



IES ROAD REPORT

PHOTOMETRIC FILENAME : SMW-LED-10L-FT-UNV-DIM-30.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11741

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 5/7/2020

[TEST DATE] 04/22/20

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] SMW-LED-10L-FT-UNV-DIM-30

[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.

[OTHER] TEST PROCEDURE: IESNA LM-79-08

CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9616
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	78
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	4127
Maximum Candela Angle	42.5H 70V
Maximum Candela (<90 Degrees Vertical)	4127
Maximum Candela Angle (<90 Degrees Vertical)	42.5H 70V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1079 (11.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	918.8	N.A.	9.6
FM - Front-Medium (30-60)	2954.4	N.A.	30.7
FH - Front-High (60-80)	2448.3	N.A.	25.5
FVH - Front-Very High (80-90)	113.4	N.A.	1.2
BL - Back-Low (0-30)	799.5	N.A.	8.3
BM - Back-Medium (30-60)	1719.2	N.A.	17.9
BH - Back-High (60-80)	635.7	N.A.	6.6
BVH - Back-Very High (80-90)	26.3	N.A.	0.3
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	9615.6	N.A.	100.0
BUG Rating	B2-U0-G2		

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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	1972	1972	1972	1972	1972	1972	1972	1972	1972	1972
2.5	1929	1930	1945	1961	1985	1992	1996	1999	2015	2017
5.0	1957	1956	1971	1986	2009	2014	2019	2018	2030	2029
7.5	1987	1985	1999	2013	2034	2038	2043	2040	2049	2045
10.0	2017	2014	2028	2042	2061	2064	2068	2063	2071	2063
12.5	2049	2046	2059	2073	2092	2097	2099	2094	2095	2085
15.0	2082	2079	2092	2106	2125	2129	2131	2124	2124	2109
17.5	2115	2112	2125	2141	2161	2165	2168	2159	2156	2139
20.0	2148	2147	2162	2177	2199	2205	2208	2197	2191	2171
22.5	2178	2177	2194	2216	2242	2248	2250	2240	2231	2206
25.0	2201	2200	2222	2250	2283	2292	2296	2286	2274	2245
27.5	2216	2216	2246	2283	2324	2339	2346	2336	2323	2286
30.0	2223	2225	2260	2310	2365	2387	2395	2388	2371	2328
32.5	2227	2228	2268	2330	2404	2433	2443	2439	2416	2369
35.0	2225	2226	2273	2349	2440	2480	2493	2490	2462	2406
37.5	2222	2224	2277	2367	2480	2531	2545	2547	2513	2445
40.0	2214	2218	2279	2390	2524	2587	2608	2608	2564	2484
42.5	2204	2210	2282	2419	2577	2657	2673	2675	2617	2518
45.0	2191	2198	2286	2450	2638	2730	2750	2744	2666	2550
47.5	2177	2186	2290	2485	2710	2815	2835	2817	2716	2583
50.0	2172	2183	2300	2525	2784	2908	2928	2896	2769	2614
52.5	2179	2191	2320	2573	2866	3005	3028	2982	2828	2650
55.0	2205	2218	2356	2635	2958	3111	3133	3073	2898	2699
57.5	2259	2270	2412	2710	3057	3212	3230	3151	2966	2762
60.0	2337	2347	2489	2790	3147	3284	3296	3188	2998	2824
62.5	2445	2447	2575	2866	3201	3324	3326	3171	2944	2838
65.0	2567	2563	2672	2937	3249	3388	3386	3169	2792	2699
67.5	2710	2703	2785	3049	3415	3661	3676	3323	2629	2292
70.0	2445	2468	2775	3266	3913	4127	4091	3522	2523	1906
72.5	1744	1789	2259	3217	4054	3839	3653	3056	2298	1980
75.0	1498	1512	1765	2373	3033	2703	2571	2275	1489	1363
77.5	730	746	997	1597	2039	2012	1980	1459	663	596
80.0	226	240	346	648	967	1079	1057	860	387	288
82.5	127	133	182	330	510	603	626	583	205	154
85.0	57	58	85	150	244	300	324	334	89	75
87.5	9	8	16	30	49	80	93	90	31	28
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	1972	1972	1972	1972	1972	1972	1972	1972	1972	1972
2.5	2024	2035	2023	2011	1998	1989	1968	1953	1935	1915
5.0	2032	2042	2027	2011	1995	1982	1957	1939	1919	1897
7.5	2044	2052	2035	2015	1995	1976	1949	1928	1904	1880
10.0	2059	2064	2045	2020	1995	1973	1940	1915	1888	1862
12.5	2076	2080	2059	2029	2000	1972	1933	1902	1870	1840
15.0	2097	2099	2074	2042	2006	1972	1926	1887	1849	1814
17.5	2121	2121	2096	2055	2015	1973	1919	1870	1824	1780
20.0	2148	2147	2118	2072	2025	1974	1910	1849	1792	1741
22.5	2180	2176	2144	2091	2036	1973	1895	1819	1749	1692
25.0	2213	2207	2171	2111	2045	1969	1875	1783	1695	1632
27.5	2248	2241	2199	2131	2054	1960	1847	1736	1636	1566

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CANDELA TABULATION - (Cont.)

30.0	2285	2274	2228	2150	2056	1944	1808	1676	1568	1496
32.5	2317	2303	2253	2162	2052	1916	1758	1608	1496	1421
35.0	2347	2332	2277	2171	2041	1880	1695	1536	1424	1351
37.5	2377	2359	2299	2179	2028	1837	1628	1464	1356	1288
40.0	2404	2383	2318	2185	2008	1786	1559	1394	1293	1230
42.5	2428	2405	2333	2186	1980	1731	1487	1330	1235	1171
45.0	2451	2422	2346	2182	1947	1666	1414	1267	1175	1094
47.5	2467	2437	2353	2169	1908	1598	1340	1206	1100	974
50.0	2485	2448	2357	2146	1855	1522	1270	1138	983	821
52.5	2504	2462	2358	2105	1780	1433	1198	1036	826	709
55.0	2533	2480	2354	2045	1683	1330	1115	909	716	653
57.5	2576	2506	2345	1961	1567	1215	1005	794	646	582
60.0	2635	2540	2331	1858	1442	1084	869	695	572	499
62.5	2691	2571	2311	1761	1282	933	743	597	490	449
65.0	2649	2544	2277	1642	1113	807	631	506	423	397
67.5	2299	2321	2149	1469	951	687	536	423	331	241
70.0	1819	1870	1789	1240	784	563	442	287	188	171
72.5	1687	1534	1366	956	625	443	306	172	149	140
75.0	1602	1396	1049	670	457	324	178	134	117	113
77.5	1157	1101	773	416	291	164	128	98	88	83
80.0	588	632	500	259	150	91	80	68	61	58
82.5	227	281	276	159	61	50	46	40	34	24
85.0	95	128	137	55	28	22	19	12	7	3
87.5	31	45	46	13	7	3	1	1	0	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

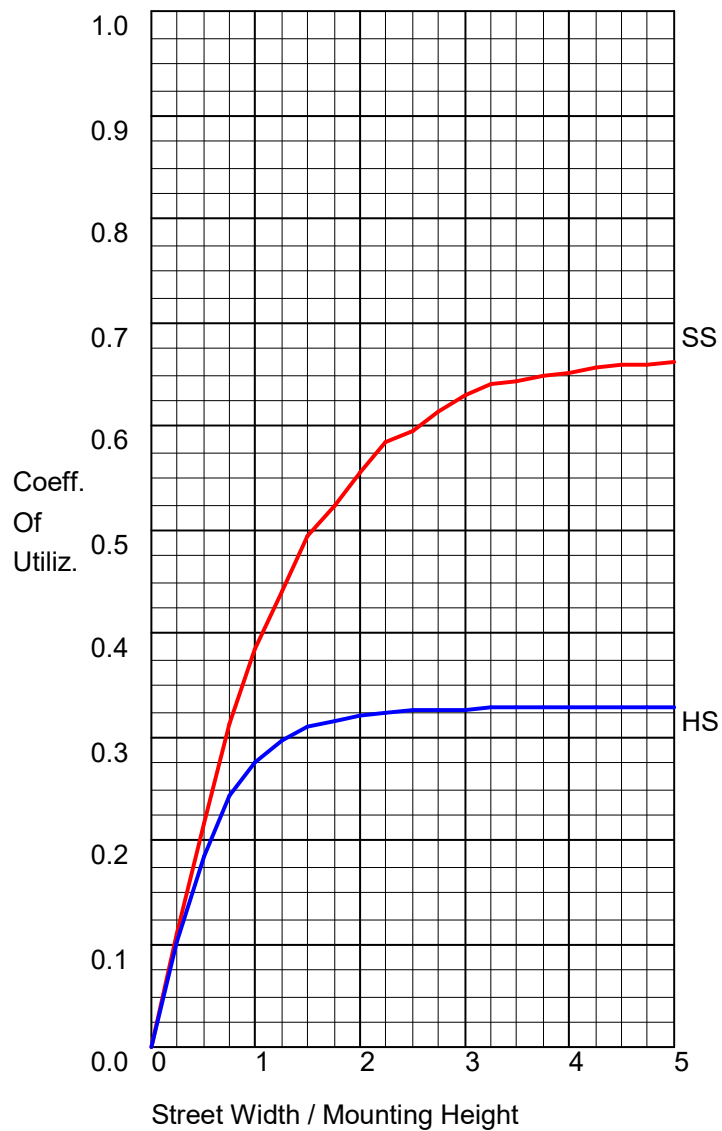
	<u>175.0</u>	<u>180.0</u>
0.0	1972	1972
2.5	1908	1912
5.0	1889	1894
7.5	1872	1876
10.0	1851	1856
12.5	1828	1830
15.0	1800	1801
17.5	1762	1763
20.0	1718	1720
22.5	1666	1665
25.0	1602	1601
27.5	1532	1532
30.0	1460	1460
32.5	1389	1388
35.0	1322	1322
37.5	1261	1261
40.0	1200	1203
42.5	1137	1138
45.0	1046	1039
47.5	898	887
50.0	757	750
52.5	683	680
55.0	636	633
57.5	549	545
60.0	490	489
62.5	444	441
65.0	373	367

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CANDELA TABULATION - (Cont.)

67.5	211	207
70.0	166	166
72.5	137	137
75.0	112	112
77.5	85	85
80.0	58	59
82.5	19	16
85.0	1	1
87.5	0	0
90.0	0	0

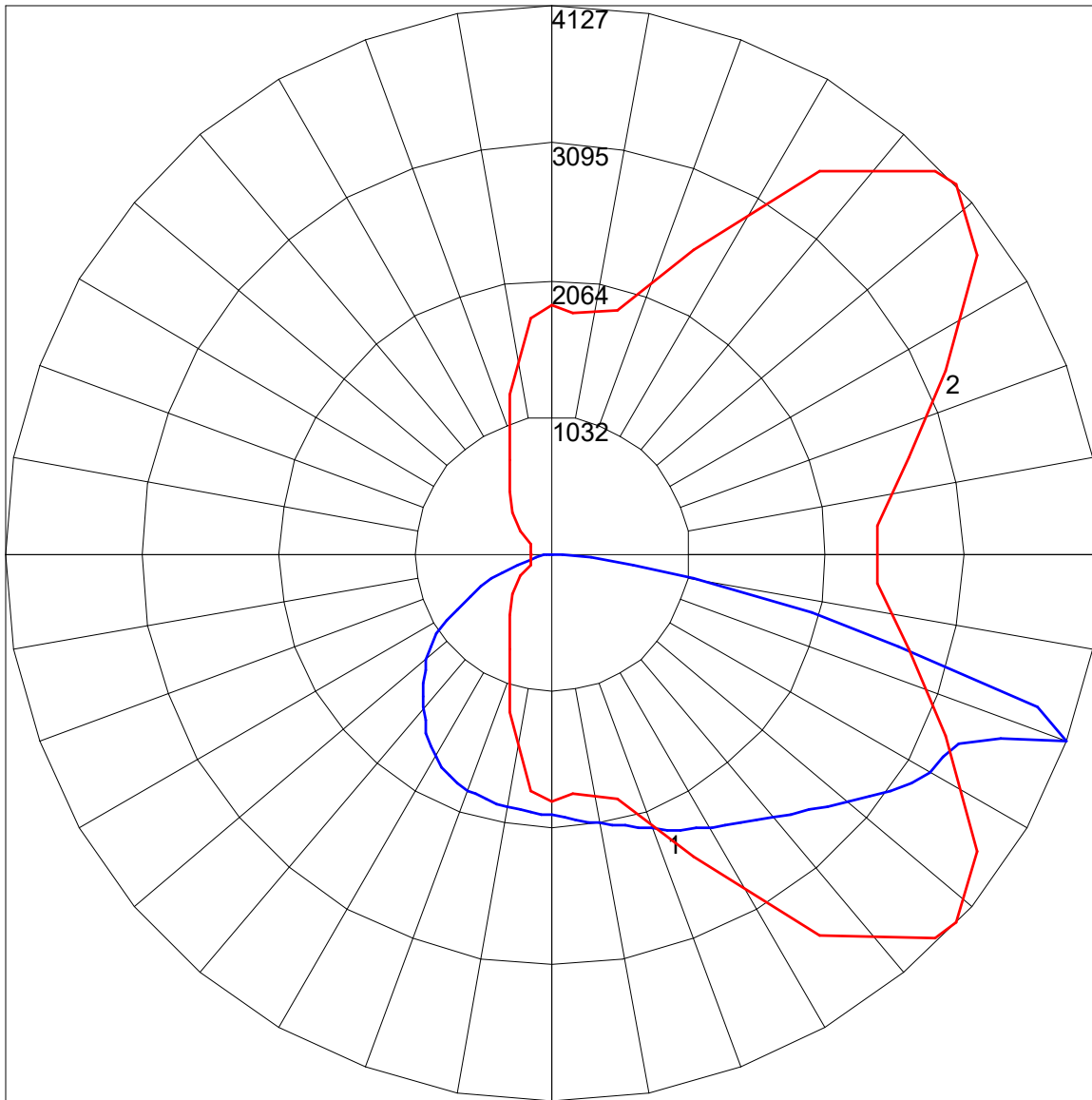
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

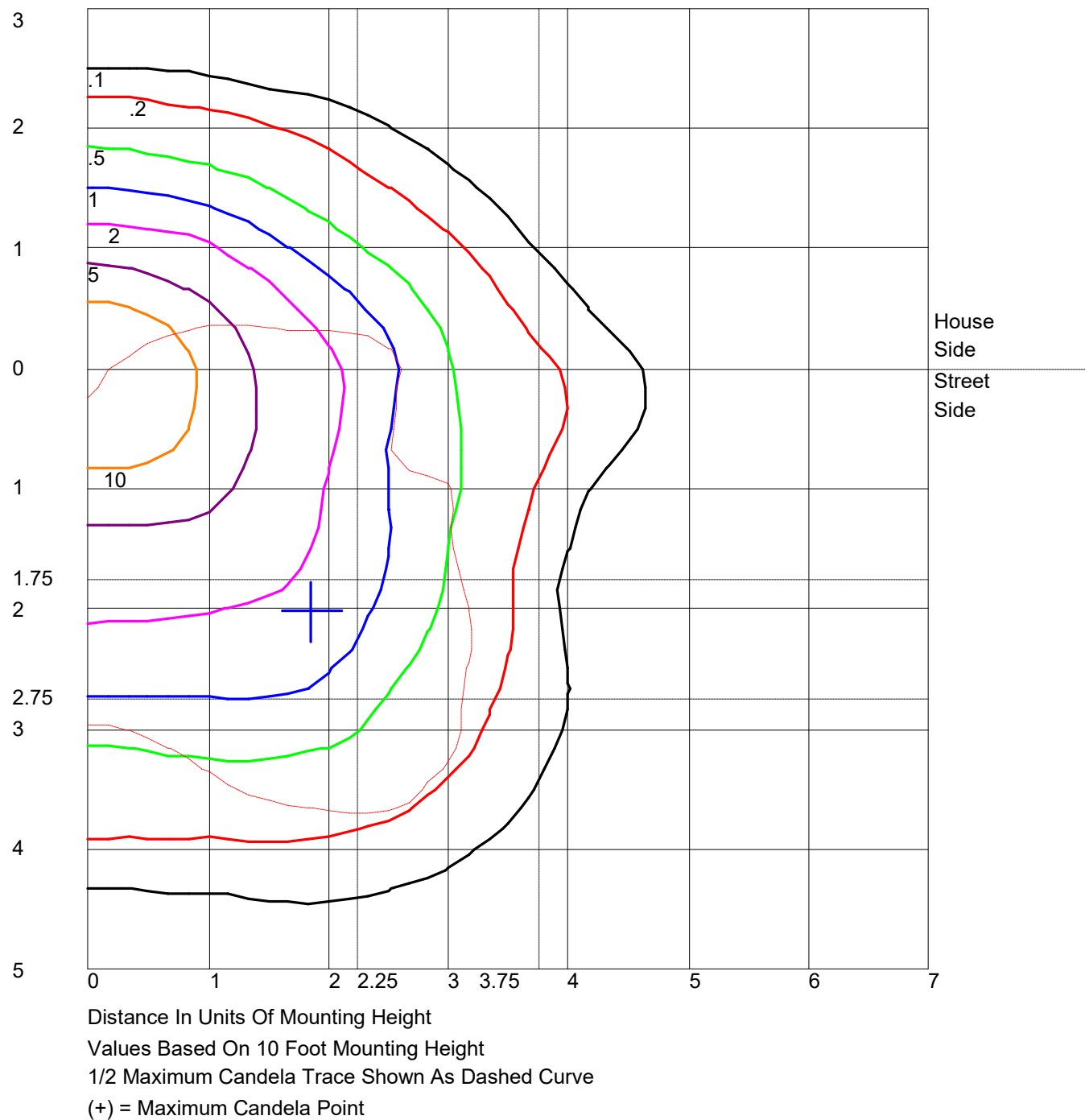
	Lumens	Percent Of Luminaire
Downward Street Side	6434.9	66.9
Downward House Side	3180.7	33.1
Downward Total	9615.6	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	9615.6	100.0

POLAR GRAPH

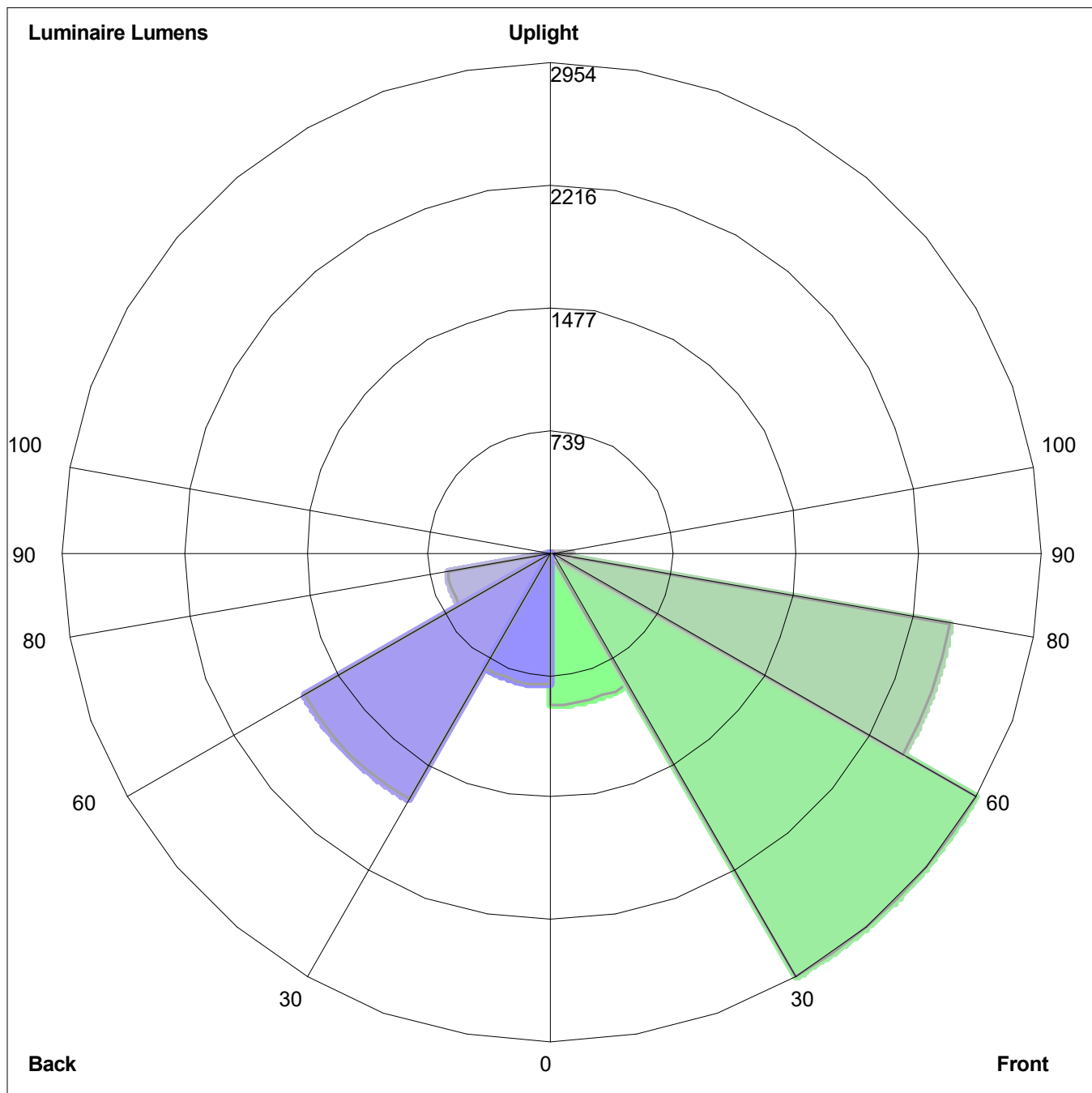


Maximum Candela = 4127 Located At Horizontal Angle = 42.5, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (42.5 - 222.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=918.8, Medium=2954.4, High=2448.3, Very High=113.4
Back: Low=799.5, Medium=1719.2, High=635.7, Very High=26.3
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G2