



IES ROAD REPORT

PHOTOMETRIC FILENAME : XMR-2-LED-18-50-IL.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-8721
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]03/22/17
[TEST DATE]03/22/17
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMCAT]XMR-2-LED-18-50-IL
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[SEARCH_SOURCE TYPE] 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	13035
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	83
Total Luminaire Watts	156.2
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	15505
Maximum Candela Angle	80H 67.5V
Maximum Candela (<90 Degrees Vertical)	15505
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	645 (4.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1245.9	N.A.	9.6
FM - Front-Medium (30-60)	6238.1	N.A.	47.9
FH - Front-High (60-80)	3917.5	N.A.	30.1
FVH - Front-Very High (80-90)	53.3	N.A.	0.4
BL - Back-Low (0-30)	537.4	N.A.	4.1
BM - Back-Medium (30-60)	778.5	N.A.	6.0
BH - Back-High (60-80)	261.3	N.A.	2.0
BVH - Back-Very High (80-90)	3.1	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	13035.1	N.A.	100.0
BUG Rating	B2-U0-G2		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<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	2251	2251	2251	2251	2251	2251	2251	2251	2251	2251
2.5	2342	2339	2343	2342	2340	2322	2309	2293	2275	2268
5.0	2482	2485	2479	2473	2464	2434	2406	2370	2334	2313
7.5	2599	2602	2599	2592	2583	2556	2514	2464	2406	2374
10.0	2687	2689	2689	2692	2691	2669	2628	2575	2495	2450
12.5	2742	2740	2749	2770	2789	2783	2758	2704	2600	2545
15.0	2749	2750	2772	2817	2867	2892	2895	2843	2737	2661
17.5	2739	2741	2777	2847	2927	2996	3035	3000	2890	2808
20.0	2720	2726	2775	2870	2976	3084	3172	3170	3062	2972
22.5	2695	2700	2763	2879	3017	3164	3295	3350	3255	3161
25.0	2680	2687	2758	2894	3054	3231	3413	3537	3474	3378
27.5	2678	2687	2768	2921	3099	3301	3531	3729	3716	3623
30.0	2705	2714	2804	2970	3166	3384	3652	3923	3985	3897
32.5	2779	2786	2881	3050	3262	3490	3775	4114	4271	4208
35.0	2914	2922	3017	3171	3388	3626	3913	4306	4573	4535
37.5	3124	3131	3215	3347	3555	3806	4075	4496	4895	4893
40.0	3420	3443	3497	3594	3778	4049	4282	4684	5247	5283
42.5	3862	3844	3884	3936	4075	4337	4519	4877	5595	5705
45.0	4405	4382	4415	4412	4482	4712	4846	5078	5954	6190
47.5	5018	5032	5059	5062	5086	5244	5303	5310	6390	6716
50.0	5509	5534	5667	5752	5880	6076	5961	5616	6869	7346
52.5	5655	5689	5934	6250	6662	7142	6948	6048	7447	8106
55.0	5280	5311	5653	6201	7006	8169	8402	6712	8180	9056
57.5	4310	4351	4701	5410	6554	8682	10200	7737	9070	10293
60.0	2613	2562	3036	3910	5220	8078	11951	9283	10280	11793
62.5	938	915	1149	1858	3158	6028	12780	11359	11681	13461
65.0	437	453	501	677	1294	2903	12061	13080	13104	14903
67.5	310	319	334	396	618	1121	8951	13257	13908	15505
70.0	205	208	224	282	443	611	4373	10803	12980	13721
72.5	118	117	115	167	329	472	1587	6706	9244	8465
75.0	60	61	60	86	190	375	655	3332	4372	2710
77.5	43	44	43	52	84	251	371	1263	1415	731
80.0	44	45	41	45	54	99	205	436	645	407
82.5	42	43	38	40	48	78	112	238	357	270
85.0	28	30	29	34	41	69	117	185	235	176
87.5	11	11	12	16	22	44	108	213	166	104
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	<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	2251	2251	2251	2251	2251	2251	2251	2251	2251	2251
2.5	2259	2247	2245	2234	2224	2209	2196	2185	2176	2171
5.0	2290	2263	2247	2210	2177	2140	2107	2083	2063	2052
7.5	2337	2295	2263	2195	2134	2077	2031	2001	1980	1969
10.0	2397	2337	2287	2183	2091	2017	1972	1944	1914	1881
12.5	2472	2392	2321	2174	2050	1961	1901	1775	1613	1473
15.0	2566	2463	2365	2166	2011	1876	1656	1330	1041	849
17.5	2682	2550	2422	2166	1955	1660	1194	799	552	453
20.0	2819	2656	2494	2170	1849	1312	745	468	386	357
22.5	2993	2783	2584	2175	1666	922	474	377	341	322
25.0	3187	2937	2691	2163	1397	607	396	346	317	298
27.5	3412	3134	2815	2123	1085	459	367	324	294	274

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CANDELA TABULATION - (Cont.)

30.0	3670	3344	2960	2049	794	410	345	303	271	251
32.5	3951	3577	3117	1911	585	384	322	277	244	219
35.0	4279	3834	3293	1708	475	361	296	251	209	172
37.5	4629	4119	3470	1460	425	334	266	215	157	118
40.0	5013	4432	3655	1169	393	304	235	165	103	72
42.5	5435	4776	3837	899	362	274	195	111	61	41
45.0	5905	5154	4004	660	332	240	144	67	33	20
47.5	6447	5579	4139	500	301	203	96	37	14	7
50.0	7078	6056	4234	419	269	160	59	18	6	4
52.5	7875	6593	4260	404	235	116	33	7	3	3
55.0	8785	7192	4208	422	205	79	16	4	3	4
57.5	9886	7938	3975	450	185	51	8	3	3	4
60.0	11258	8617	3563	452	179	35	5	4	4	7
62.5	12584	9062	2932	396	159	29	6	4	7	11
65.0	13304	8847	2115	286	111	26	8	5	9	14
67.5	12618	7583	1282	168	59	19	8	6	8	7
70.0	10058	5210	628	102	32	14	7	6	5	3
72.5	5274	2625	322	62	17	9	6	4	2	1
75.0	1520	819	209	28	10	6	4	2	0	0
77.5	491	367	146	11	6	4	2	0	0	0
80.0	316	222	90	6	4	3	0	0	0	0
82.5	187	130	49	6	4	1	0	0	0	0
85.0	116	77	20	4	1	1	1	0	0	0
87.5	60	32	5	1	1	1	1	1	0	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

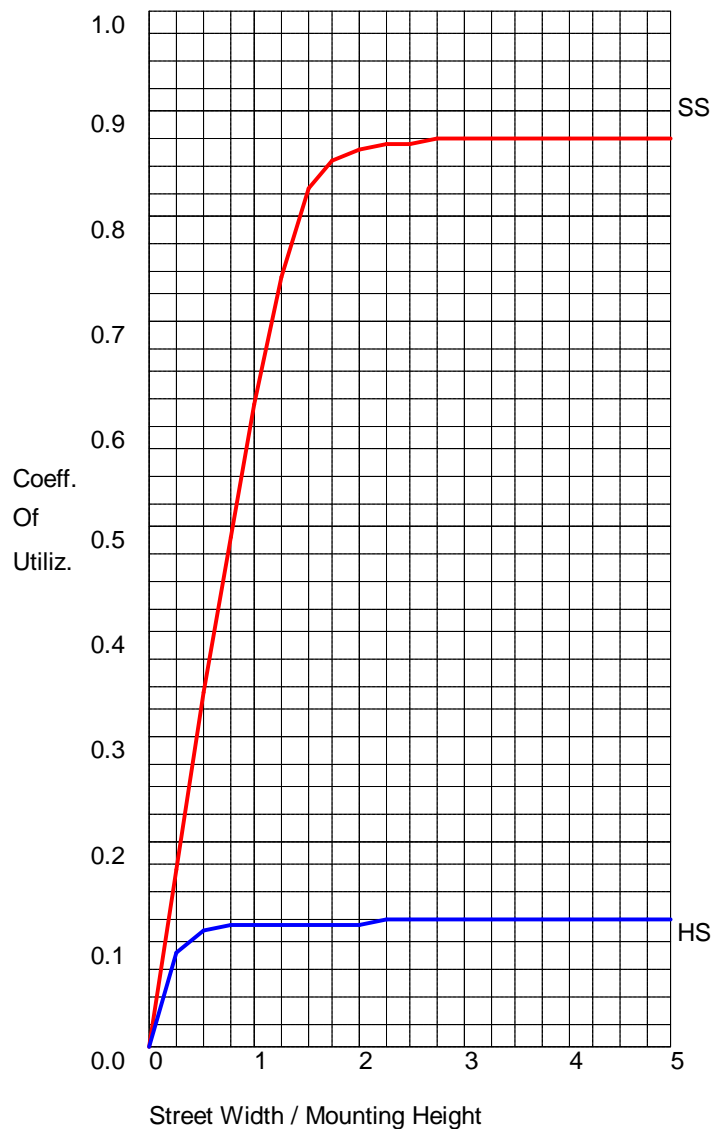
	175	180
0.0	2251	2251
2.5	2170	2167
5.0	2046	2041
7.5	1959	1957
10.0	1852	1855
12.5	1385	1398
15.0	751	708
17.5	411	408
20.0	342	342
22.5	313	313
25.0	288	287
27.5	263	262
30.0	238	236
32.5	202	200
35.0	155	151
37.5	103	101
40.0	60	61
42.5	34	32
45.0	15	14
47.5	4	3
50.0	1	0
52.5	1	0
55.0	2	2
57.5	3	2
60.0	6	6
62.5	10	10
65.0	13	13

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CANDELA TABULATION - (Cont.)

67.5	4	3
70.0	1	0
72.5	0	0
75.0	0	0
77.5	0	0
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0

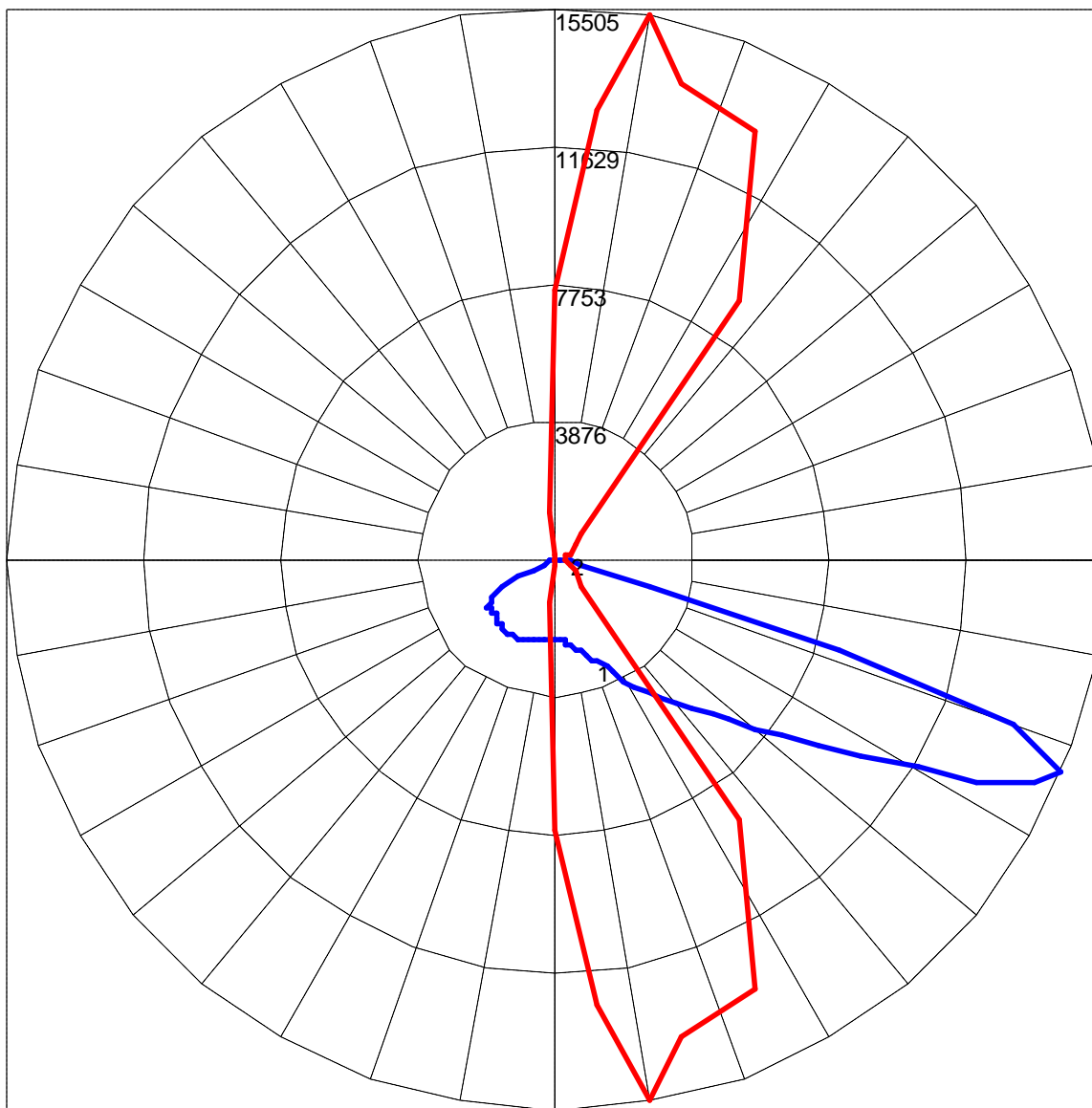
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

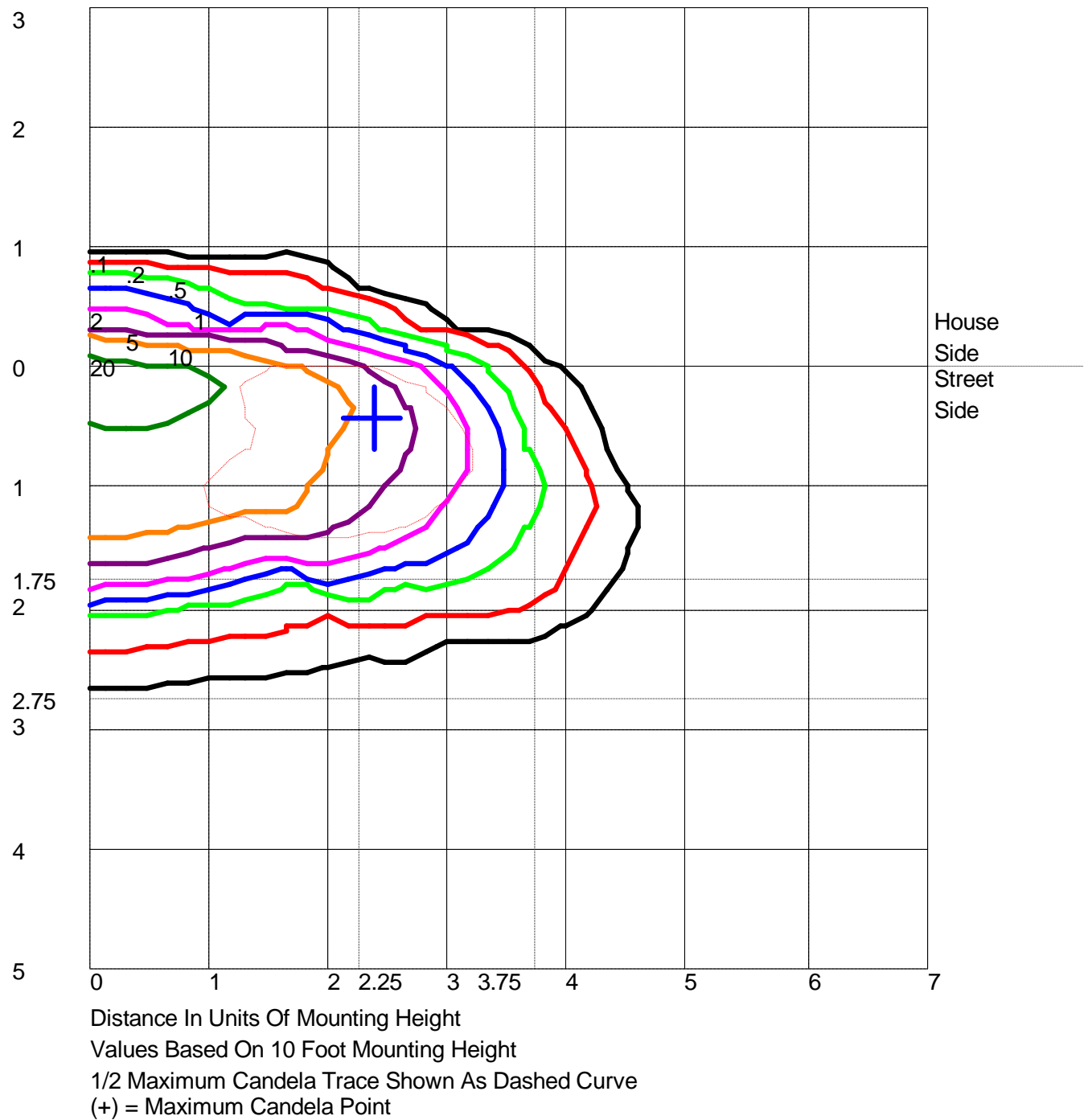
	Lumens	Percent Of Luminaire
Downward Street Side	11454.8	87.9
Downward House Side	1580.4	12.1
Downward Total	13035.3	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	13035.3	100.0

POLAR GRAPH

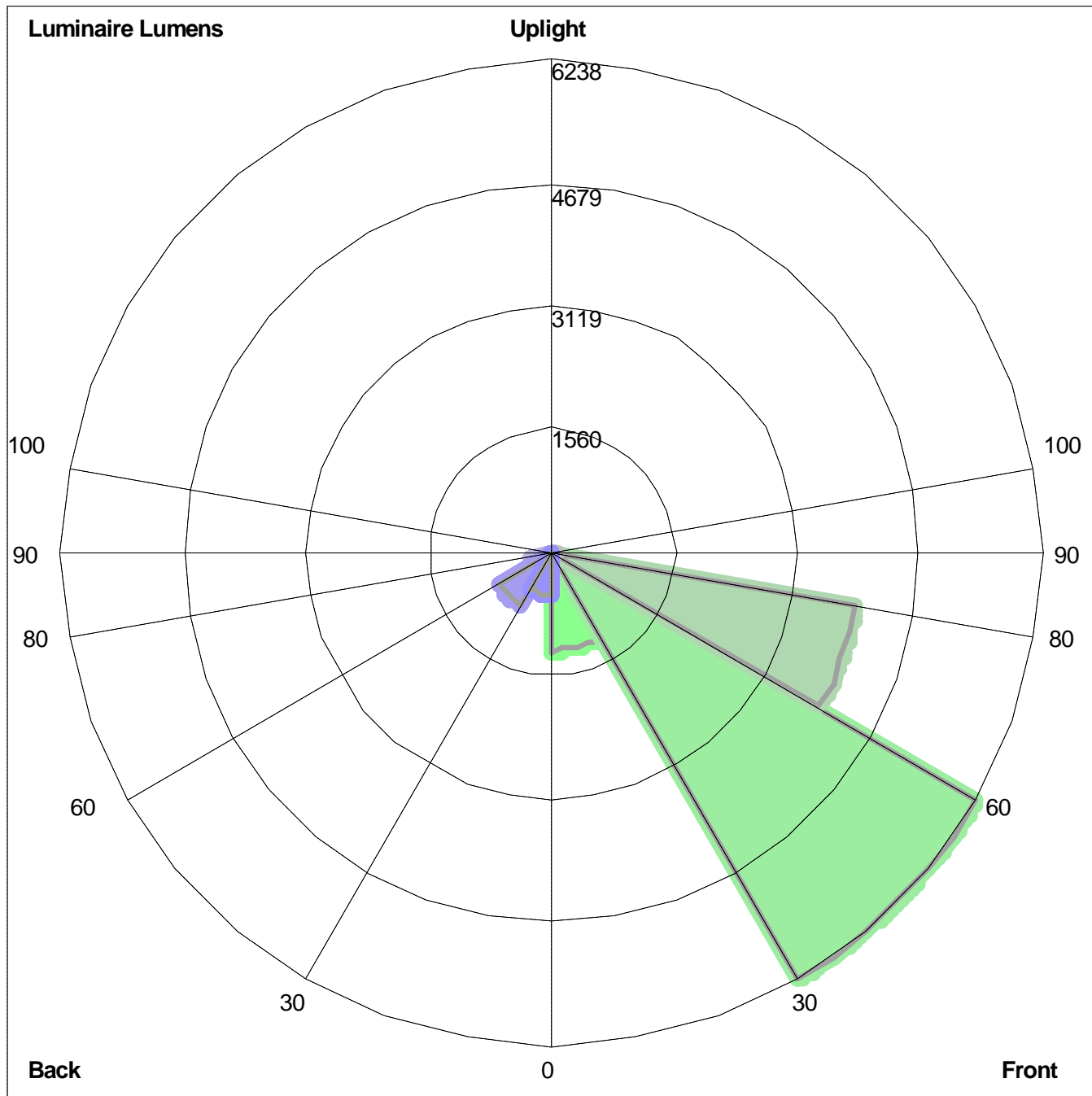


Maximum Candela = 15505 Located At Horizontal Angle = 80, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (80 - 260) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1245.9, Medium=6238.1, High=3917.5, Very High=53.3
Back: Low=537.4, Medium=778.5, High=261.3, Very High=3.1
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G2