



## IES ROAD REPORT

PHOTOMETRIC FILENAME : XMR-FT-LED-18-30-IL.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST]LED-7771  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUEDATE]11/21/16  
[TESTDATE]05/02/16  
[MANUFAC]LSI INDUSTRIES, INC  
[LUMCAT]XMR-FT-LED-18-30-IL  
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER]TEST PROCEDURE: IESNA LM-79-08  
[\_SEARCH\_SOURCETYPE] LED  
[\_SEARCH\_APPLICATION] Outdoor

### CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	12406
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	80
Total Luminaire Watts	154.2
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	11844
Maximum Candela Angle	45H 67.5V
Maximum Candela (<90 Degrees Vertical)	11844
Maximum Candela Angle (<90 Degrees Vertical)	45H 67.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1439 (11.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1080.6	N.A.	8.7
FM - Front-Medium (30-60)	4502.6	N.A.	36.3
FH - Front-High (60-80)	5352.7	N.A.	43.1
FVH - Front-Very High (80-90)	125.3	N.A.	1.0
BL - Back-Low (0-30)	424.9	N.A.	3.4
BM - Back-Medium (30-60)	715.0	N.A.	5.8
BH - Back-High (60-80)	202.5	N.A.	1.6
BVH - Back-Very High (80-90)	2.4	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	12406.0	N.A.	100.0
BUG Rating	B1-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>42.5</u>	<u>45.0</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	1980	1980	1980	1980	1980	1980	1980	1980	1980	1980
2.5	2110	2117	2118	2117	2110	2105	2094	2082	2058	2043
5.0	2143	2150	2151	2160	2166	2178	2176	2177	2153	2125
7.5	2128	2139	2144	2160	2179	2202	2206	2233	2233	2223
10.0	2159	2171	2174	2191	2216	2244	2251	2291	2313	2324
12.5	2232	2245	2247	2260	2282	2311	2318	2363	2406	2427
15.0	2324	2343	2343	2355	2373	2403	2402	2447	2495	2532
17.5	2422	2440	2436	2451	2466	2496	2492	2533	2580	2635
20.0	2520	2537	2536	2538	2552	2576	2577	2613	2656	2713
22.5	2610	2625	2624	2623	2629	2642	2643	2679	2719	2776
25.0	2692	2706	2700	2700	2695	2699	2697	2726	2770	2827
27.5	2769	2782	2771	2761	2748	2744	2742	2763	2808	2868
30.0	2839	2849	2833	2813	2789	2781	2779	2789	2835	2897
32.5	2893	2901	2879	2852	2823	2809	2810	2812	2855	2916
35.0	2938	2942	2916	2879	2851	2839	2840	2836	2869	2932
37.5	2982	2988	2951	2908	2880	2874	2881	2871	2887	2945
40.0	3043	3047	3006	2957	2928	2924	2939	2934	2918	2965
42.5	3152	3145	3101	3047	3018	3026	3034	3038	2985	3001
45.0	3324	3321	3269	3211	3181	3194	3206	3213	3096	3069
47.5	3615	3612	3559	3495	3473	3468	3484	3494	3292	3230
50.0	4074	4073	4058	3956	3919	3894	3916	3930	3618	3448
52.5	4732	4742	4761	4684	4575	4508	4537	4559	4072	3762
55.0	5545	5573	5671	5704	5472	5344	5389	5382	4700	4223
57.5	6254	6294	6555	6793	6689	6432	6475	6412	5494	4722
60.0	6822	6877	7271	7799	7990	7789	7919	7681	6363	5290
62.5	7165	7263	7849	8757	9367	9385	9465	8967	7184	5616
65.0	6711	6897	7779	9394	10667	10915	10884	9998	7733	5627
67.5	5219	5387	6782	9173	11224	11822	11844	10534	7529	4916
70.0	3336	3499	4640	7677	10397	11624	11752	9930	6141	3494
72.5	1186	1280	2006	4334	8353	9884	9996	7782	4233	1951
75.0	520	564	889	1615	4371	6877	6981	5272	2183	758
77.5	380	418	657	1034	1597	3269	3410	2772	921	425
80.0	283	325	550	848	1052	1392	1439	1147	461	277
82.5	208	248	457	679	631	566	513	260	232	174
85.0	146	169	266	295	222	190	156	82	97	102
87.5	37	39	61	100	49	37	38	39	42	47
90.0	0	0	0	0	0	0	0	0	0	0

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	1980	1980	1980	1980	1980	1980	1980	1980	1980	1980
2.5	2024	2021	1994	1953	1932	1890	1866	1842	1818	1802
5.0	2077	2054	1998	1891	1804	1697	1612	1530	1455	1403
7.5	2161	2115	2026	1841	1665	1470	1288	1138	1033	971
10.0	2260	2191	2063	1790	1503	1217	999	878	815	779
12.5	2370	2277	2104	1732	1336	1016	849	770	714	669
15.0	2486	2372	2148	1671	1187	901	778	687	634	607
17.5	2592	2455	2181	1598	1076	838	716	641	602	576
20.0	2682	2524	2199	1533	1002	805	675	620	578	550
22.5	2760	2578	2205	1484	953	767	658	597	553	524
25.0	2818	2624	2206	1451	934	741	641	572	529	502
27.5	2865	2654	2201	1431	931	729	619	549	480	416

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**CANDELA TABULATION - (Cont.)**

30.0	2900	2670	2194	1422	932	718	599	497	369	292
32.5	2920	2669	2189	1420	924	706	567	386	265	234
35.0	2930	2662	2191	1418	909	691	483	292	234	208
37.5	2937	2654	2202	1413	882	653	378	263	211	179
40.0	2946	2652	2223	1405	843	563	327	237	181	157
42.5	2969	2666	2254	1388	770	429	283	203	159	171
45.0	3018	2715	2309	1364	647	325	227	168	143	183
47.5	3135	2824	2403	1328	477	246	175	137	172	111
50.0	3298	2975	2533	1256	314	193	143	115	139	89
52.5	3570	3234	2712	1136	228	161	119	101	102	79
55.0	3916	3529	2918	981	196	144	102	87	82	91
57.5	4257	3814	3098	830	179	127	86	74	87	85
60.0	4534	4007	3097	689	162	102	74	76	65	49
62.5	4576	3975	2790	548	138	81	71	54	40	35
65.0	4293	3594	2152	458	111	71	59	35	29	36
67.5	3448	2760	1343	325	77	69	41	29	42	37
70.0	2199	1746	647	186	54	49	31	38	30	25
72.5	882	643	279	93	41	29	31	28	23	17
75.0	400	307	128	56	29	20	19	20	8	3
77.5	257	194	83	35	16	13	11	5	2	2
80.0	151	116	57	19	9	9	4	2	1	1
82.5	101	75	34	9	6	4	3	1	0	0
85.0	60	37	12	3	2	1	1	0	0	0
87.5	25	10	3	1	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0

**Vert. Horizontal Angles**  
**Angles**

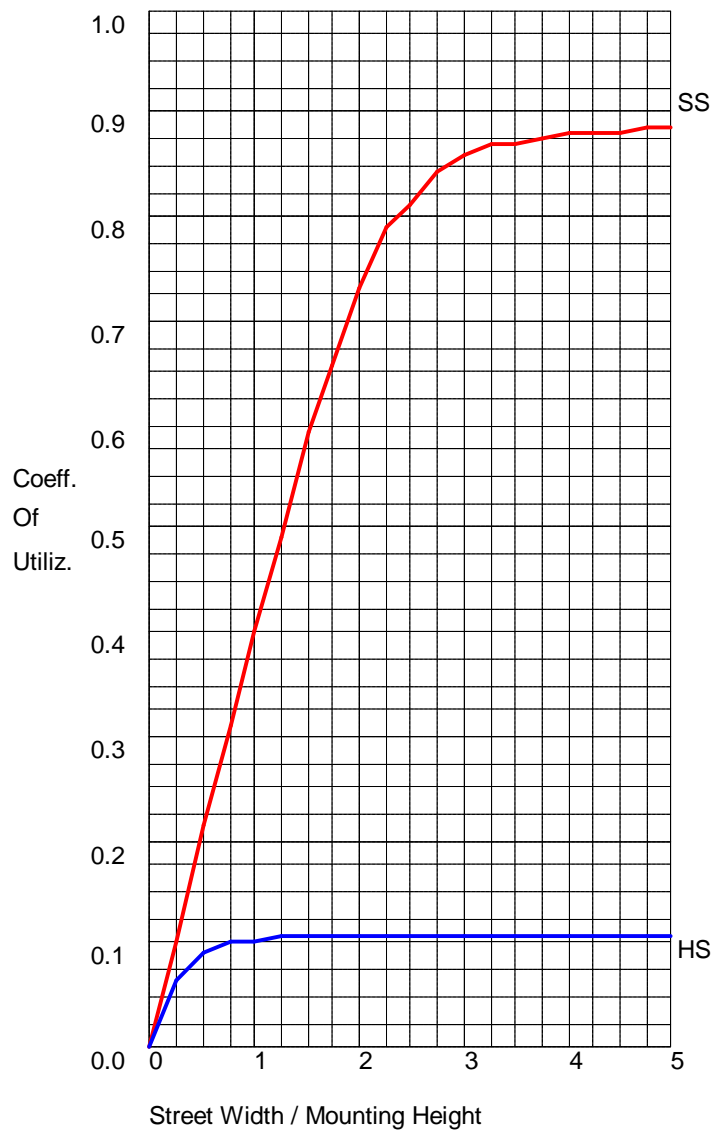
	<b><u>175.0</u></b>	<b><u>180.0</u></b>
0.0	1980	1980
2.5	1809	1798
5.0	1377	1389
7.5	945	951
10.0	765	765
12.5	647	642
15.0	594	590
17.5	566	562
20.0	539	535
22.5	515	511
25.0	486	481
27.5	379	373
30.0	257	252
32.5	222	220
35.0	199	197
37.5	166	164
40.0	149	149
42.5	170	156
45.0	112	108
47.5	94	93
50.0	84	83
52.5	81	80
55.0	99	99
57.5	80	74
60.0	44	40
62.5	29	27
65.0	44	44

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**CANDELA TABULATION - (Cont.)**

<b>67.5</b>	33	32
<b>70.0</b>	22	22
<b>72.5</b>	14	13
<b>75.0</b>	1	0
<b>77.5</b>	0	0
<b>80.0</b>	0	0
<b>82.5</b>	0	0
<b>85.0</b>	0	0
<b>87.5</b>	0	0
<b>90.0</b>	0	0

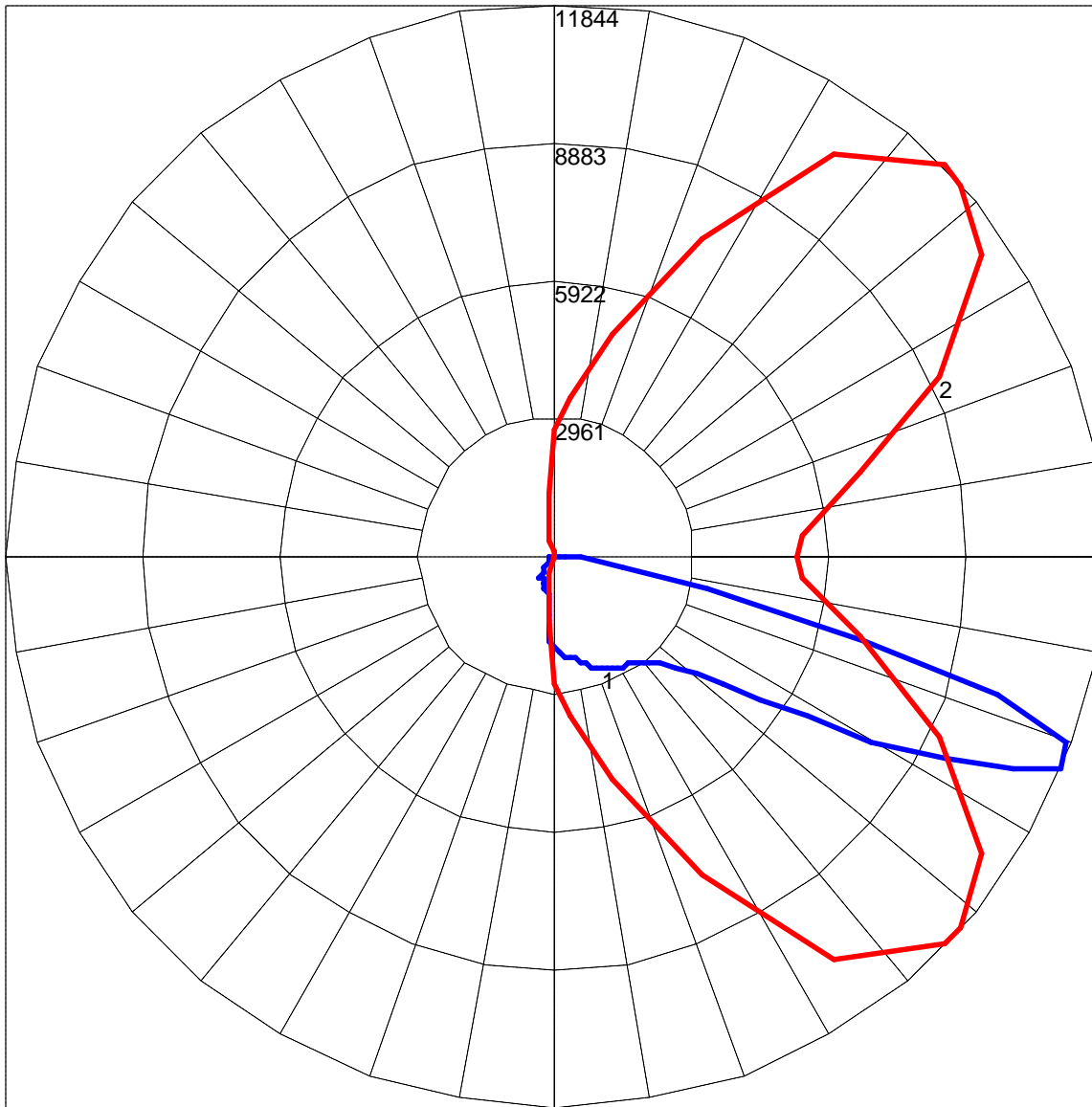
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

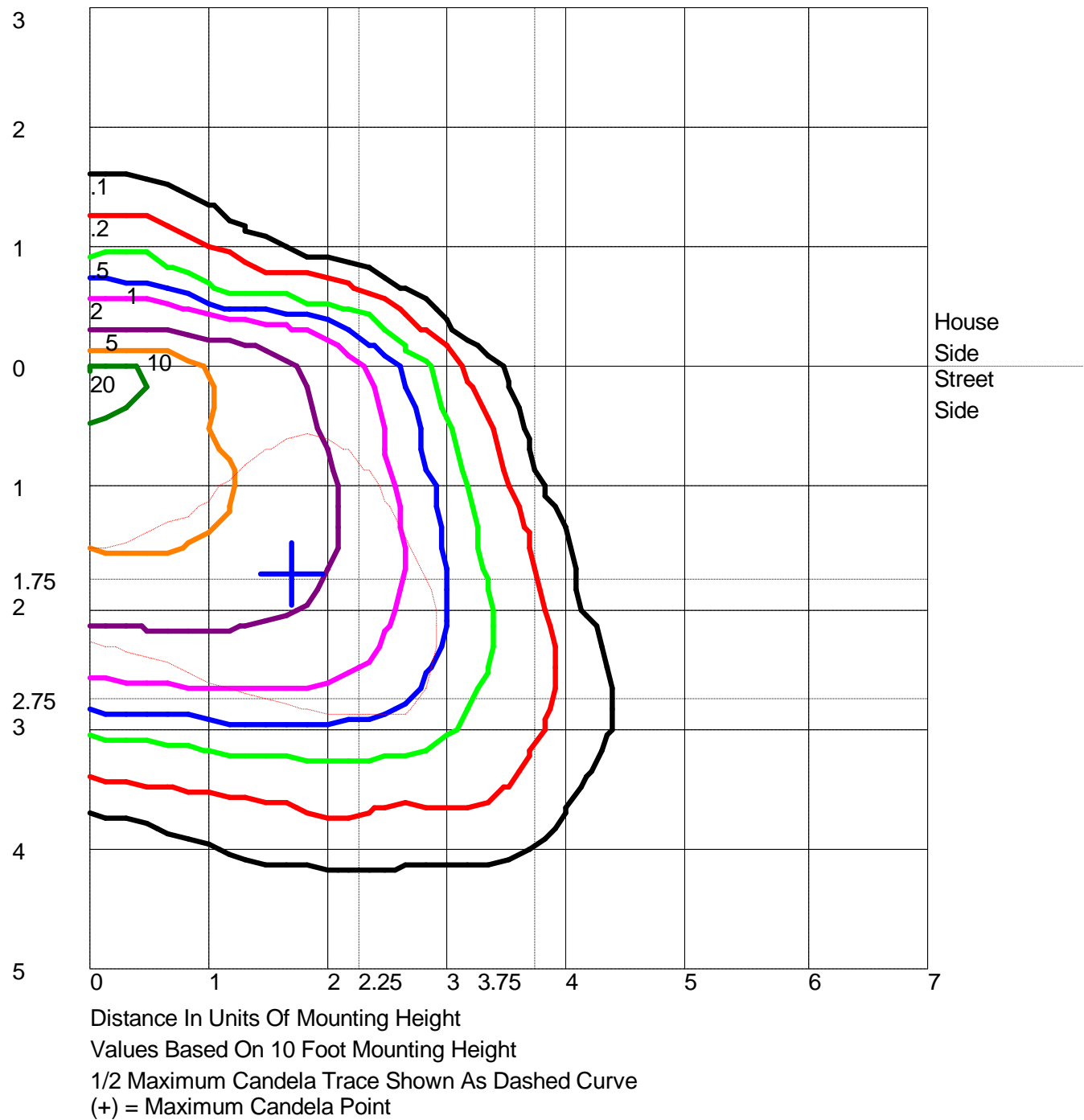
	Lumens	Percent Of Luminaire
Downward Street Side	11061.3	89.2
Downward House Side	1344.7	10.8
Downward Total	12406.0	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	12406.0	100.0

POLAR GRAPH



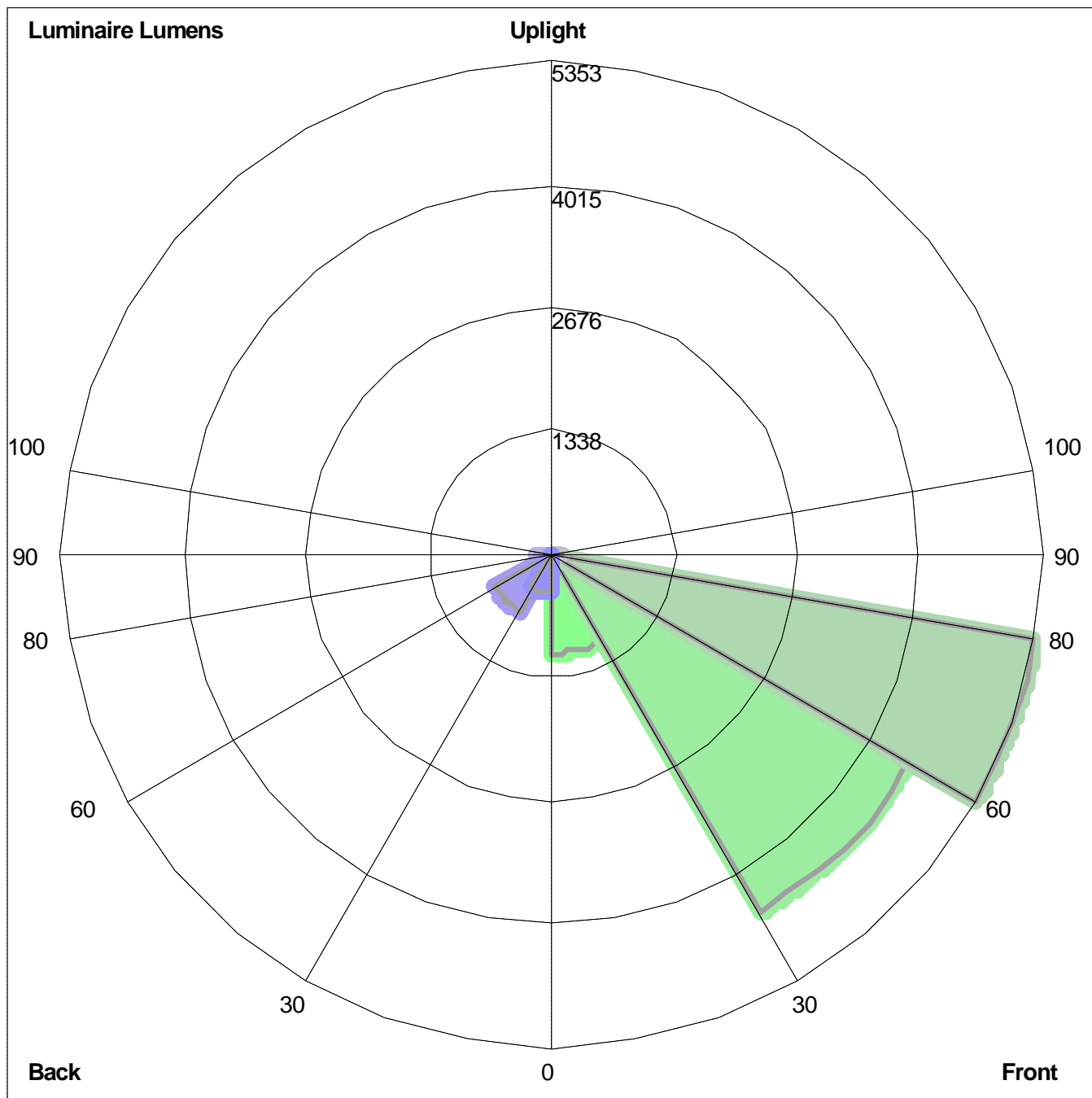
Maximum Candela = 11844 Located At Horizontal Angle = 45, Vertical Angle = 67.5  
# 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=1080.6, Medium=4502.6, High=5352.7, Very High=125.3  
Back: Low=424.9, Medium=715.0, High=202.5, Very High=2.4  
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G3