



IES ROAD REPORT
PHOTOMETRIC FILENAME : GSQ-06L-FT-40.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-12867
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 08/26/2021
[TEST DATE] 07/30/21
[MANUFACTURER] LSI INDUSTRIES, INC.
[LUMCAT] GSQ-06L-FT-40
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER] SCALED FROM ORIGINAL TEST DATA
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] OUTDOOR
[SEARCH_COLORTEMP] 4000

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5970
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	49
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2770
Maximum Candela Angle	0H 30V
Maximum Candela (<90 Degrees Vertical)	2770
Maximum Candela Angle (<90 Degrees Vertical)	0H 30V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	231 (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)	1051.4	N.A.	17.6
FM - Front-Medium (30-60)	2331.6	N.A.	39.1
FH - Front-High (60-80)	763.2	N.A.	12.8
FVH - Front-Very High (80-90)	33.9	N.A.	0.6
BL - Back-Low (0-30)	748.1	N.A.	12.5
BM - Back-Medium (30-60)	876.0	N.A.	14.7
BH - Back-High (60-80)	158.1	N.A.	2.6
BVH - Back-Very High (80-90)	8.2	N.A.	0.1
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	5970.5	N.A.	100.0
BUG Rating	B2-U0-G1		

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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>85</u>
0.0	2240	2240	2240	2240	2240	2240	2240	2240	2240	2240
2.5	2237	2238	2248	2254	2261	2271	2276	2280	2278	2280
5.0	2307	2308	2315	2311	2309	2314	2313	2308	2301	2295
7.5	2400	2402	2409	2407	2410	2402	2377	2349	2325	2312
10.0	2458	2458	2471	2487	2490	2489	2458	2397	2344	2309
12.5	2494	2495	2508	2522	2525	2530	2496	2417	2339	2284
15.0	2563	2559	2563	2569	2553	2536	2499	2433	2339	2274
17.5	2627	2623	2627	2625	2588	2527	2486	2434	2352	2264
20.0	2675	2671	2668	2671	2618	2548	2494	2444	2351	2239
22.5	2702	2697	2704	2702	2642	2579	2510	2443	2353	2218
25.0	2736	2731	2739	2714	2651	2598	2520	2430	2342	2188
27.5	2753	2753	2760	2734	2663	2606	2517	2404	2311	2151
30.0	2770	2759	2762	2724	2658	2589	2487	2365	2259	2096
32.5	2763	2756	2752	2699	2644	2569	2455	2325	2189	2030
35.0	2743	2736	2720	2670	2614	2532	2407	2270	2132	1959
37.5	2707	2701	2681	2641	2569	2469	2349	2210	2051	1882
40.0	2651	2642	2629	2579	2514	2403	2280	2136	1966	1790
42.5	2583	2567	2554	2502	2437	2327	2190	2042	1868	1694
45.0	2497	2487	2467	2412	2339	2239	2101	1944	1764	1590
47.5	2393	2379	2363	2312	2235	2134	1998	1844	1659	1482
50.0	2278	2262	2244	2191	2122	2010	1886	1729	1547	1369
52.5	2139	2136	2115	2064	1984	1881	1749	1599	1424	1255
55.0	1996	1991	1972	1925	1843	1742	1613	1462	1299	1138
57.5	1836	1836	1818	1770	1694	1593	1471	1330	1177	1018
60.0	1660	1655	1638	1606	1532	1434	1326	1198	1048	901
62.5	1473	1467	1457	1416	1356	1276	1179	1061	924	783
65.0	1277	1273	1257	1230	1187	1116	1032	927	803	674
67.5	1081	1077	1064	1043	1004	954	884	795	678	565
70.0	887	885	873	859	829	796	739	666	565	469
72.5	701	691	692	683	663	633	599	535	459	378
75.0	510	518	520	516	504	488	460	417	358	293
77.5	353	354	365	364	360	352	331	302	264	215
80.0	215	215	219	229	225	231	220	203	175	148
82.5	98	99	104	111	117	123	124	118	104	86
85.0	14	15	19	21	32	43	49	50	46	36
87.5	0	0	1	1	1	1	2	5	7	6
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	<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>	<u>175</u>
0.0	2240	2240	2240	2240	2240	2240	2240	2240	2240	2240
2.5	2280	2279	2264	2252	2239	2221	2206	2189	2174	2169
5.0	2291	2285	2261	2236	2210	2179	2152	2127	2109	2102
7.5	2301	2288	2248	2212	2177	2139	2104	2064	2035	2020
10.0	2290	2268	2215	2175	2132	2077	2030	1989	1955	1939
12.5	2262	2237	2169	2114	2058	1996	1949	1904	1875	1847
15.0	2246	2212	2132	2064	1990	1911	1857	1819	1790	1759
17.5	2232	2193	2106	2013	1924	1840	1776	1726	1671	1636
20.0	2206	2166	2063	1962	1864	1764	1675	1603	1558	1529
22.5	2174	2124	2015	1890	1783	1667	1568	1491	1448	1412
25.0	2139	2074	1949	1810	1692	1558	1464	1382	1334	1295
27.5	2086	2017	1876	1728	1599	1452	1351	1267	1212	1179

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CANDELA TABULATION - (Cont.)

30.0	2030	1955	1803	1647	1496	1351	1236	1153	1096	1061
32.5	1960	1879	1711	1552	1380	1240	1123	1035	972	931
35.0	1880	1798	1620	1447	1268	1128	1009	915	849	809
37.5	1797	1702	1521	1338	1155	1008	892	798	727	691
40.0	1701	1606	1421	1227	1047	897	780	687	615	582
42.5	1592	1504	1322	1114	937	789	663	571	515	486
45.0	1487	1398	1212	1002	829	682	558	477	430	403
47.5	1381	1293	1098	897	729	577	469	397	351	331
50.0	1268	1179	987	797	630	487	389	325	283	265
52.5	1154	1067	882	688	534	406	320	261	225	208
55.0	1040	958	779	595	452	336	259	208	180	165
57.5	930	850	676	510	378	276	208	167	143	131
60.0	820	746	582	434	310	222	166	134	113	104
62.5	711	646	497	362	253	177	132	106	92	86
65.0	605	547	419	300	205	143	106	85	77	73
67.5	510	460	346	244	165	114	84	70	65	63
70.0	421	374	279	195	130	89	67	58	55	53
72.5	338	300	221	152	99	70	53	48	46	45
75.0	262	232	169	110	74	52	41	39	37	37
77.5	191	170	124	77	52	36	30	29	29	29
80.0	132	117	81	49	32	23	21	20	20	20
82.5	79	68	46	28	18	13	12	12	13	13
85.0	33	31	19	12	7	6	6	6	7	7
87.5	6	5	4	2	2	2	2	1	1	1
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

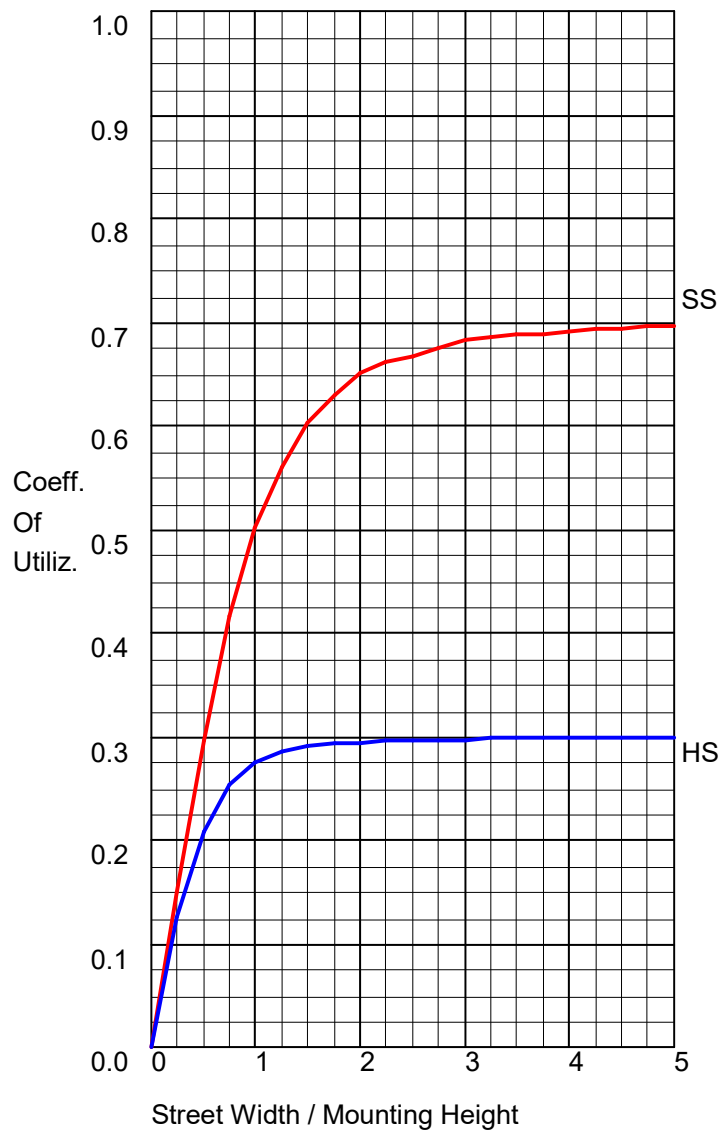
	180
0.0	2240
2.5	2167
5.0	2101
7.5	2020
10.0	1938
12.5	1844
15.0	1755
17.5	1626
20.0	1524
22.5	1410
25.0	1290
27.5	1161
30.0	1048
32.5	926
35.0	803
37.5	688
40.0	579
42.5	483
45.0	400
47.5	327
50.0	263
52.5	208
55.0	161
57.5	128
60.0	104
62.5	85
65.0	73

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CANDELA TABULATION - (Cont.)

67.5	63
70.0	53
72.5	46
75.0	37
77.5	28
80.0	20
82.5	13
85.0	7
87.5	1
90.0	0

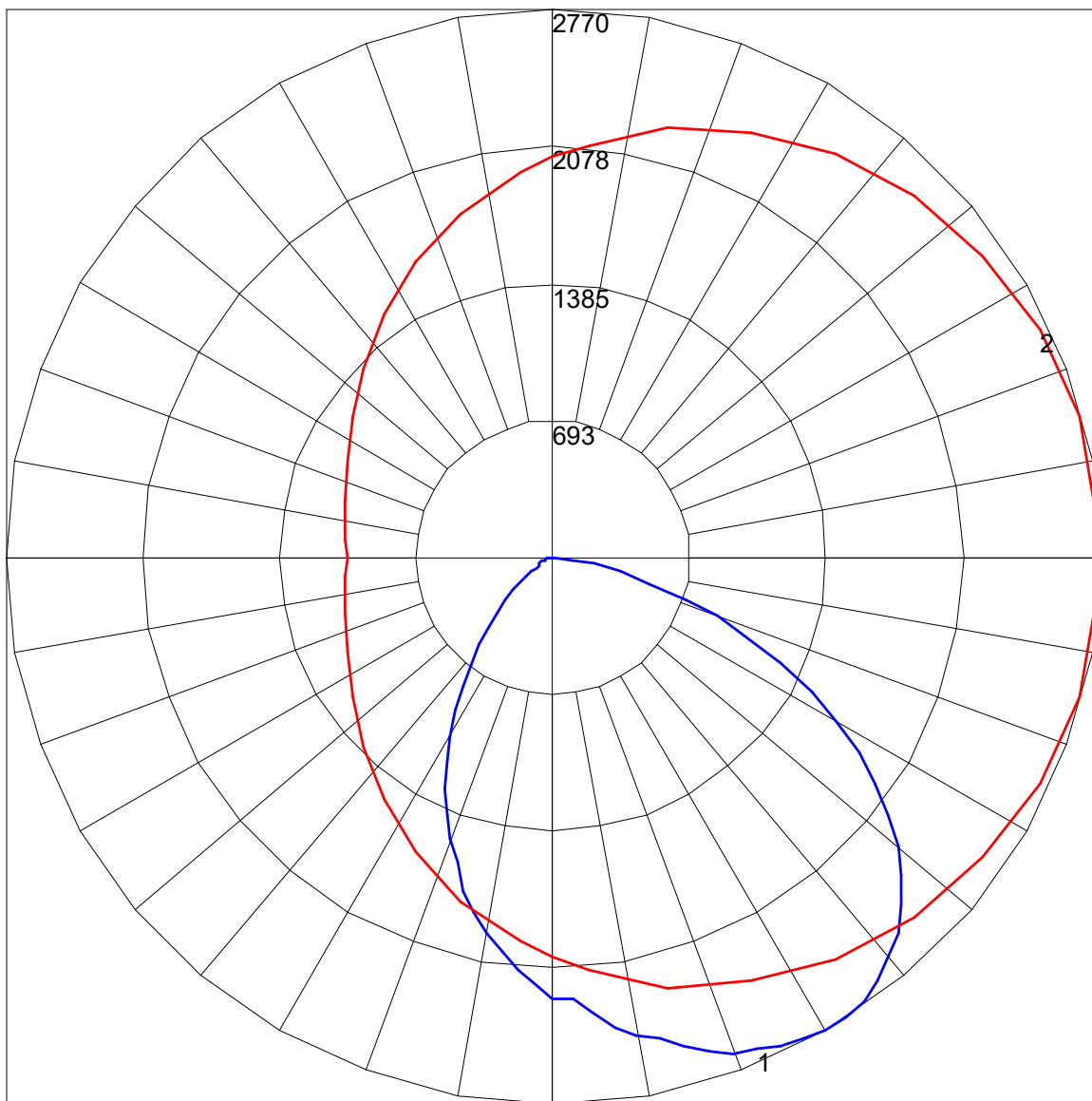
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

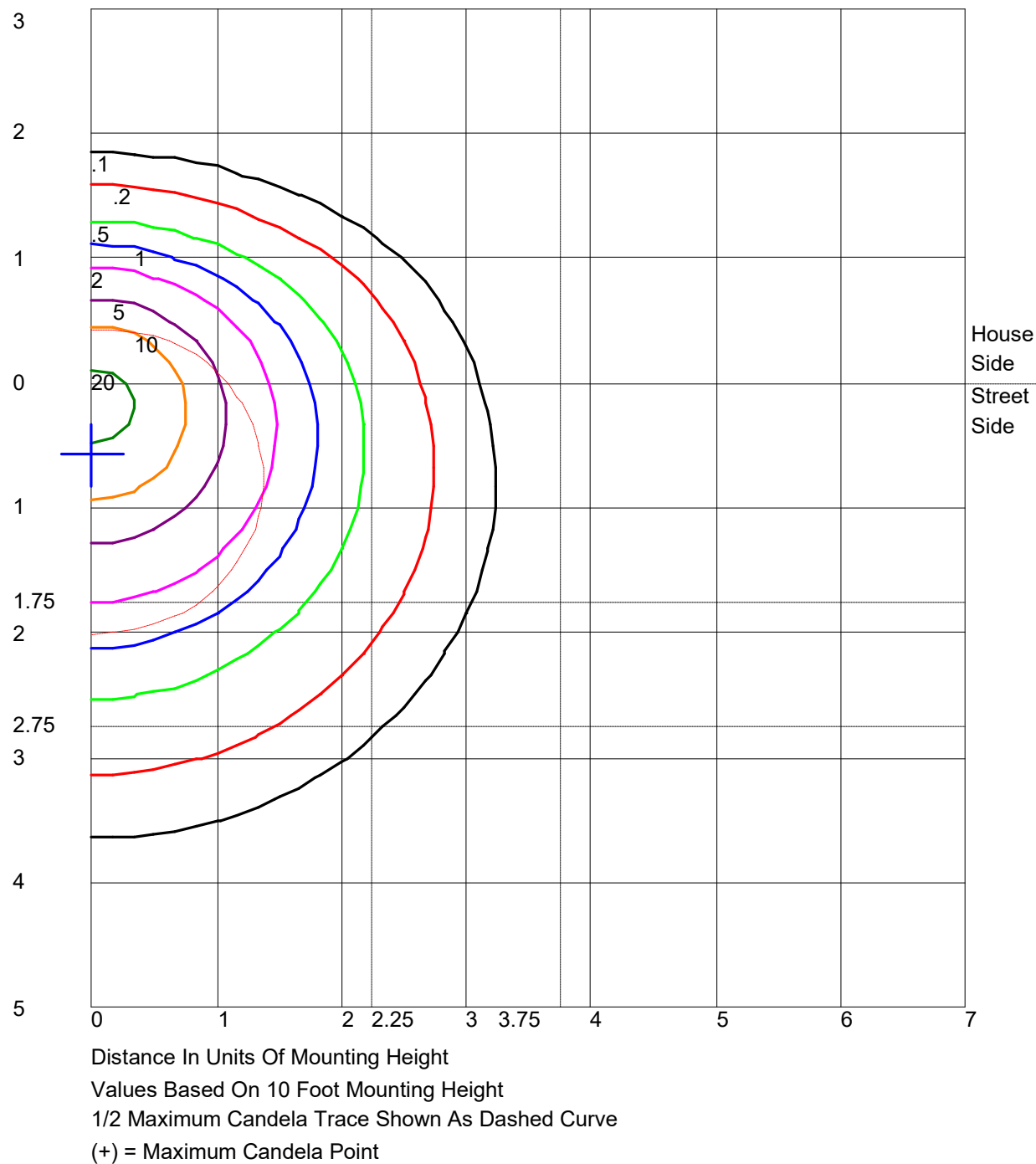
	Lumens	Percent Of Luminaire
Downward Street Side	4180.0	70.0
Downward House Side	1790.3	30.0
Downward Total	5970.3	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	5970.3	100.0

POLAR GRAPH

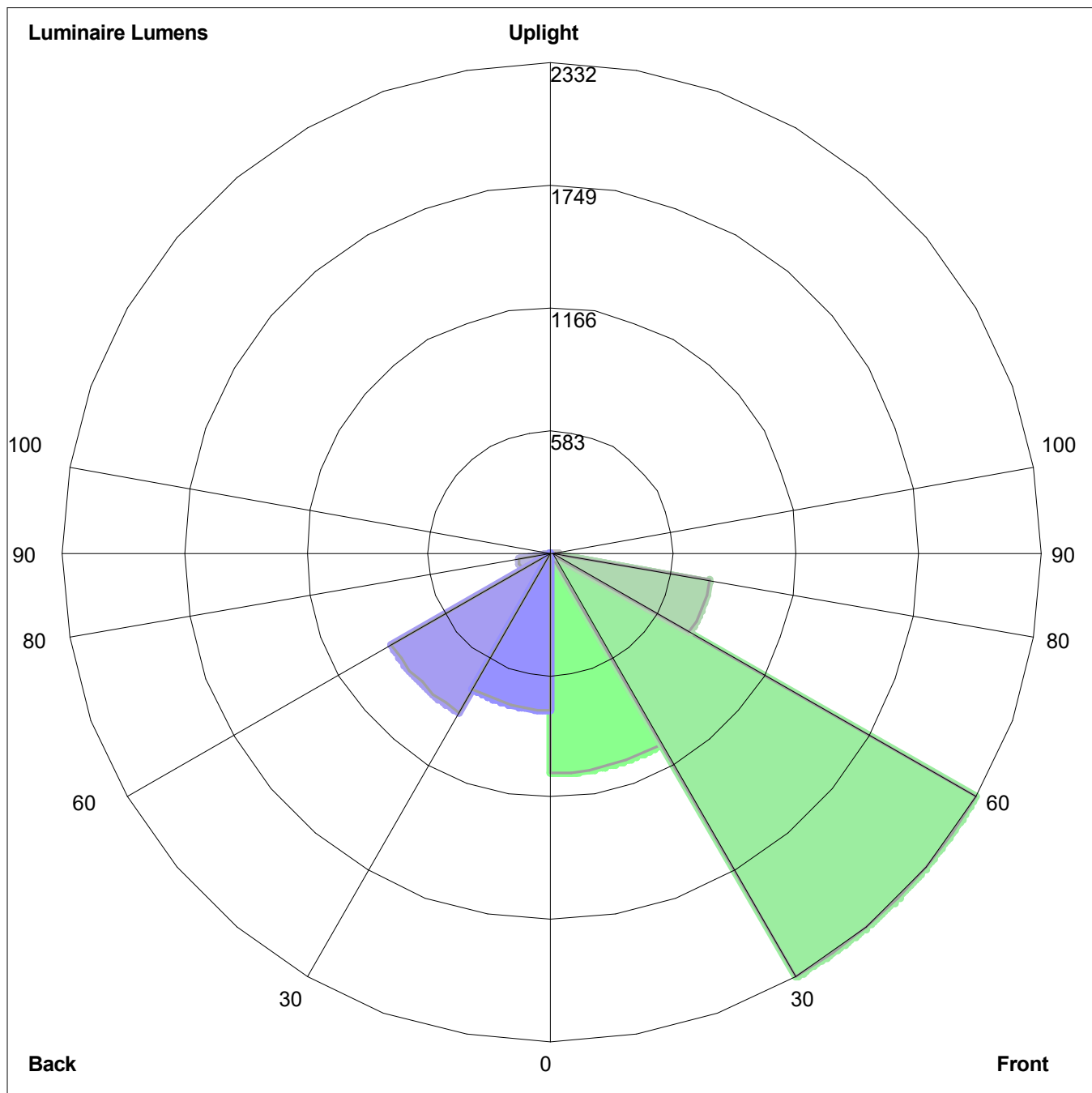


Maximum Candela = 2770 Located At Horizontal Angle = 0, Vertical Angle = 30
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (30) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1051.4, Medium=2331.6, High=763.2, Very High=33.9
Back: Low=748.1, Medium=876.0, High=158.1, Very High=8.2
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G1