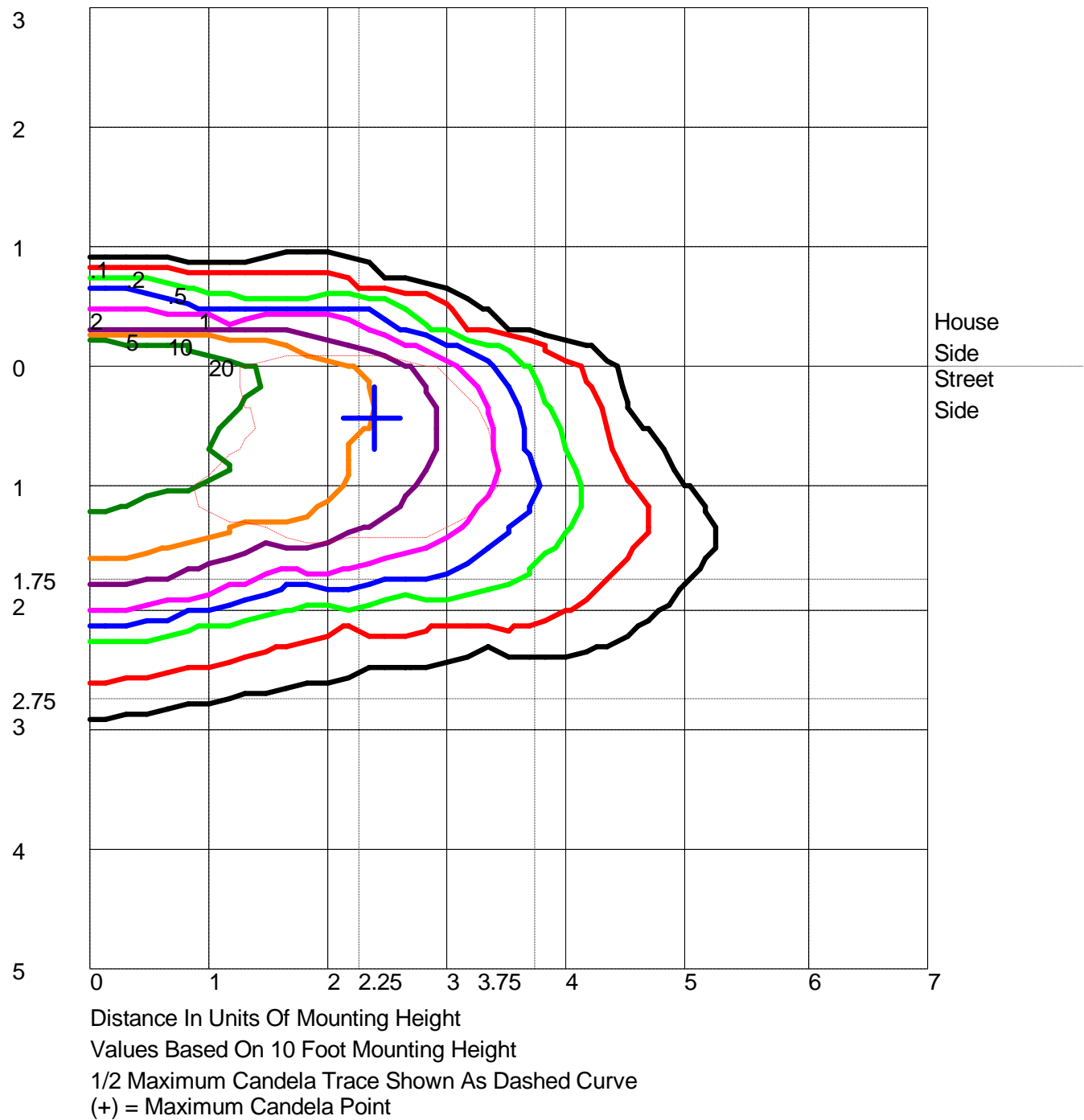
	Lumens	Percent Of Luminaire
Downward Street Side	15417.7	84.8
Downward House Side	2754.9	15.2
Downward Total	18172.6	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	18172.6	100.0

POLAR GRAPH



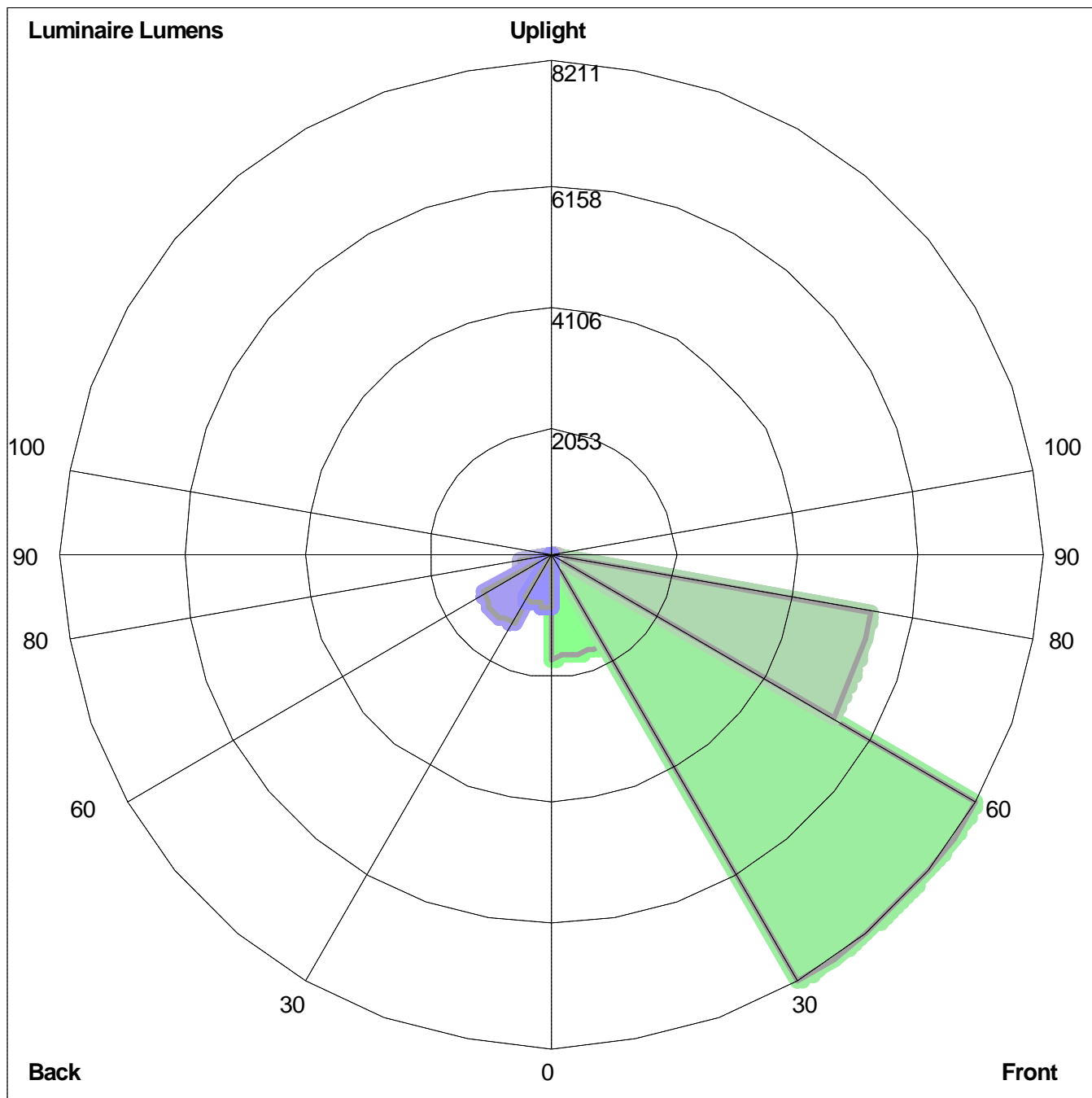
Maximum Candela = 18773.421 Located At Horizontal Angle = 80, Vertical Angle = 67.5  
# 1 - Vertical Plane Through Horizontal Angles (80 - 260) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=1724.9, Medium=8211.1, High=5403.2, Very High=78.5  
Back: Low=868.8, Medium=1338.9, High=542.8, Very High=4.5  
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G3