



IES ROAD REPORT

PHOTOMETRIC FILENAME : SMW-LED-10L-3-UNV-DIM-40.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11649
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 5/7/2020
[TEST DATE] 03/27/20
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] SMW-LED-10L-3-UNV-DIM-40
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER] TEST PROCEDURE: IESNA LM-79-08

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Medium
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10011
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	78
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	4863
Maximum Candela Angle	57.5H 72.5V
Maximum Candela (<90 Degrees Vertical)	4863
Maximum Candela Angle (<90 Degrees Vertical)	57.5H 72.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	2468 (24.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	956.6	N.A.	9.6
FM - Front-Medium (30-60)	2905.7	N.A.	29.0
FH - Front-High (60-80)	1985.4	N.A.	19.8
FVH - Front-Very High (80-90)	120.3	N.A.	1.2
BL - Back-Low (0-30)	877.8	N.A.	8.8
BM - Back-Medium (30-60)	2084.7	N.A.	20.8
BH - Back-High (60-80)	1038.3	N.A.	10.4
BVH - Back-Very High (80-90)	41.9	N.A.	0.4
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	10010.7	N.A.	100.0
BUG Rating	B3-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>55.0</u>	<u>57.5</u>	<u>65.0</u>	<u>75.0</u>
0.0	2136	2136	2136	2136	2136	2136	2136	2136	2136	2136
2.5	2092	2094	2113	2122	2139	2154	2159	2163	2176	2183
5.0	2115	2116	2134	2143	2158	2172	2173	2176	2187	2191
7.5	2138	2140	2157	2166	2179	2189	2189	2191	2198	2200
10.0	2163	2165	2181	2190	2199	2209	2205	2206	2211	2210
12.5	2187	2189	2206	2213	2219	2228	2221	2223	2226	2220
15.0	2211	2213	2229	2236	2241	2248	2239	2240	2242	2235
17.5	2233	2235	2252	2257	2263	2268	2259	2261	2260	2252
20.0	2250	2253	2270	2275	2283	2292	2282	2283	2283	2272
22.5	2264	2265	2283	2291	2301	2313	2306	2308	2309	2297
25.0	2267	2270	2291	2303	2318	2337	2333	2337	2340	2327
27.5	2265	2268	2293	2310	2331	2361	2367	2370	2375	2362
30.0	2259	2263	2291	2313	2345	2384	2400	2405	2416	2401
32.5	2251	2254	2286	2316	2359	2410	2437	2445	2459	2445
35.0	2239	2243	2281	2318	2373	2442	2479	2492	2508	2495
37.5	2228	2232	2275	2320	2391	2476	2530	2544	2567	2555
40.0	2214	2218	2265	2322	2410	2517	2590	2608	2633	2620
42.5	2199	2202	2254	2323	2430	2564	2660	2680	2709	2692
45.0	2166	2169	2233	2319	2450	2612	2735	2761	2797	2772
47.5	2117	2118	2191	2305	2466	2661	2815	2847	2892	2866
50.0	2032	2040	2126	2275	2479	2705	2898	2938	2991	2960
52.5	1933	1944	2040	2225	2487	2751	2966	3013	3089	3059
55.0	1833	1839	1947	2159	2492	2799	3012	3061	3169	3163
57.5	1719	1726	1840	2081	2488	2854	3024	3068	3204	3271
60.0	1559	1566	1672	1949	2463	2934	3016	3040	3180	3376
62.5	1347	1353	1444	1703	2341	3080	3061	3036	3104	3444
65.0	1131	1136	1207	1380	2009	3240	3278	3155	3003	3455
67.5	802	789	903	1091	1452	3069	3757	3497	2876	3377
70.0	513	508	555	730	1000	2353	4494	4229	2781	3136
72.5	267	280	330	493	662	1652	4848	4863	2722	2603
75.0	180	180	207	289	432	1097	3675	4076	2356	1798
77.5	124	125	139	183	277	688	1906	2003	2109	1048
80.0	88	89	98	125	190	410	822	880	1970	663
82.5	56	53	50	60	112	252	395	494	1274	322
85.0	11	11	11	15	28	81	216	334	631	122
87.5	1	1	1	1	1	2	22	57	132	40
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	2136	2136	2136	2136	2136	2136	2136	2136	2136	2136
2.5	2191	2178	2183	2179	2171	2149	2138	2123	2107	2087
5.0	2196	2182	2185	2178	2167	2144	2130	2115	2098	2076
7.5	2200	2185	2186	2177	2164	2139	2123	2107	2089	2068
10.0	2208	2190	2189	2176	2161	2135	2118	2101	2082	2061
12.5	2214	2196	2193	2177	2160	2131	2113	2095	2075	2054
15.0	2224	2204	2200	2179	2160	2129	2108	2088	2066	2044
17.5	2237	2214	2206	2184	2163	2128	2103	2079	2054	2028
20.0	2253	2228	2217	2192	2166	2127	2097	2067	2034	2003
22.5	2274	2245	2232	2203	2173	2126	2089	2047	2004	1965
25.0	2300	2267	2252	2218	2181	2124	2074	2018	1962	1914
27.5	2329	2295	2277	2236	2190	2120	2054	1978	1909	1853

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CANDELA TABULATION - (Cont.)

30.0	2364	2326	2305	2256	2198	2112	2023	1927	1846	1783
32.5	2403	2362	2335	2276	2205	2094	1981	1868	1777	1712
35.0	2448	2403	2369	2298	2208	2067	1930	1802	1708	1639
37.5	2501	2448	2409	2322	2207	2031	1868	1733	1642	1577
40.0	2557	2500	2451	2347	2201	1987	1806	1669	1581	1523
42.5	2626	2558	2499	2374	2188	1936	1744	1612	1529	1476
45.0	2697	2619	2551	2398	2164	1879	1680	1559	1484	1433
47.5	2770	2682	2603	2420	2130	1815	1626	1512	1440	1387
50.0	2848	2746	2654	2431	2084	1752	1573	1466	1394	1342
52.5	2935	2818	2708	2425	2011	1680	1518	1416	1345	1291
55.0	3033	2900	2764	2399	1918	1595	1455	1364	1290	1242
57.5	3155	3002	2824	2343	1812	1493	1373	1302	1238	1199
60.0	3319	3134	2900	2276	1702	1388	1279	1230	1186	1156
62.5	3544	3328	2998	2211	1583	1268	1170	1153	1118	1099
65.0	3773	3541	3132	2131	1436	1141	1049	1055	1039	1027
67.5	3941	3727	3234	1990	1264	1025	926	942	909	697
70.0	3841	3657	3132	1746	1082	883	818	760	604	379
72.5	3237	2983	2587	1440	862	702	664	507	349	266
75.0	2869	2363	1813	1065	677	538	411	335	249	140
77.5	3356	2595	1339	657	499	324	287	220	142	87
80.0	2468	1857	814	397	309	184	209	144	70	57
82.5	736	504	348	239	106	89	102	58	34	29
85.0	184	162	140	80	49	40	30	14	7	4
87.5	50	45	46	20	10	5	2	1	1	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles **Horizontal Angles**

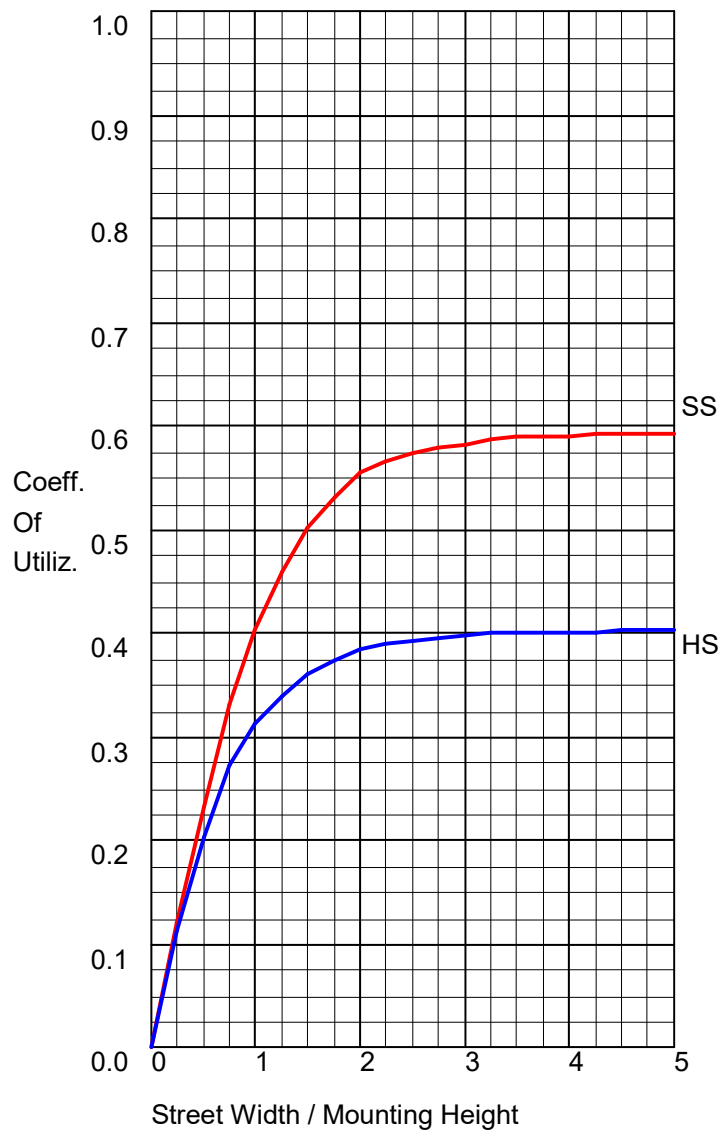
	<u>175.0</u>	<u>180.0</u>
0.0	2136	2136
2.5	2059	2075
5.0	2049	2064
7.5	2042	2054
10.0	2036	2047
12.5	2028	2038
15.0	2018	2027
17.5	2002	2008
20.0	1974	1980
22.5	1932	1938
25.0	1878	1877
27.5	1811	1810
30.0	1739	1736
32.5	1667	1663
35.0	1600	1594
37.5	1540	1534
40.0	1489	1485
42.5	1444	1441
45.0	1401	1399
47.5	1357	1357
50.0	1309	1312
52.5	1256	1257
55.0	1210	1214
57.5	1175	1177
60.0	1140	1139
62.5	1090	1086
65.0	988	972

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CANDELA TABULATION - (Cont.)

67.5	597	580
70.0	333	328
72.5	240	240
75.0	123	123
77.5	83	84
80.0	55	55
82.5	27	28
85.0	3	3
87.5	0	0
90.0	0	0

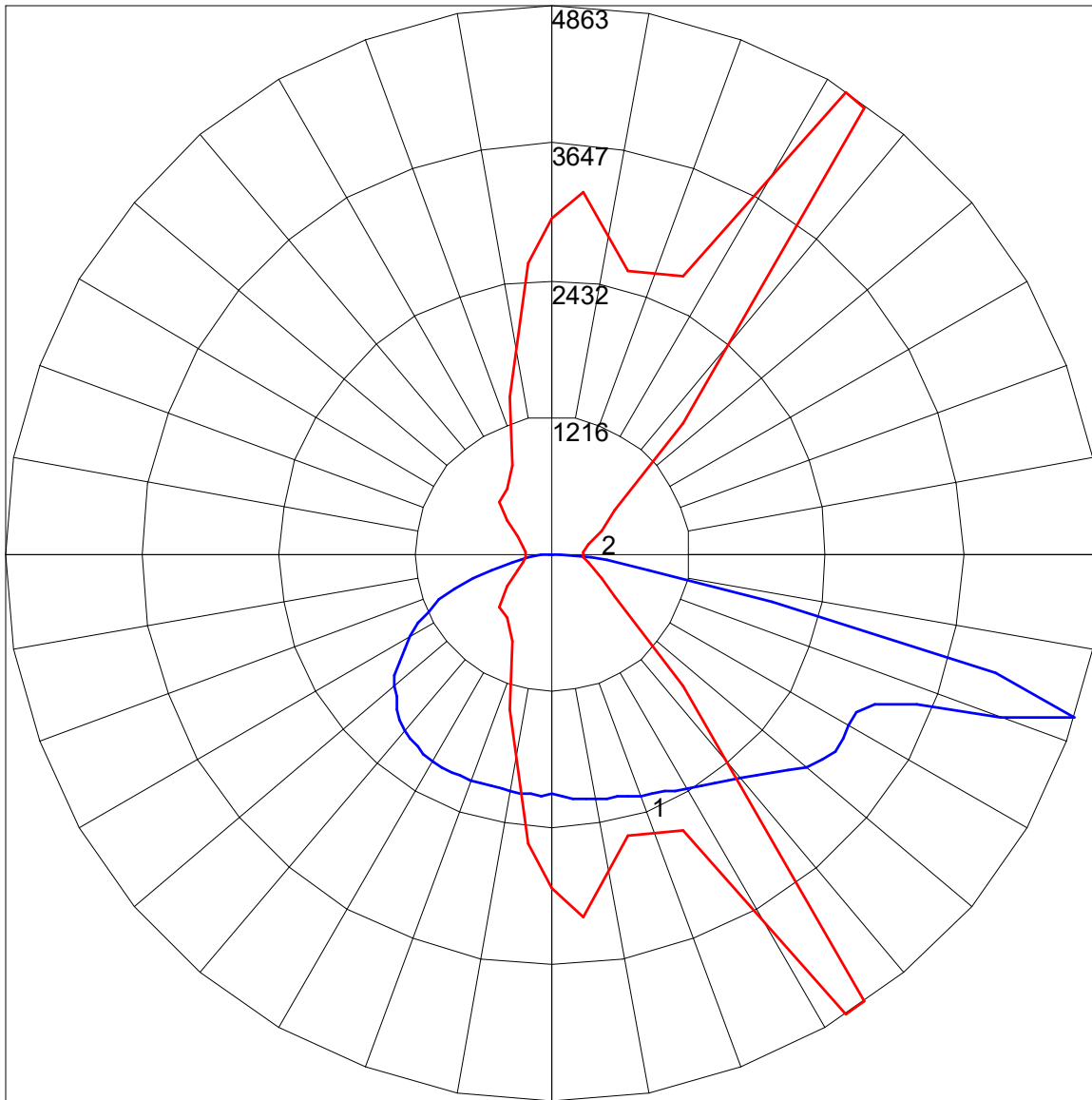
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

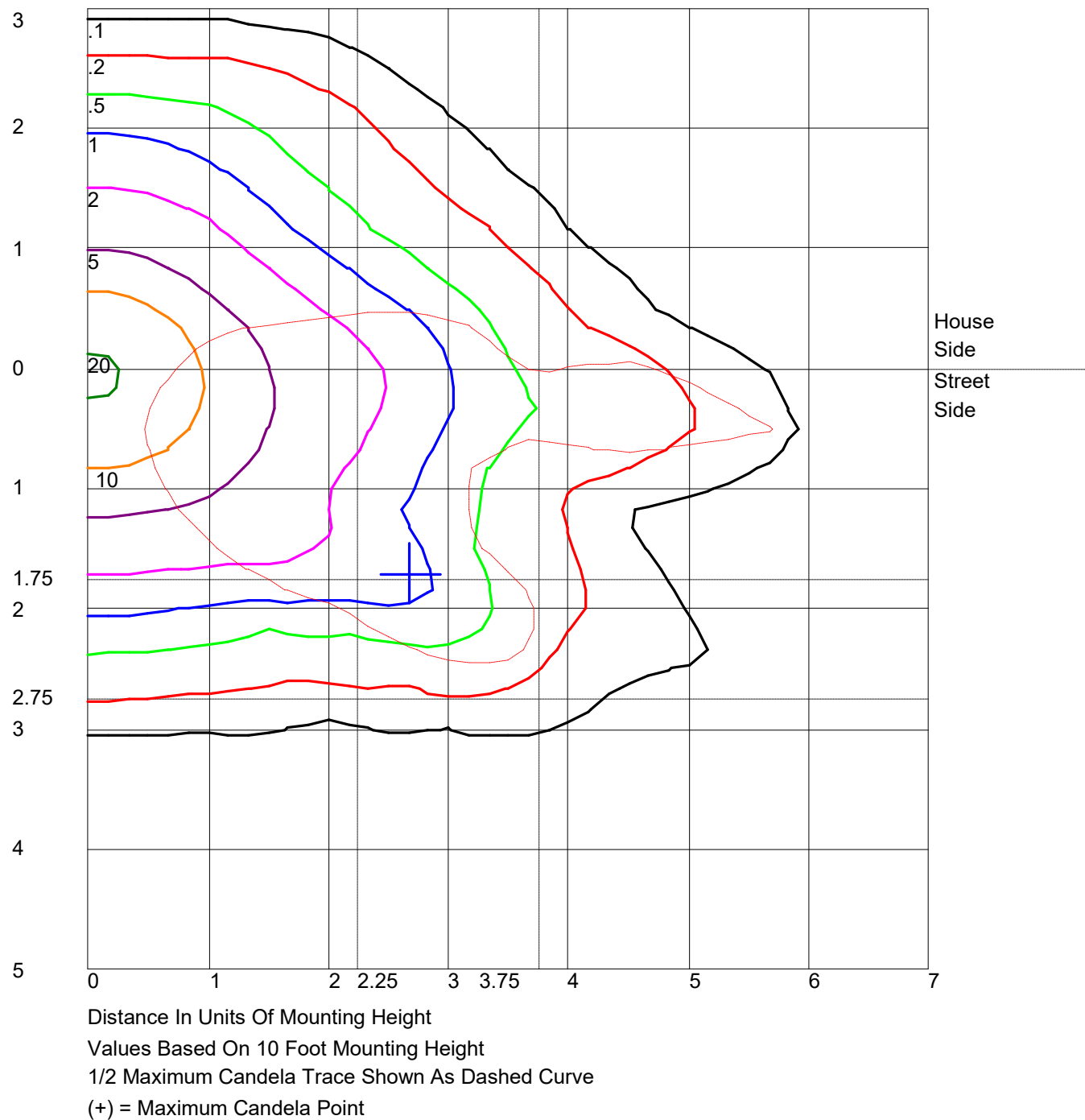
	Lumens	Percent Of Luminaire
Downward Street Side	5968.1	59.6
Downward House Side	4042.7	40.4
Downward Total	10010.8	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	10010.8	100.0

POLAR GRAPH

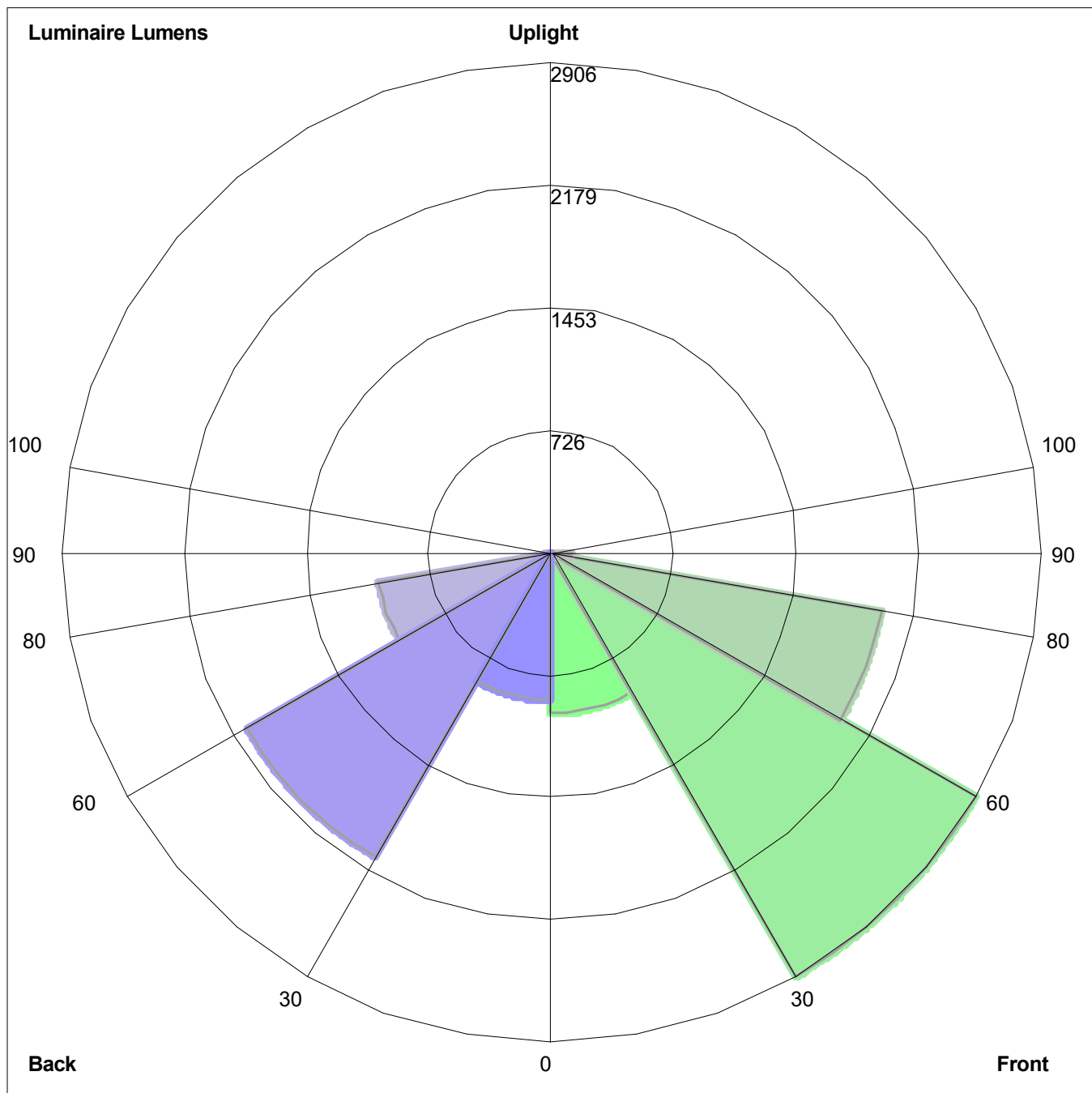


Maximum Candela = 4863 Located At Horizontal Angle = 57.5, Vertical Angle = 72.5
1 - Vertical Plane Through Horizontal Angles (57.5 - 237.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (72.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=956.6, Medium=2905.7, High=1985.4, Very High=120.3
Back: Low=877.8, Medium=2084.7, High=1038.3, Very High=41.9
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G3