



## IES ROAD REPORT

PHOTOMETRIC FILENAME : XMR-5W-LED-29-50-IL.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST]LED-7783  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUEDATE]11/21/16  
[TESTDATE]05/05/16  
[MANUFAC]LSI INDUSTRIES, INC  
[LUMCAT]XMR-5W-LED-29-50-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 III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	17238
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	71
Total Luminaire Watts	241.3
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	14009
Maximum Candela Angle	45H 70V
Maximum Candela (<90 Degrees Vertical)	14009
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	675 (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)	1100.6	N.A.	6.4
FM - Front-Medium (30-60)	5935.9	N.A.	34.4
FH - Front-High (60-80)	6080.2	N.A.	35.3
FVH - Front-Very High (80-90)	60.3	N.A.	0.3
BL - Back-Low (0-30)	1000.0	N.A.	5.8
BM - Back-Medium (30-60)	2175.2	N.A.	12.6
BH - Back-High (60-80)	880.0	N.A.	5.1
BVH - Back-Very High (80-90)	6.1	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	17238.3	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	1959	1959	1959	1959	1959	1959	1959	1959	1959	1959
2.5	1988	1964	1964	1966	1963	1962	1945	1959	1960	1955
5.0	1998	1975	1975	1978	1976	1976	1960	1979	1981	1978
7.5	2030	2007	2010	2013	2014	2019	2002	2020	2024	2020
10.0	2084	2063	2067	2071	2075	2083	2067	2085	2086	2086
12.5	2162	2140	2146	2153	2164	2170	2155	2173	2170	2171
15.0	2254	2235	2245	2264	2275	2281	2267	2284	2279	2276
17.5	2363	2347	2365	2399	2408	2421	2409	2420	2408	2398
20.0	2483	2470	2504	2547	2568	2587	2577	2579	2553	2531
22.5	2613	2604	2652	2714	2761	2778	2769	2762	2719	2680
25.0	2756	2750	2816	2902	2972	3005	2997	2969	2906	2856
27.5	2933	2923	2998	3107	3201	3240	3235	3205	3108	3033
30.0	3095	3090	3184	3327	3445	3495	3491	3444	3331	3225
32.5	3267	3267	3381	3554	3705	3767	3763	3700	3562	3435
35.0	3452	3457	3591	3794	3974	4054	4049	3983	3820	3657
37.5	3663	3678	3817	4051	4261	4360	4367	4274	4079	3888
40.0	3862	3884	4047	4311	4557	4692	4682	4577	4350	4155
42.5	4104	4127	4310	4585	4880	5014	5004	4897	4644	4420
45.0	4383	4407	4597	4880	5202	5348	5345	5235	4940	4690
47.5	4631	4667	4875	5220	5544	5700	5706	5575	5250	4990
50.0	4945	4982	5183	5538	5911	6073	6092	5932	5595	5330
52.5	5291	5346	5561	5902	6289	6507	6531	6312	5941	5669
55.0	5675	5700	5908	6269	6700	6960	6983	6739	6324	6055
57.5	6086	6116	6337	6691	7156	7472	7491	7225	6799	6450
60.0	6497	6544	6755	7133	7690	8070	8094	7769	7278	6924
62.5	6919	6980	7277	7668	8354	8851	8871	8467	7920	7616
65.0	7334	7386	7735	8364	9426	10035	10098	9594	9010	8619
67.5	7242	7279	7849	8746	10837	12497	12458	11345	9989	9142
70.0	4849	4913	5931	7976	10815	14009	13951	11902	9195	7346
72.5	1122	1134	1661	3989	8773	12203	12002	9733	6446	4436
75.0	336	358	468	942	3139	8495	8250	5756	2943	1655
77.5	148	153	170	268	777	2267	2549	2081	1041	610
80.0	83	83	94	119	196	529	675	669	549	366
82.5	46	46	52	69	92	127	136	240	296	238
85.0	21	22	27	35	53	69	73	94	146	182
87.5	14	14	17	21	26	38	41	57	93	141
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	1959	1959	1959	1959	1959	1959	1959	1959	1959	1959
2.5	1955	1963	1962	1962	1961	1969	1969	1972	1969	1969
5.0	1981	1988	1990	1996	1997	2007	2007	2011	2007	2010
7.5	2026	2035	2038	2048	2053	2066	2067	2071	2067	2073
10.0	2092	2103	2108	2123	2131	2149	2151	2153	2145	2149
12.5	2183	2191	2205	2221	2233	2255	2263	2262	2245	2244
15.0	2291	2299	2316	2339	2359	2388	2397	2391	2371	2356
17.5	2418	2426	2439	2474	2506	2543	2554	2540	2514	2468
20.0	2544	2563	2580	2623	2672	2720	2735	2702	2541	2331
22.5	2689	2708	2730	2787	2854	2914	2927	2666	2205	1892
25.0	2847	2869	2894	2975	3055	3138	2978	2316	1804	1521
27.5	3012	3031	3064	3167	3271	3342	2699	1921	1462	1239

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**CANDELA TABULATION - (Cont.)**

30.0	3191	3213	3250	3370	3506	3368	2303	1564	1210	1116
32.5	3391	3412	3453	3584	3749	3107	1903	1291	1155	1125
35.0	3594	3613	3656	3804	3952	2704	1550	1212	1171	1138
37.5	3806	3826	3872	4046	3999	2237	1319	1227	1172	1082
40.0	4046	4063	4105	4287	3779	1818	1289	1235	1092	919
42.5	4290	4305	4360	4532	3362	1486	1305	1173	920	722
45.0	4568	4580	4618	4777	2839	1364	1305	1014	699	517
47.5	4884	4895	4931	5014	2290	1369	1227	798	482	339
50.0	5195	5201	5234	5121	1796	1381	1035	545	302	242
52.5	5533	5532	5565	5001	1474	1345	789	338	224	199
55.0	5905	5894	5933	4644	1387	1197	518	228	184	164
57.5	6290	6273	6306	4111	1425	938	299	180	149	132
60.0	6742	6725	6751	3468	1503	608	195	144	119	115
62.5	7378	7347	7334	2767	1565	340	148	113	116	171
65.0	8290	8255	8238	2329	1454	241	117	114	179	227
67.5	8564	8564	8499	2002	1109	251	115	164	199	265
70.0	6454	6421	6320	1503	664	267	170	156	185	254
72.5	3617	3562	3286	712	285	213	154	141	182	202
75.0	1205	1164	963	236	102	129	115	143	104	61
77.5	467	431	334	100	45	51	91	57	25	16
80.0	294	258	175	53	19	28	29	13	8	4
82.5	183	148	94	22	8	7	7	4	1	0
85.0	114	81	41	4	3	3	2	0	0	0
87.5	64	28	4	1	1	1	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0

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

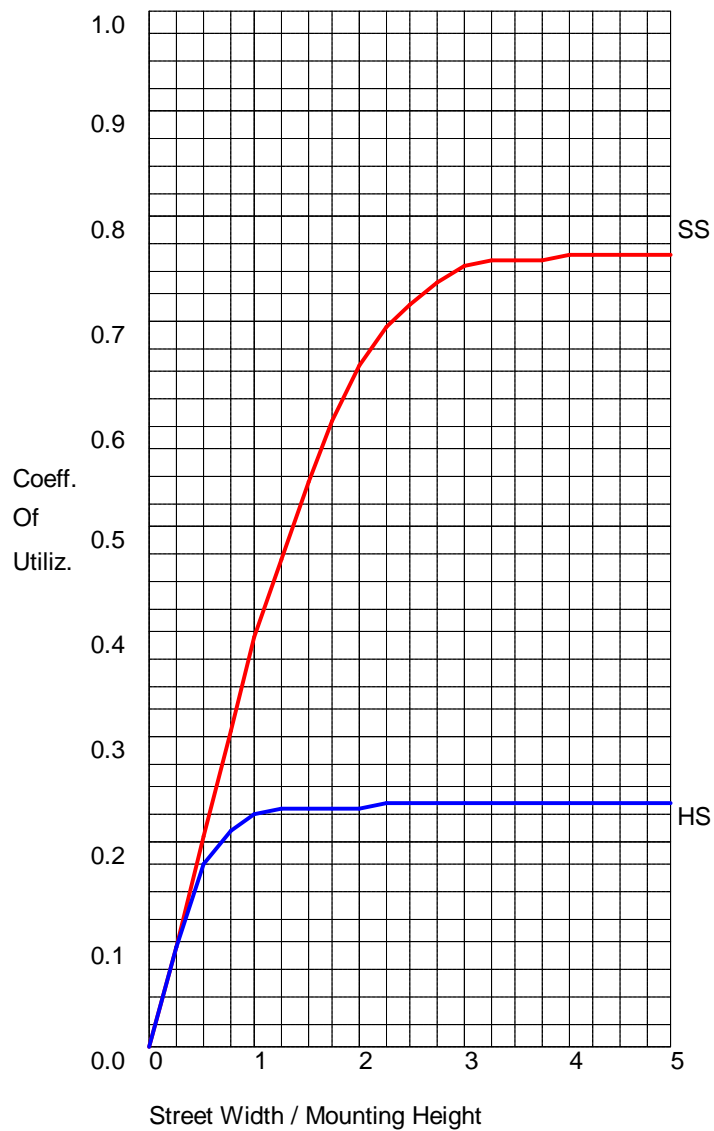
	<b>175.0</b>	<b>180.0</b>
0.0	1959	1959
2.5	1961	1964
5.0	2003	2006
7.5	2063	2065
10.0	2138	2140
12.5	2231	2230
15.0	2338	2336
17.5	2427	2419
20.0	2192	2172
22.5	1766	1748
25.0	1413	1397
27.5	1151	1148
30.0	1088	1083
32.5	1106	1103
35.0	1106	1095
37.5	1008	993
40.0	831	815
42.5	633	619
45.0	440	429
47.5	295	290
50.0	228	227
52.5	191	189
55.0	155	156
57.5	124	123
60.0	125	126
62.5	186	183
65.0	215	198

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**CANDELA TABULATION - (Cont.)**

<b>67.5</b>	210	190
<b>70.0</b>	177	171
<b>72.5</b>	152	147
<b>75.0</b>	30	30
<b>77.5</b>	6	2
<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

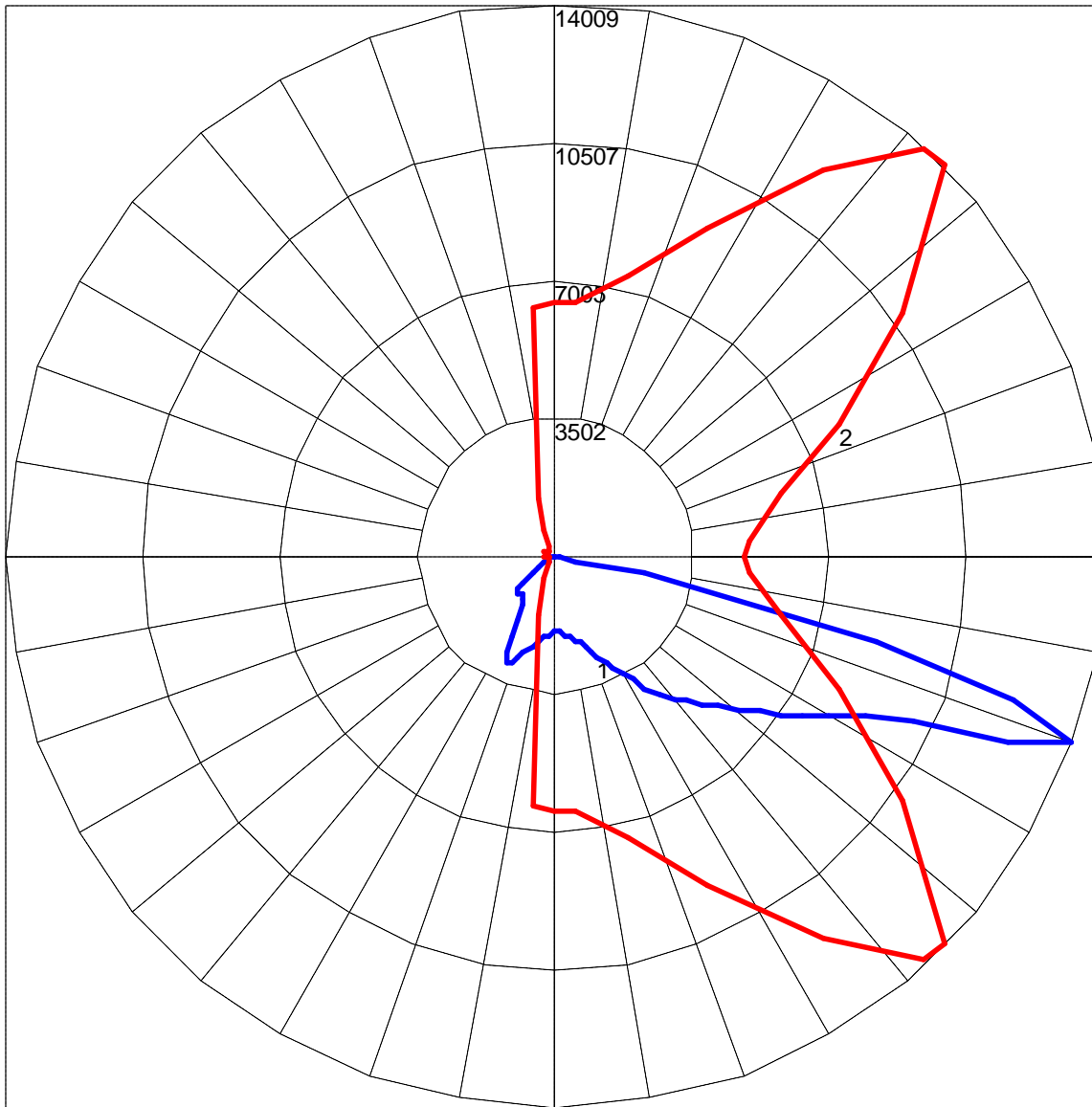
### COEFFICIENTS OF UTILIZATION



### FLUX DISTRIBUTION

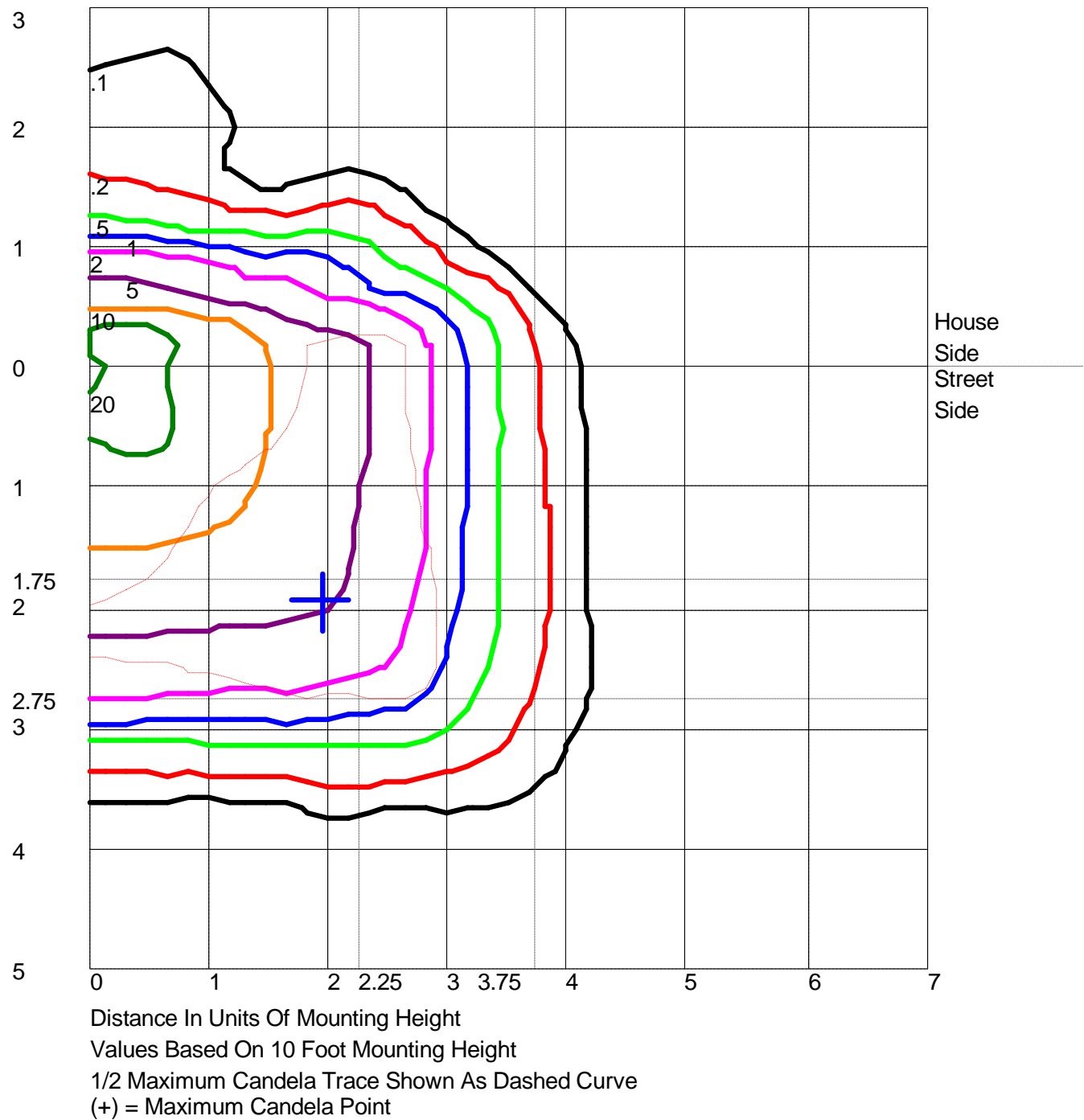
	Lumens	Percent Of Luminaire
Downward Street Side	13177.0	76.4
Downward House Side	4061.3	23.6
Downward Total	17238.3	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	17238.3	100.0

POLAR GRAPH



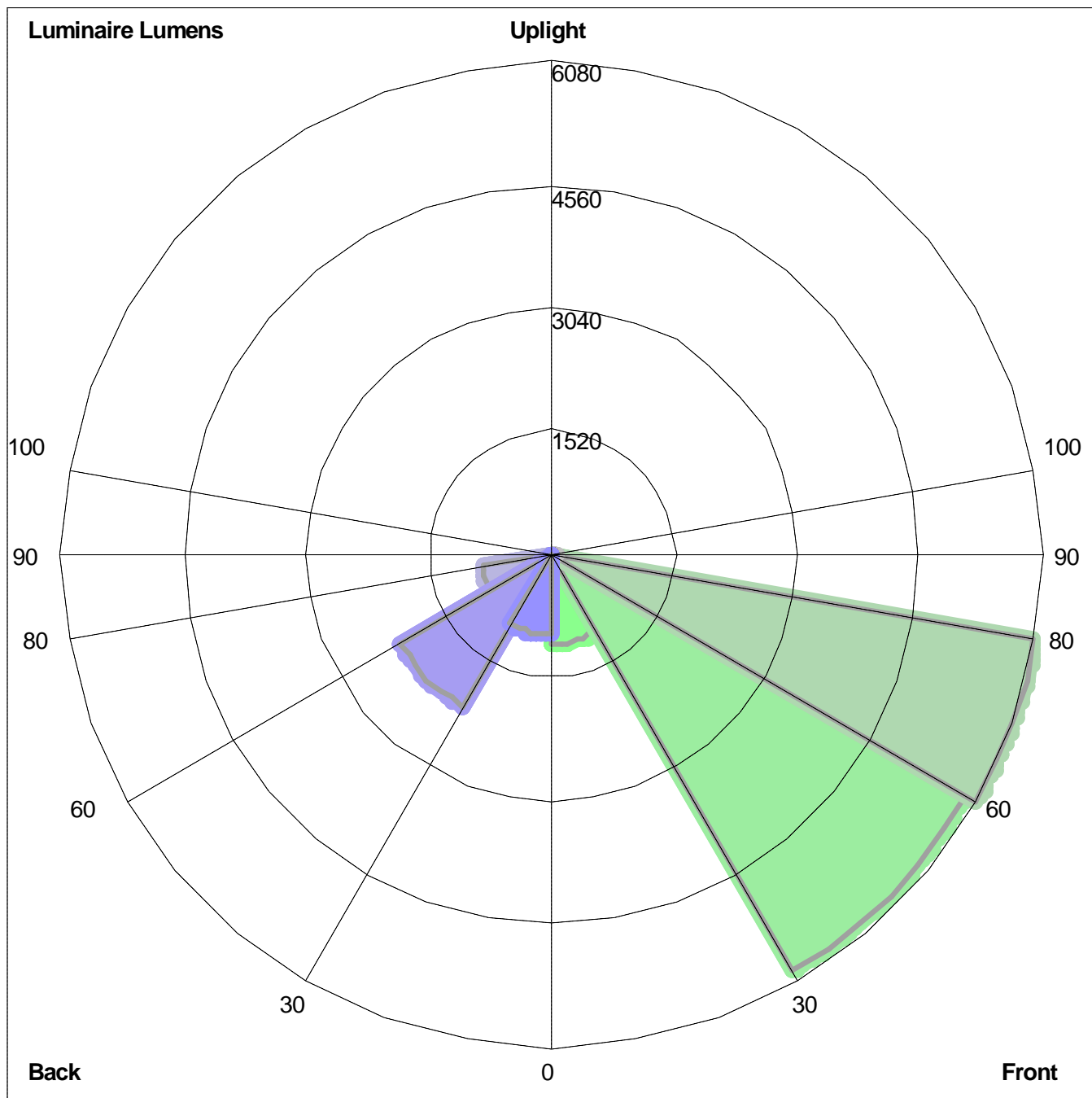
Maximum Candela = 14009 Located At Horizontal Angle = 45, Vertical Angle = 70  
# 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=1100.6, Medium=5935.9, High=6080.2, Very High=60.3  
Back: Low= 1000.0, Medium=2175.2, High=880.0, Very High=6.1  
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G3