



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : XMR-5W-LED-29-40-IL.IES**

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-7774  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]11/21/16  
[TEST DATE]05/03/16  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMEN CATEGORY]XMR-5W-LED-29-40-IL  
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER]TEST PROCEDURE: IESNA LM-79-08  
[SEARCH\_SOURCE TYPE] LED

**CHARACTERISTICS**

IES Classification	Type IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	17109
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	71
Total Luminaire Watts	242.2
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	13202
Maximum Candela Angle	45H 72.5V
Maximum Candela (<90 Degrees Vertical)	13202
Maximum Candela Angle (<90 Degrees Vertical)	45H 72.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	3566 (20.8% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1098.2	N.A.	6.4
FM - Front-Medium (30-60)	5790.1	N.A.	33.8
FH - Front-High (60-80)	6732.6	N.A.	39.4
FVH - Front-Very High (80-90)	150.0	N.A.	0.9
BL - Back-Low (0-30)	848.2	N.A.	5.0
BM - Back-Medium (30-60)	1728.6	N.A.	10.1
BH - Back-High (60-80)	756.3	N.A.	4.4
BVH - Back-Very High (80-90)	5.2	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	17109.2	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	1902	1902	1902	1902	1902	1902	1902	1902	1902	1902
2.5	1945	1921	1918	1915	1917	1913	1895	1909	1907	1907
5.0	1972	1948	1945	1944	1944	1940	1921	1936	1933	1934
7.5	2020	1996	1994	1995	1993	1989	1971	1984	1980	1980
10.0	2087	2064	2067	2067	2069	2057	2042	2053	2047	2043
12.5	2174	2152	2159	2161	2165	2158	2136	2142	2132	2127
15.0	2277	2258	2269	2277	2287	2279	2257	2257	2241	2234
17.5	2410	2385	2396	2413	2431	2426	2410	2408	2372	2354
20.0	2544	2521	2541	2571	2599	2603	2588	2575	2527	2487
22.5	2687	2667	2698	2746	2793	2800	2789	2767	2703	2631
25.0	2835	2818	2867	2942	3010	3033	3012	2979	2889	2789
27.5	2996	2991	3047	3148	3242	3273	3267	3209	3091	2965
30.0	3168	3168	3244	3372	3489	3531	3526	3449	3308	3148
32.5	3346	3350	3445	3606	3759	3801	3798	3704	3529	3351
35.0	3531	3538	3665	3847	4028	4082	4080	3964	3763	3565
37.5	3734	3746	3890	4108	4310	4376	4375	4237	4016	3787
40.0	3950	3966	4123	4383	4605	4681	4681	4530	4274	4020
42.5	4159	4183	4372	4652	4919	5011	5015	4832	4536	4261
45.0	4424	4444	4618	4922	5222	5331	5339	5139	4816	4534
47.5	4683	4705	4897	5209	5526	5644	5665	5468	5123	4804
50.0	4926	4950	5156	5492	5844	5991	6005	5809	5414	5085
52.5	5194	5210	5420	5773	6165	6349	6365	6124	5746	5399
55.0	5494	5526	5722	6055	6485	6724	6736	6473	6083	5728
57.5	5792	5829	6018	6387	6851	7131	7153	6839	6438	6103
60.0	6105	6142	6365	6723	7230	7582	7608	7254	6845	6496
62.5	6464	6487	6718	7114	7684	8111	8147	7779	7265	6918
65.0	6765	6816	7090	7509	8196	8802	8858	8362	7871	7691
67.5	7098	7125	7494	8001	8898	9695	9856	9373	8885	8348
70.0	7189	7197	7593	8445	10127	11649	11715	10790	9213	7805
72.5	6101	6185	6888	8115	10614	13202	13028	10873	7888	5789
75.0	2030	2021	3369	5637	9118	12197	11773	8700	4990	3125
77.5	495	491	649	1641	4653	8099	7792	5103	2495	1204
80.0	208	206	242	401	1044	3566	3421	2189	970	497
82.5	111	108	115	148	293	721	759	745	494	299
85.0	61	59	64	78	110	182	223	260	266	209
87.5	28	30	34	43	58	70	75	94	146	161
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	1902	1902	1902	1902	1902	1902	1902	1902	1902	1902
2.5	1903	1898	1896	1899	1903	1903	1903	1903	1899	1897
5.0	1929	1924	1920	1926	1930	1929	1927	1926	1919	1919
7.5	1976	1969	1970	1972	1975	1975	1973	1970	1958	1958
10.0	2040	2032	2032	2037	2043	2039	2039	2032	2021	2012
12.5	2124	2115	2116	2122	2132	2128	2129	2118	2102	2088
15.0	2225	2216	2216	2228	2244	2243	2245	2225	2171	2102
17.5	2338	2328	2331	2359	2375	2388	2378	2259	1997	1780
20.0	2461	2450	2456	2497	2525	2548	2435	1997	1630	1410
22.5	2594	2583	2592	2646	2709	2695	2219	1653	1317	1137
25.0	2740	2728	2740	2808	2892	2677	1897	1361	1096	998
27.5	2897	2882	2895	2991	3071	2437	1570	1144	1030	999

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**CANDELA TABULATION - (Cont.)**

30.0	3061	3044	3059	3174	3194	2122	1313	1077	1042	1008
32.5	3237	3219	3242	3365	3151	1797	1160	1093	1055	1016
35.0	3444	3418	3431	3565	2936	1506	1153	1111	1060	958
37.5	3644	3626	3628	3768	2621	1294	1175	1120	967	798
40.0	3855	3834	3837	3957	2254	1226	1195	1057	781	611
42.5	4098	4061	4063	4090	1878	1234	1186	880	585	425
45.0	4339	4299	4304	4094	1556	1250	1098	675	388	267
47.5	4597	4553	4559	3922	1350	1256	912	457	248	205
50.0	4884	4838	4838	3621	1267	1204	685	281	192	170
52.5	5192	5146	5137	3234	1263	1054	449	197	159	141
55.0	5523	5471	5447	2784	1272	818	259	159	129	112
57.5	5915	5849	5857	2416	1262	552	176	128	101	98
60.0	6286	6252	6207	2132	1196	321	137	98	97	118
62.5	6772	6726	6610	1987	1043	187	107	97	110	142
65.0	7537	7502	6992	1946	915	148	101	130	160	232
67.5	7782	7657	6738	1753	780	181	147	182	229	304
70.0	6844	6605	5364	1258	525	171	180	201	233	242
72.5	4377	4037	3124	699	264	91	177	191	175	117
75.0	2149	1889	1310	253	101	72	122	123	49	18
77.5	739	613	405	87	35	27	68	27	9	1
80.0	320	261	171	41	13	13	18	1	0	0
82.5	202	156	88	19	2	1	0	0	0	0
85.0	122	84	41	1	0	0	0	0	0	0
87.5	71	38	15	0	1	1	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0

**Vert. Horizontal Angles**

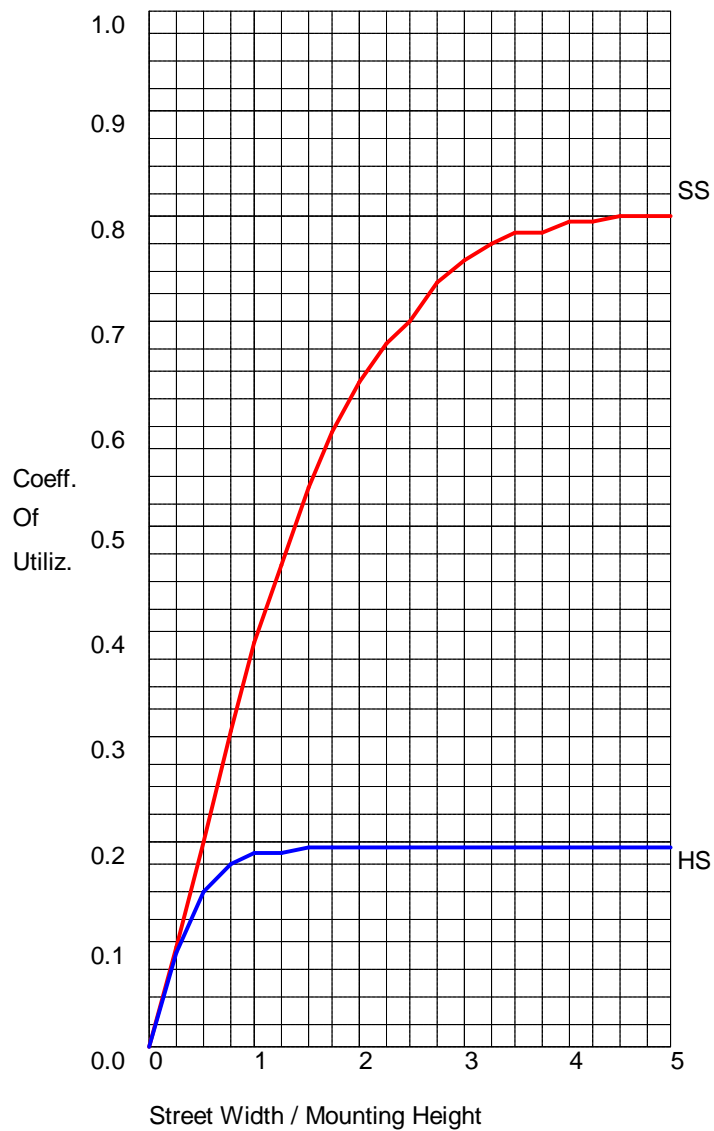
	<b><u>175.0</u></b>	<b><u>180.0</u></b>
0.0	1902	1902
2.5	1897	1896
5.0	1918	1917
7.5	1955	1955
10.0	2007	2006
12.5	2076	2072
15.0	2058	2048
17.5	1675	1638
20.0	1318	1288
22.5	1067	1044
25.0	980	971
27.5	988	978
30.0	995	984
32.5	998	987
35.0	895	879
37.5	719	704
40.0	535	522
42.5	360	352
45.0	238	238
47.5	193	191
50.0	162	160
52.5	131	129
55.0	102	101
57.5	111	113
60.0	114	110
62.5	135	123
65.0	209	192

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**CANDELA TABULATION - (Cont.)**

<b>67.5</b>	225	213
<b>70.0</b>	166	153
<b>72.5</b>	56	54
<b>75.0</b>	0	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

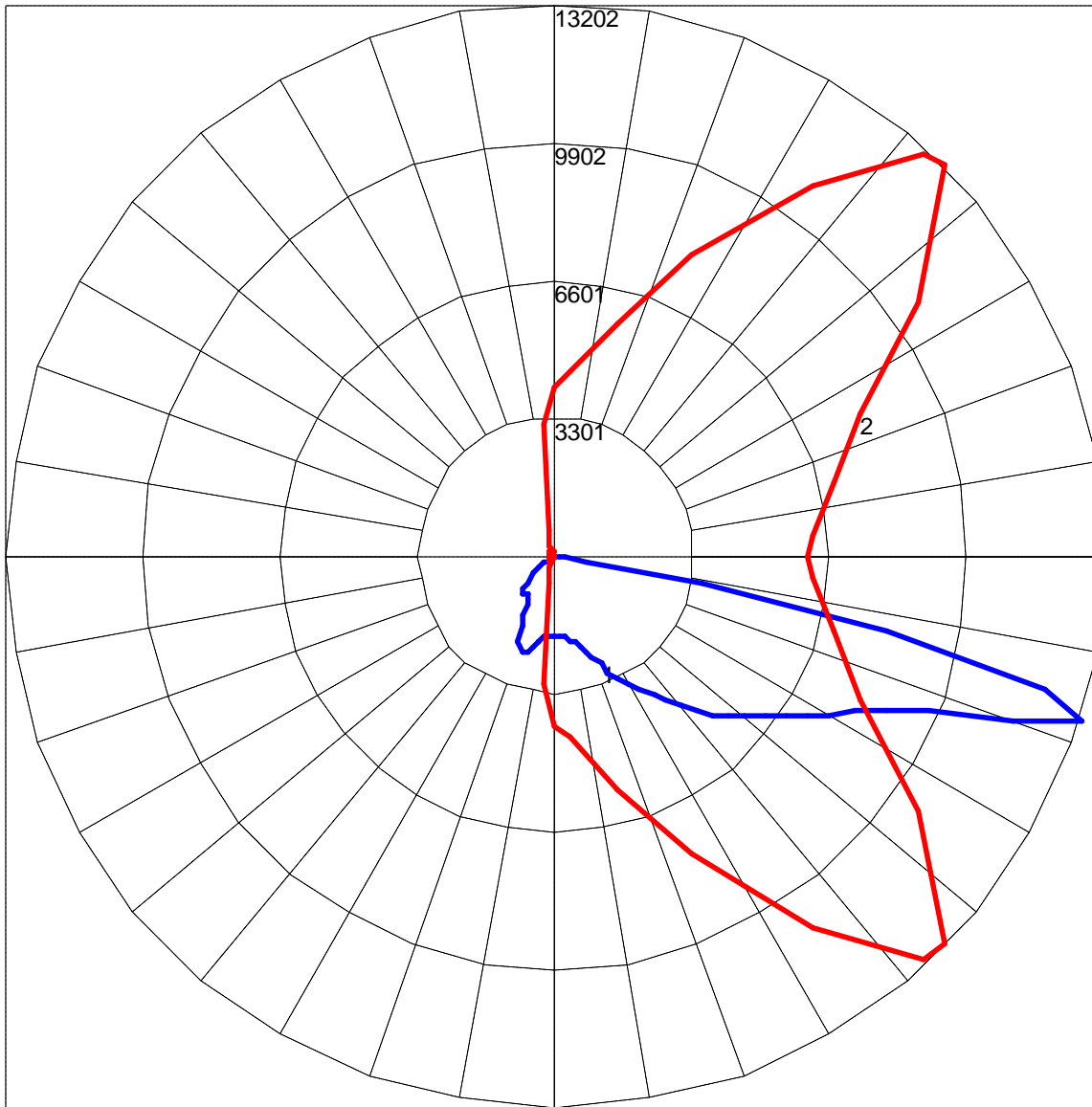
### COEFFICIENTS OF UTILIZATION



### FLUX DISTRIBUTION

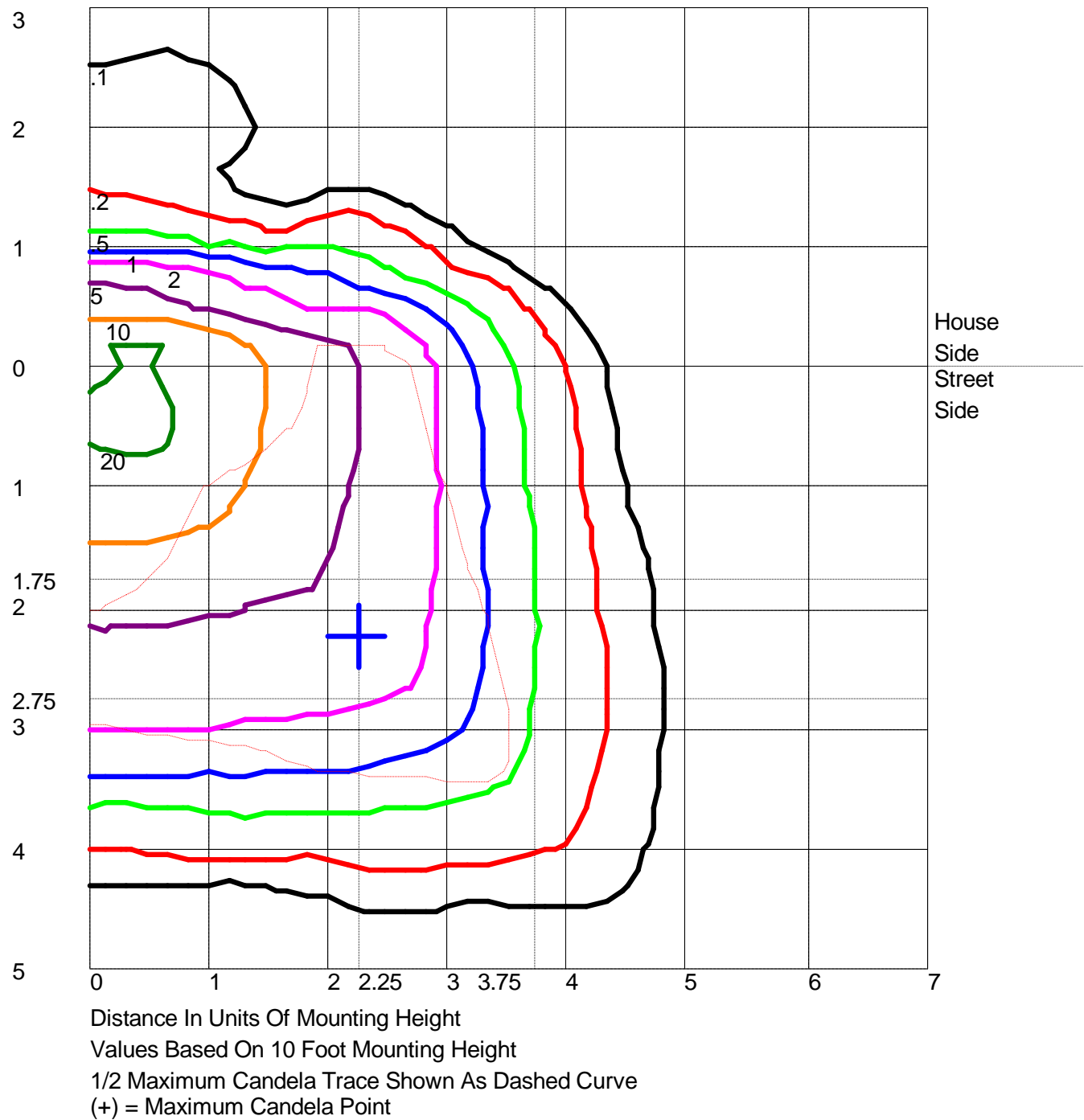
	Lumens	Percent Of Luminaire
Downward Street Side	13770.9	80.5
Downward House Side	3338.3	19.5
Downward Total	17109.2	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	17109.2	100.0

POLAR GRAPH



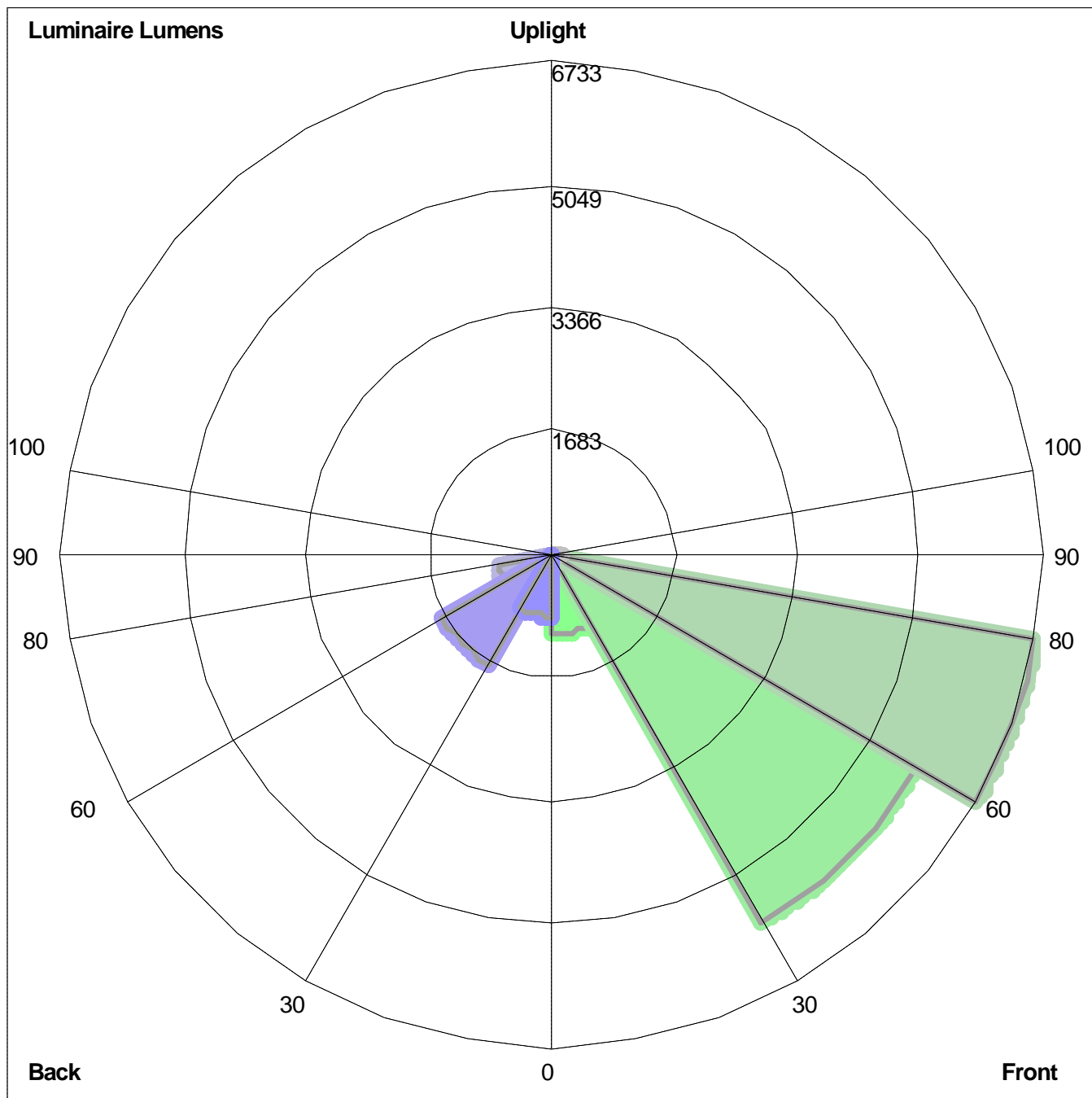
Maximum Candela = 13202 Located At Horizontal Angle = 45, Vertical Angle = 72.5  
# 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (72.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=1098.2, Medium=5790.1, High=6732.6, Very High=150.0  
Back: Low=848.2, Medium=1728.6, High=756.3, Very High=5.2  
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G3