



IES ROAD REPORT

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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11550

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 5/7/2020

[TEST DATE] 01/30/20

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] SMW-LED-10L-FT-UNV-DIM-40

[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	9908
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	78
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	4150
Maximum Candela Angle	42.5H 72.5V
Maximum Candela (<90 Degrees Vertical)	4150
Maximum Candela Angle (<90 Degrees Vertical)	42.5H 72.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	2086 (21.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	930.6	N.A.	9.4
FM - Front-Medium (30-60)	2999.8	N.A.	30.3
FH - Front-High (60-80)	2717.9	N.A.	27.4
FVH - Front-Very High (80-90)	220.6	N.A.	2.2
BL - Back-Low (0-30)	789.6	N.A.	8.0
BM - Back-Medium (30-60)	1641.2	N.A.	16.6
BH - Back-High (60-80)	585.0	N.A.	5.9
BVH - Back-Very High (80-90)	23.2	N.A.	0.2
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	9907.9	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	1979	1979	1979	1979	1979	1979	1979	1979	1979	1979
2.5	1994	1987	1983	1985	1987	1988	1989	1995	1998	2004
5.0	2026	2018	2013	2014	2012	2011	2013	2015	2016	2017
7.5	2060	2052	2046	2045	2041	2037	2040	2040	2036	2034
10.0	2097	2088	2082	2079	2073	2066	2071	2066	2060	2054
12.5	2134	2125	2119	2115	2108	2098	2104	2096	2086	2077
15.0	2173	2166	2158	2153	2146	2134	2136	2130	2117	2103
17.5	2211	2204	2199	2195	2188	2173	2172	2166	2150	2132
20.0	2249	2243	2238	2237	2230	2215	2214	2206	2187	2165
22.5	2285	2279	2279	2280	2275	2264	2259	2250	2227	2201
25.0	2318	2312	2314	2320	2322	2315	2308	2298	2273	2240
27.5	2343	2338	2345	2357	2367	2365	2358	2347	2320	2284
30.0	2362	2358	2369	2389	2410	2411	2410	2398	2366	2324
32.5	2371	2368	2386	2417	2451	2458	2465	2449	2415	2363
35.0	2373	2371	2397	2442	2490	2506	2516	2501	2461	2401
37.5	2368	2367	2404	2465	2533	2563	2569	2558	2508	2437
40.0	2359	2361	2406	2488	2581	2626	2629	2623	2562	2473
42.5	2347	2351	2409	2514	2636	2693	2702	2689	2611	2509
45.0	2336	2342	2414	2547	2699	2766	2777	2756	2659	2539
47.5	2323	2332	2423	2586	2765	2843	2858	2825	2703	2567
50.0	2311	2324	2434	2627	2838	2930	2948	2902	2752	2595
52.5	2308	2315	2450	2669	2920	3024	3042	2979	2812	2627
55.0	2322	2324	2462	2721	3008	3127	3146	3068	2879	2669
57.5	2362	2374	2502	2785	3099	3234	3251	3161	2951	2722
60.0	2427	2434	2566	2862	3183	3339	3332	3243	3013	2782
62.5	2525	2507	2647	2932	3269	3391	3383	3272	3036	2830
65.0	2627	2603	2731	2994	3328	3421	3389	3254	2961	2793
67.5	2727	2690	2820	3034	3358	3469	3448	3257	2787	2530
70.0	2819	2794	2928	3150	3509	3704	3754	3418	2610	2028
72.5	2630	2660	2932	3362	3990	4150	4096	3551	2516	1929
75.0	1896	1953	2460	3389	4060	3867	3649	2945	2103	1788
77.5	1539	1594	1872	2554	3083	2688	2568	2114	1111	915
80.0	899	968	1263	1808	2086	1942	1923	1263	558	406
82.5	263	283	411	733	1012	1006	998	804	355	200
85.0	142	144	200	359	507	572	578	528	185	96
87.5	68	69	94	150	237	282	298	271	71	45
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	1979	1979	1979	1979	1979	1979	1979	1979	1979	1979
2.5	2007	2005	2007	2003	1995	1989	1971	1963	1947	1941
5.0	2015	2011	2011	2002	1990	1979	1957	1946	1927	1918
7.5	2027	2020	2018	2004	1986	1970	1945	1928	1906	1895
10.0	2042	2033	2028	2009	1986	1964	1933	1912	1884	1871
12.5	2060	2048	2041	2017	1989	1961	1923	1895	1860	1843
15.0	2082	2067	2059	2029	1994	1958	1911	1876	1832	1810
17.5	2106	2091	2078	2043	2001	1956	1898	1852	1801	1768
20.0	2134	2117	2100	2058	2008	1953	1882	1822	1762	1718
22.5	2164	2145	2124	2075	2015	1946	1860	1784	1710	1656
25.0	2199	2175	2150	2091	2019	1935	1832	1738	1650	1588
27.5	2234	2206	2178	2107	2021	1918	1793	1683	1583	1515

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CANDELA TABULATION - (Cont.)

30.0	2267	2236	2203	2120	2018	1893	1747	1619	1511	1443
32.5	2298	2265	2227	2130	2008	1859	1690	1549	1439	1372
35.0	2327	2291	2248	2136	1992	1816	1625	1478	1369	1304
37.5	2353	2317	2266	2139	1969	1767	1558	1407	1304	1239
40.0	2377	2339	2282	2140	1943	1711	1488	1340	1244	1179
42.5	2399	2358	2294	2136	1913	1652	1418	1276	1185	1113
45.0	2418	2373	2303	2125	1876	1588	1345	1215	1111	993
47.5	2435	2383	2305	2107	1832	1519	1276	1146	990	838
50.0	2450	2392	2306	2080	1776	1445	1210	1041	844	715
52.5	2466	2396	2300	2037	1700	1360	1129	923	728	650
55.0	2485	2402	2288	1973	1602	1260	1026	807	650	590
57.5	2516	2416	2269	1882	1483	1143	903	710	577	506
60.0	2560	2434	2244	1784	1354	1001	783	618	498	455
62.5	2611	2452	2217	1683	1212	859	666	527	432	407
65.0	2622	2447	2185	1566	1054	744	564	442	344	253
67.5	2431	2333	2081	1401	898	635	470	324	200	171
70.0	1920	1925	1810	1196	743	513	345	195	153	141
72.5	1615	1493	1384	944	589	391	218	139	119	114
75.0	1620	1350	1056	640	410	247	146	105	91	85
77.5	1293	1151	823	409	233	123	96	75	64	60
80.0	724	738	571	254	116	67	57	47	39	30
82.5	307	343	304	129	48	35	29	19	10	5
85.0	121	150	142	63	21	13	7	4	2	0
87.5	41	50	44	11	5	2	2	2	1	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

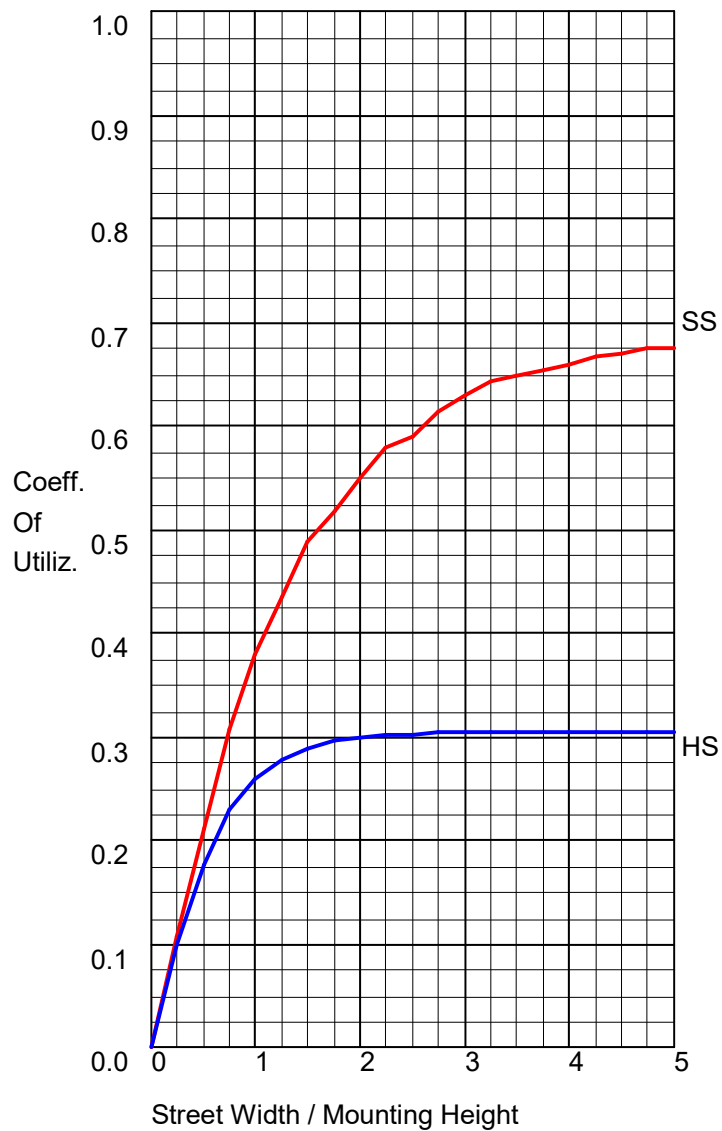
	<u>175.0</u>	<u>180.0</u>
0.0	1979	1979
2.5	1953	1945
5.0	1930	1922
7.5	1904	1897
10.0	1877	1870
12.5	1845	1839
15.0	1808	1802
17.5	1764	1758
20.0	1710	1703
22.5	1646	1638
25.0	1573	1566
27.5	1498	1491
30.0	1424	1417
32.5	1351	1347
35.0	1285	1283
37.5	1224	1223
40.0	1163	1155
42.5	1072	1064
45.0	928	917
47.5	774	765
50.0	683	680
52.5	638	637
55.0	557	552
57.5	488	490
60.0	448	444
62.5	389	384
65.0	223	219

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CANDELA TABULATION - (Cont.)

67.5	165	165
70.0	136	136
72.5	111	111
75.0	84	84
77.5	59	60
80.0	23	20
82.5	3	3
85.0	0	0
87.5	0	0
90.0	0	0

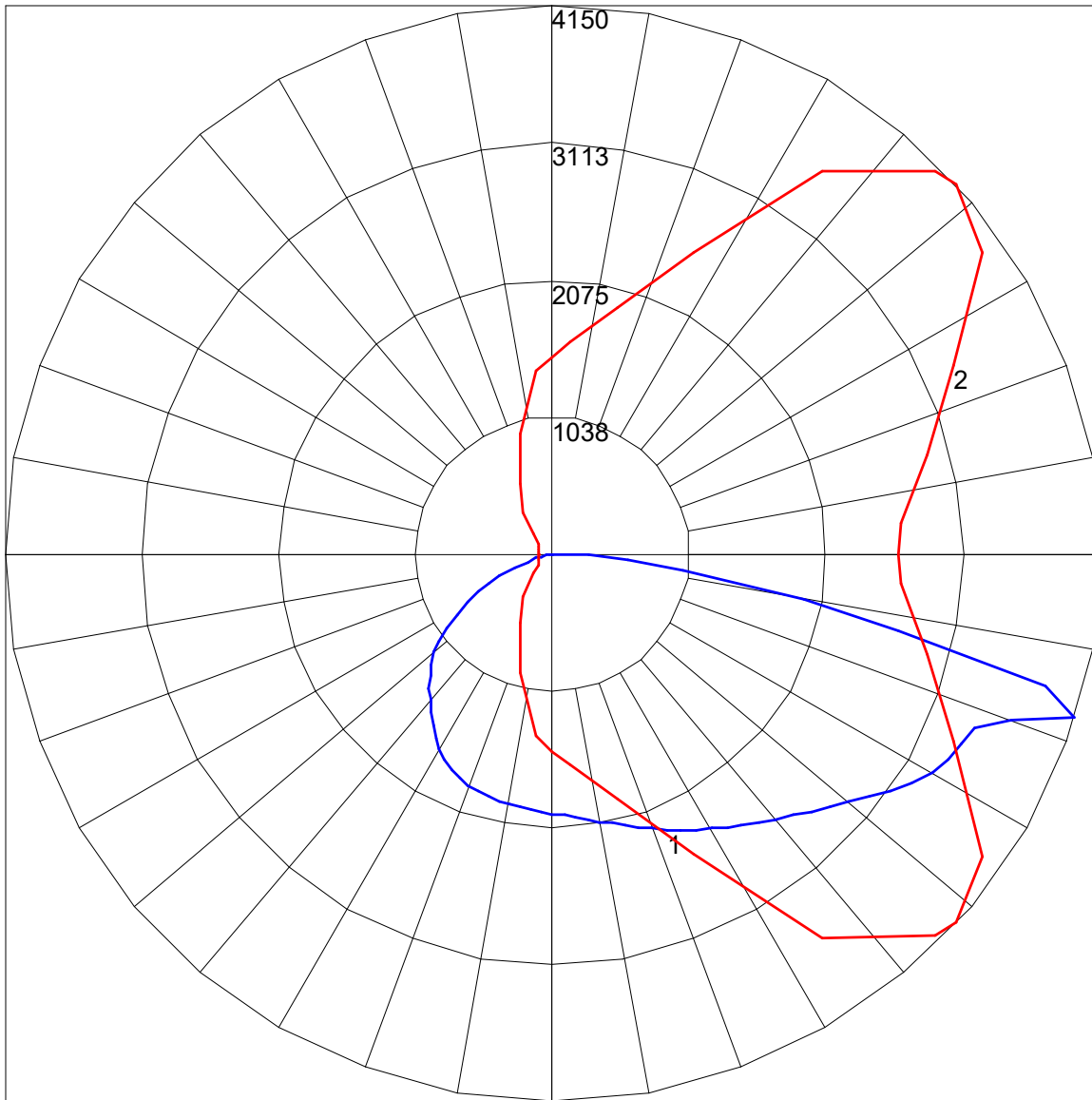
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

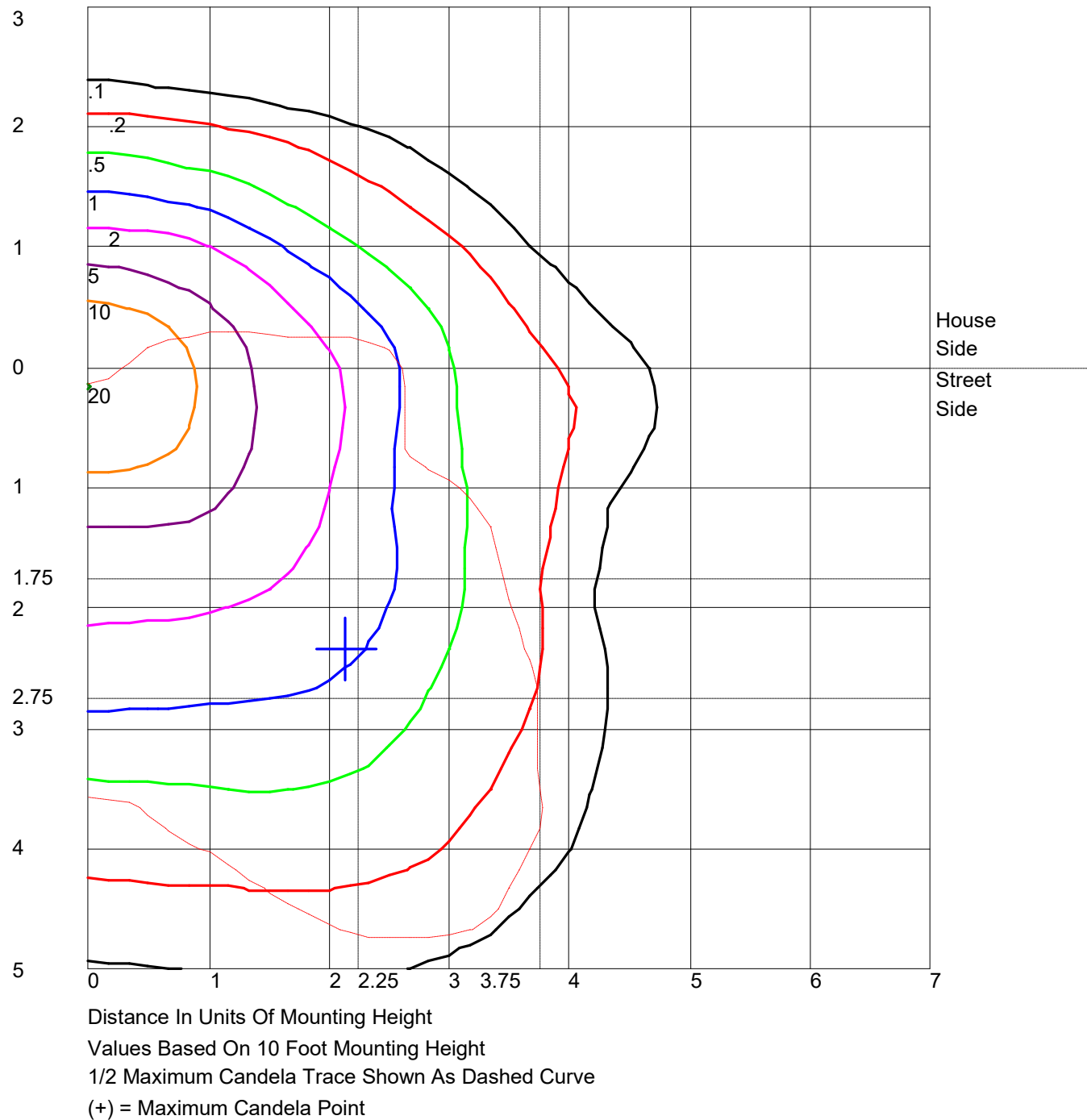
	Lumens	Percent Of Luminaire
Downward Street Side	6869.0	69.3
Downward House Side	3039.0	30.7
Downward Total	9908.0	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	9908.0	100.0

POLAR GRAPH

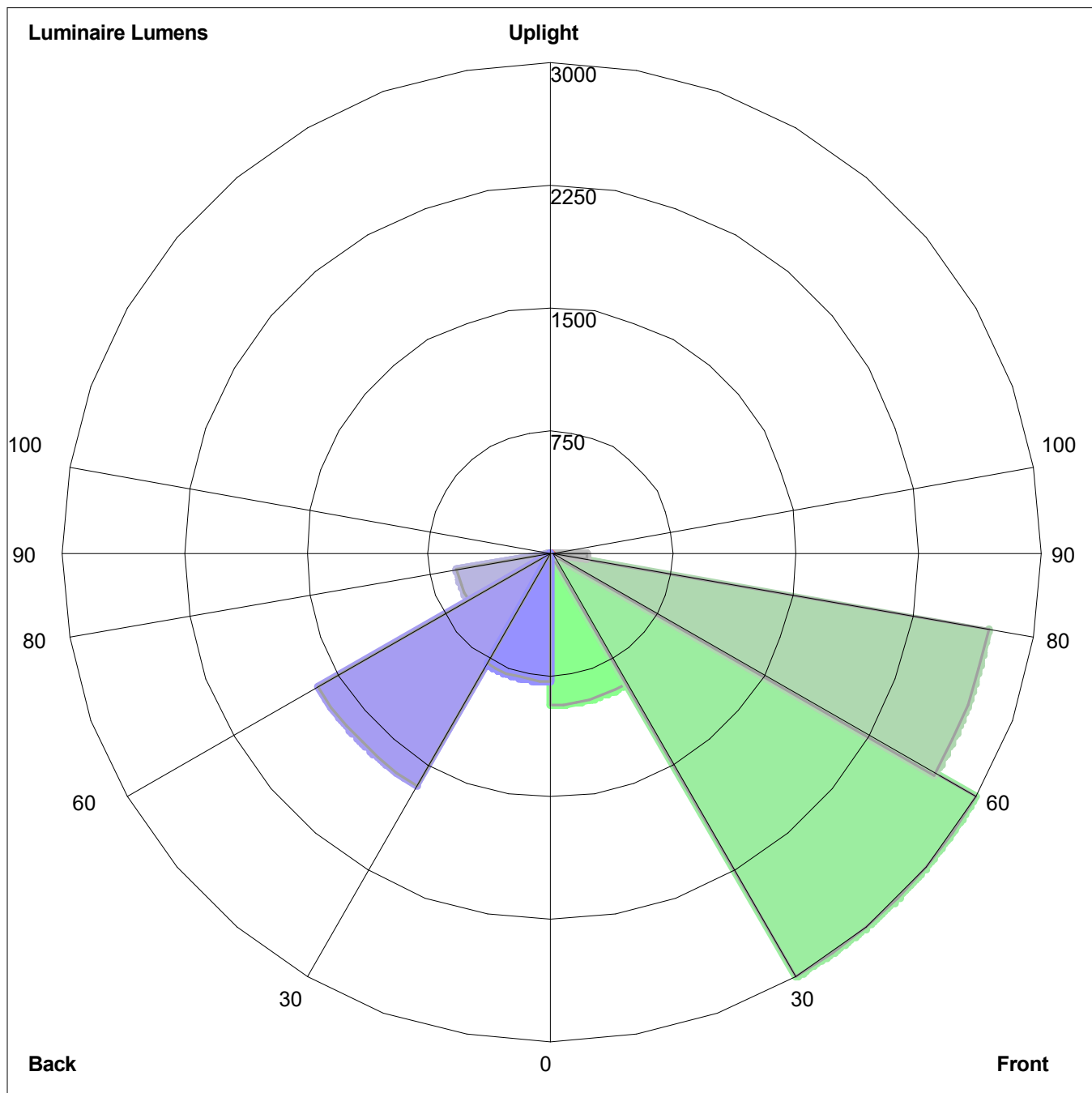


Maximum Candela = 4150 Located At Horizontal Angle = 42.5, Vertical Angle = 72.5
1 - Vertical Plane Through Horizontal Angles (42.5 - 222.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (72.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=930.6, Medium=2999.8, High=2717.9, Very High=220.6
Back: Low=789.6, Medium=1641.2, High=585.0, Very High=23.2
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G2