



## IES ROAD REPORT

PHOTOMETRIC FILENAME : SMW-LED-10L-3-UNV-DIM-30.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  
[MANUFACTURER] LSI INDUSTRIES, INC.  
[LUMEN CATEGORY] SMW-LED-10L-3-UNV-DIM-30  
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER] TEST PROCEDURE: IESNA LM-79-08  
[OTHER] SCALED FROM ORIGINAL TEST DATA

### CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Medium
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9715
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	78
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	4719
Maximum Candela Angle	57.5H 72.5V
Maximum Candela (<90 Degrees Vertical)	4719
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	2395 (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)	928.3	N.A.	9.6
FM - Front-Medium (30-60)	2819.7	N.A.	29.0
FH - Front-High (60-80)	1926.7	N.A.	19.8
FVH - Front-Very High (80-90)	116.8	N.A.	1.2
BL - Back-Low (0-30)	851.9	N.A.	8.8
BM - Back-Medium (30-60)	2023.0	N.A.	20.8
BH - Back-High (60-80)	1007.6	N.A.	10.4
BVH - Back-Very High (80-90)	40.7	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	9714.7	N.A.	100.0
BUG Rating	B3-U0-G3		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u><b>0.0</b></u>	<u><b>5.0</b></u>	<u><b>15.0</b></u>	<u><b>25.0</b></u>	<u><b>35.0</b></u>	<u><b>45.0</b></u>	<u><b>55.0</b></u>	<u><b>57.5</b></u>	<u><b>65.0</b></u>	<u><b>75.0</b></u>
<b>0.0</b>	2073	2073	2073	2073	2073	2073	2073	2073	2073	2073
<b>2.5</b>	2030	2032	2051	2059	2076	2090	2095	2099	2112	2118
<b>5.0</b>	2052	2053	2071	2080	2094	2108	2109	2112	2122	2126
<b>7.5</b>	2075	2077	2093	2102	2115	2124	2124	2126	2133	2135
<b>10.0</b>	2099	2101	2117	2125	2134	2144	2140	2141	2146	2145
<b>12.5</b>	2122	2124	2141	2148	2153	2162	2155	2157	2160	2154
<b>15.0</b>	2146	2148	2163	2170	2175	2182	2173	2174	2176	2169
<b>17.5</b>	2167	2169	2185	2190	2196	2201	2192	2194	2193	2185
<b>20.0</b>	2183	2186	2203	2208	2215	2224	2215	2215	2215	2205
<b>22.5</b>	2197	2198	2215	2223	2233	2245	2238	2240	2241	2229
<b>25.0</b>	2200	2203	2223	2235	2249	2268	2264	2268	2271	2258
<b>27.5</b>	2198	2201	2225	2242	2262	2291	2297	2300	2305	2292
<b>30.0</b>	2192	2196	2223	2245	2276	2314	2329	2334	2345	2330
<b>32.5</b>	2184	2187	2218	2248	2289	2339	2365	2373	2386	2373
<b>35.0</b>	2173	2177	2214	2249	2303	2370	2406	2418	2434	2421
<b>37.5</b>	2162	2166	2208	2251	2320	2403	2455	2469	2491	2479
<b>40.0</b>	2149	2152	2198	2253	2339	2443	2513	2531	2555	2543
<b>42.5</b>	2134	2137	2187	2254	2358	2488	2581	2601	2629	2612
<b>45.0</b>	2102	2105	2167	2250	2378	2535	2654	2679	2714	2690
<b>47.5</b>	2054	2055	2126	2237	2393	2582	2732	2763	2806	2781
<b>50.0</b>	1972	1980	2063	2208	2406	2625	2812	2851	2903	2872
<b>52.5</b>	1876	1887	1980	2159	2413	2670	2878	2924	2998	2969
<b>55.0</b>	1779	1785	1889	2095	2418	2716	2923	2970	3075	3069
<b>57.5</b>	1668	1675	1786	2019	2414	2770	2935	2977	3109	3174
<b>60.0</b>	1513	1520	1623	1891	2390	2847	2927	2950	3086	3276
<b>62.5</b>	1307	1313	1401	1653	2272	2989	2970	2946	3012	3342
<b>65.0</b>	1098	1102	1171	1339	1950	3144	3181	3062	2914	3353
<b>67.5</b>	778	766	876	1059	1409	2978	3646	3394	2791	3277
<b>70.0</b>	498	493	539	708	970	2283	4361	4104	2699	3043
<b>72.5</b>	259	272	320	478	642	1603	4705	4719	2642	2526
<b>75.0</b>	175	175	201	280	419	1065	3566	3955	2286	1745
<b>77.5</b>	120	121	135	178	269	668	1850	1944	2047	1017
<b>80.0</b>	85	86	95	121	184	398	798	854	1912	643
<b>82.5</b>	54	51	49	58	109	245	383	479	1236	312
<b>85.0</b>	11	11	11	15	27	79	210	324	612	118
<b>87.5</b>	1	1	1	1	1	2	21	55	128	39
<b>90.0</b>	0	0	0	0	0	0	0	0	0	0

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u><b>85.0</b></u>	<u><b>90.0</b></u>	<u><b>95.0</b></u>	<u><b>105.0</b></u>	<u><b>115.0</b></u>	<u><b>125.0</b></u>	<u><b>135.0</b></u>	<u><b>145.0</b></u>	<u><b>155.0</b></u>	<u><b>165.0</b></u>
<b>0.0</b>	2073	2073	2073	2073	2073	2073	2073	2073	2073	2073
<b>2.5</b>	2126	2114	2118	2115	2107	2085	2075	2060	2045	2025
<b>5.0</b>	2131	2117	2120	2114	2103	2081	2067	2052	2036	2015
<b>7.5</b>	2135	2120	2121	2113	2100	2076	2060	2045	2027	2007
<b>10.0</b>	2143	2125	2124	2112	2097	2072	2055	2039	2020	2000
<b>12.5</b>	2149	2131	2128	2113	2096	2068	2051	2033	2014	1993
<b>15.0</b>	2158	2139	2135	2115	2096	2066	2046	2026	2005	1984
<b>17.5</b>	2171	2149	2141	2119	2099	2065	2041	2018	1993	1968
<b>20.0</b>	2186	2162	2151	2127	2102	2064	2035	2006	1974	1944
<b>22.5</b>	2207	2179	2166	2138	2109	2063	2027	1986	1945	1907
<b>25.0</b>	2232	2200	2185	2152	2117	2061	2013	1958	1904	1857
<b>27.5</b>	2260	2227	2210	2170	2125	2057	1993	1920	1853	1798

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**CANDELA TABULATION - (Cont.)**

30.0	2294	2257	2237	2189	2133	2050	1963	1870	1791	1730
32.5	2332	2292	2266	2209	2140	2032	1922	1813	1724	1661
35.0	2376	2332	2299	2230	2143	2006	1873	1749	1657	1591
37.5	2427	2376	2338	2253	2142	1971	1813	1682	1593	1530
40.0	2481	2426	2379	2278	2136	1928	1753	1620	1534	1478
42.5	2548	2482	2425	2304	2123	1879	1692	1564	1484	1432
45.0	2617	2542	2476	2327	2100	1823	1630	1513	1440	1391
47.5	2688	2603	2526	2348	2067	1761	1578	1467	1397	1346
50.0	2764	2665	2576	2359	2022	1700	1526	1423	1353	1302
52.5	2848	2735	2628	2353	1952	1630	1473	1374	1305	1253
55.0	2943	2814	2682	2328	1861	1548	1412	1324	1252	1205
57.5	3062	2913	2741	2274	1758	1449	1332	1264	1201	1164
60.0	3221	3041	2814	2209	1652	1347	1241	1194	1151	1122
62.5	3439	3230	2909	2146	1536	1231	1135	1119	1085	1067
65.0	3661	3436	3039	2068	1394	1107	1018	1024	1008	997
67.5	3824	3617	3138	1931	1227	995	899	914	882	676
70.0	3727	3549	3039	1694	1050	857	794	738	586	368
72.5	3141	2895	2511	1397	837	681	644	492	339	258
75.0	2784	2293	1759	1034	657	522	399	325	242	136
77.5	3257	2518	1299	638	484	314	279	213	138	84
80.0	2395	1802	790	385	300	179	203	140	68	55
82.5	714	489	338	232	103	86	99	56	33	28
85.0	179	157	136	78	48	39	29	14	7	4
87.5	49	44	45	19	10	5	2	1	1	0
90.0	0	0	0	0	0	0	0	0	0	0

**Vert. Angles**      **Horizontal Angles**

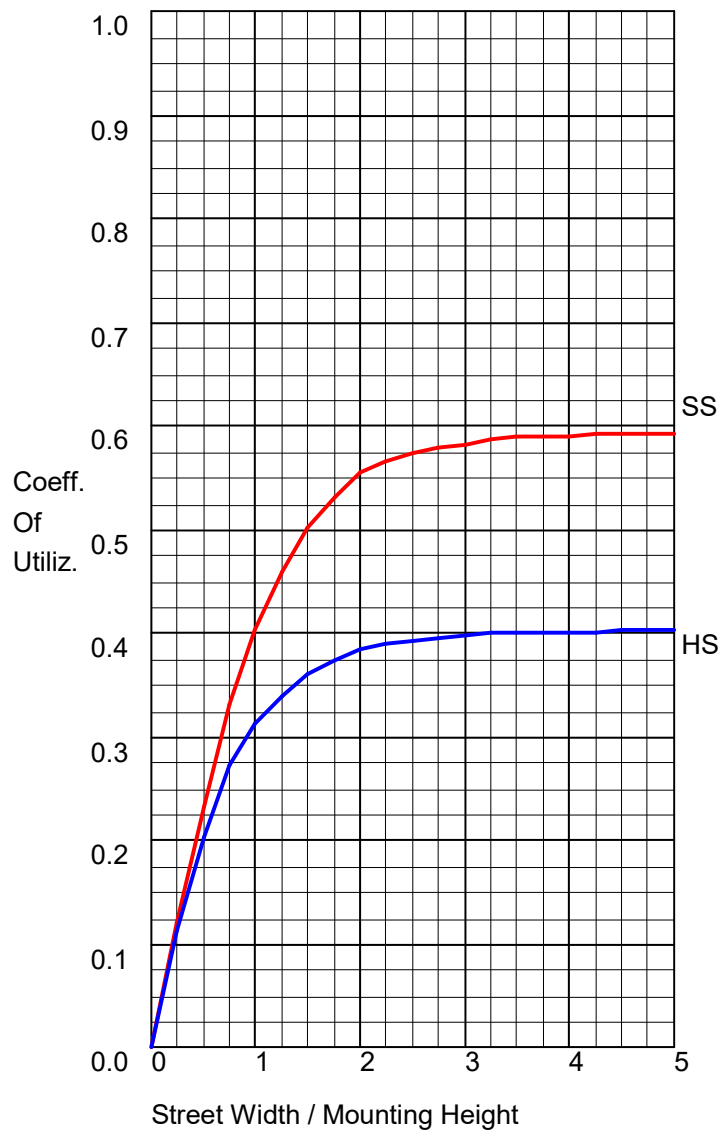
	<u>175.0</u>	<u>180.0</u>
0.0	2073	2073
2.5	1998	2014
5.0	1988	2003
7.5	1982	1993
10.0	1976	1986
12.5	1968	1978
15.0	1958	1967
17.5	1943	1949
20.0	1916	1921
22.5	1875	1881
25.0	1822	1822
27.5	1757	1756
30.0	1688	1685
32.5	1618	1614
35.0	1553	1547
37.5	1494	1489
40.0	1445	1441
42.5	1401	1398
45.0	1360	1358
47.5	1317	1317
50.0	1270	1273
52.5	1219	1220
55.0	1174	1178
57.5	1140	1142
60.0	1106	1105
62.5	1058	1054
65.0	959	943

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**CANDELA TABULATION - (Cont.)**

<b>67.5</b>	579	563
<b>70.0</b>	323	318
<b>72.5</b>	233	233
<b>75.0</b>	119	119
<b>77.5</b>	81	82
<b>80.0</b>	53	53
<b>82.5</b>	26	27
<b>85.0</b>	3	3
<b>87.5</b>	0	0
<b>90.0</b>	0	0

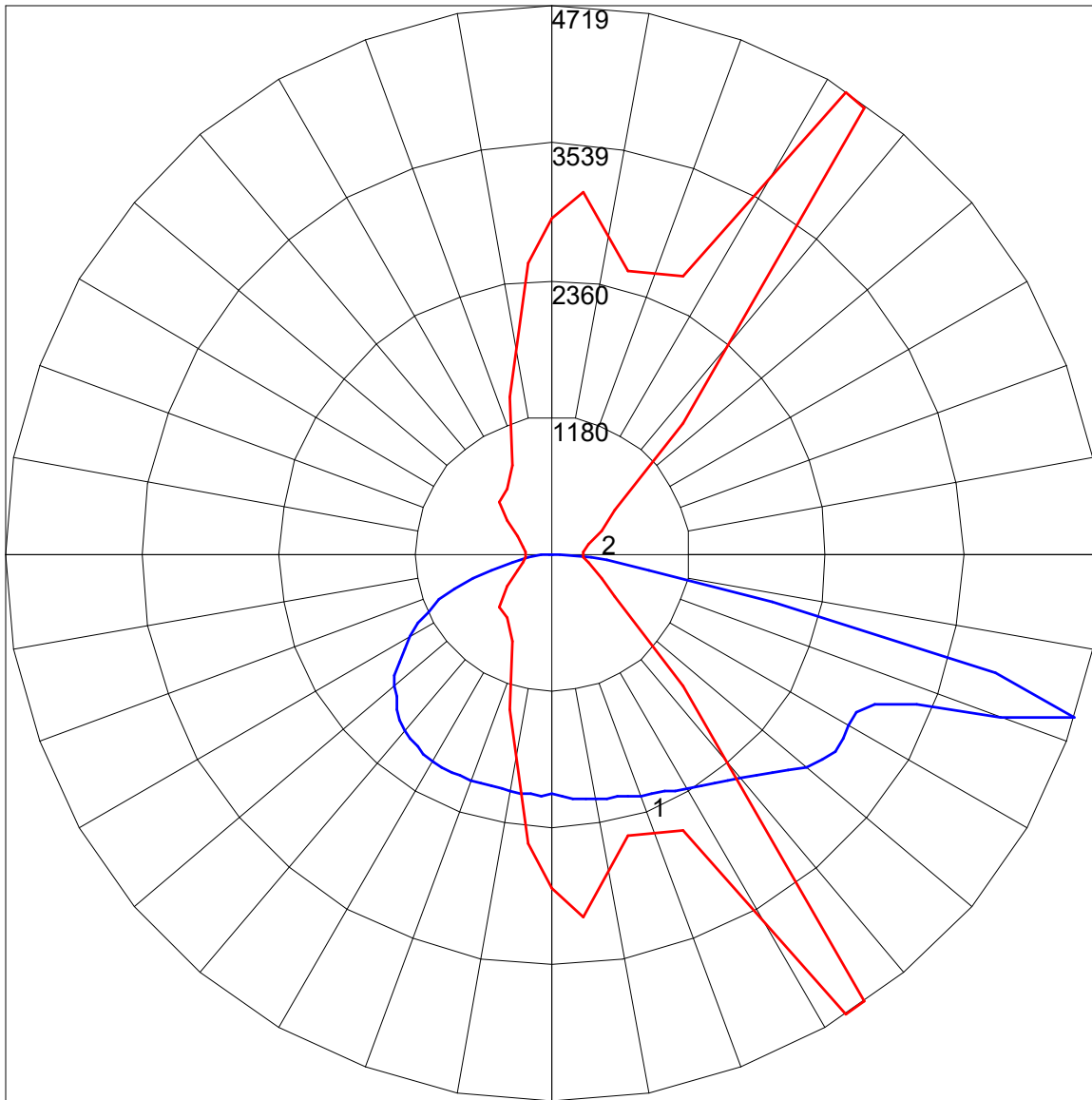
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

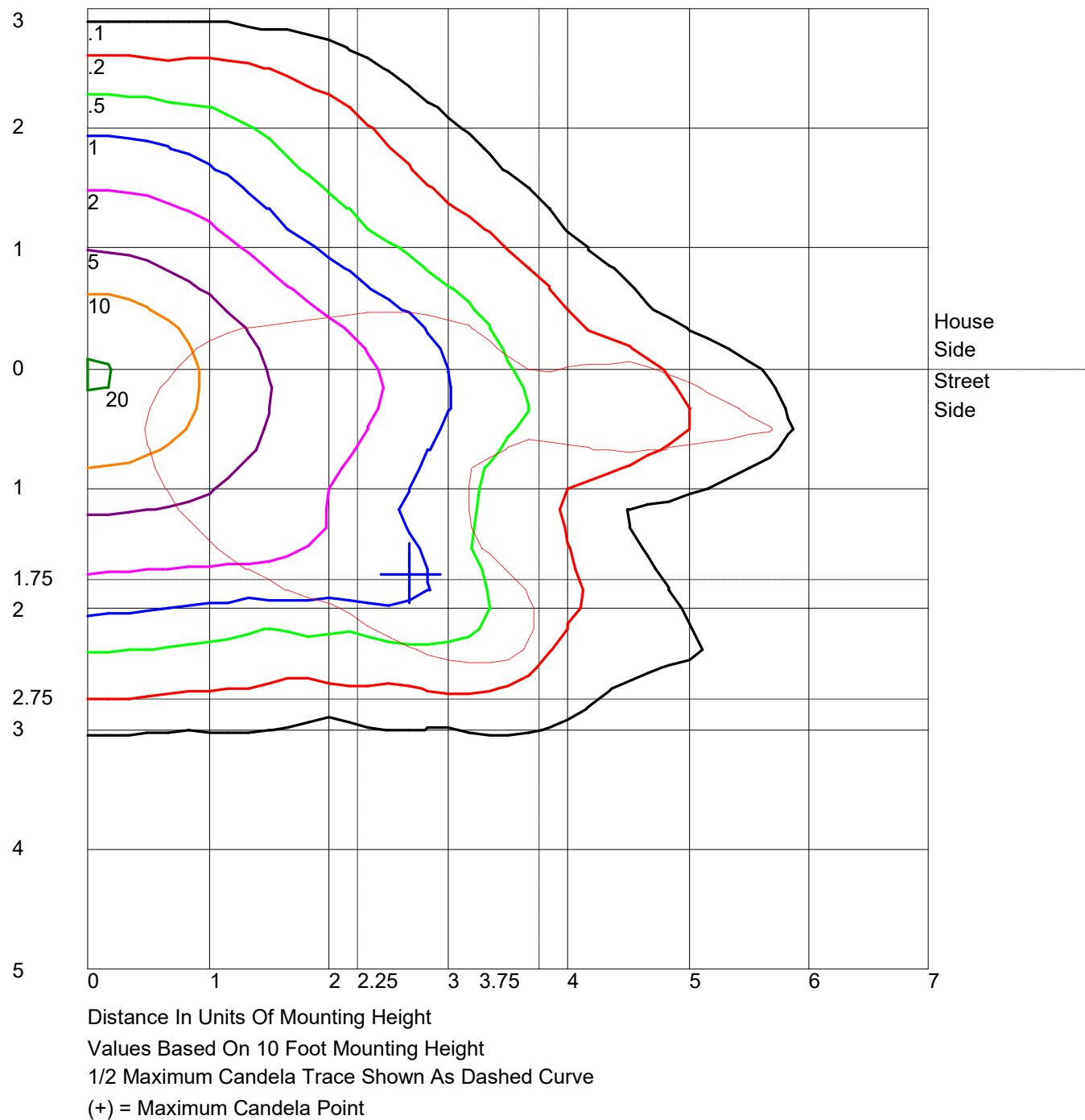
	Lumens	Percent Of Luminaire
Downward Street Side	5791.5	59.6
Downward House Side	3923.2	40.4
Downward Total	9714.7	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	9714.7	100.0

POLAR GRAPH



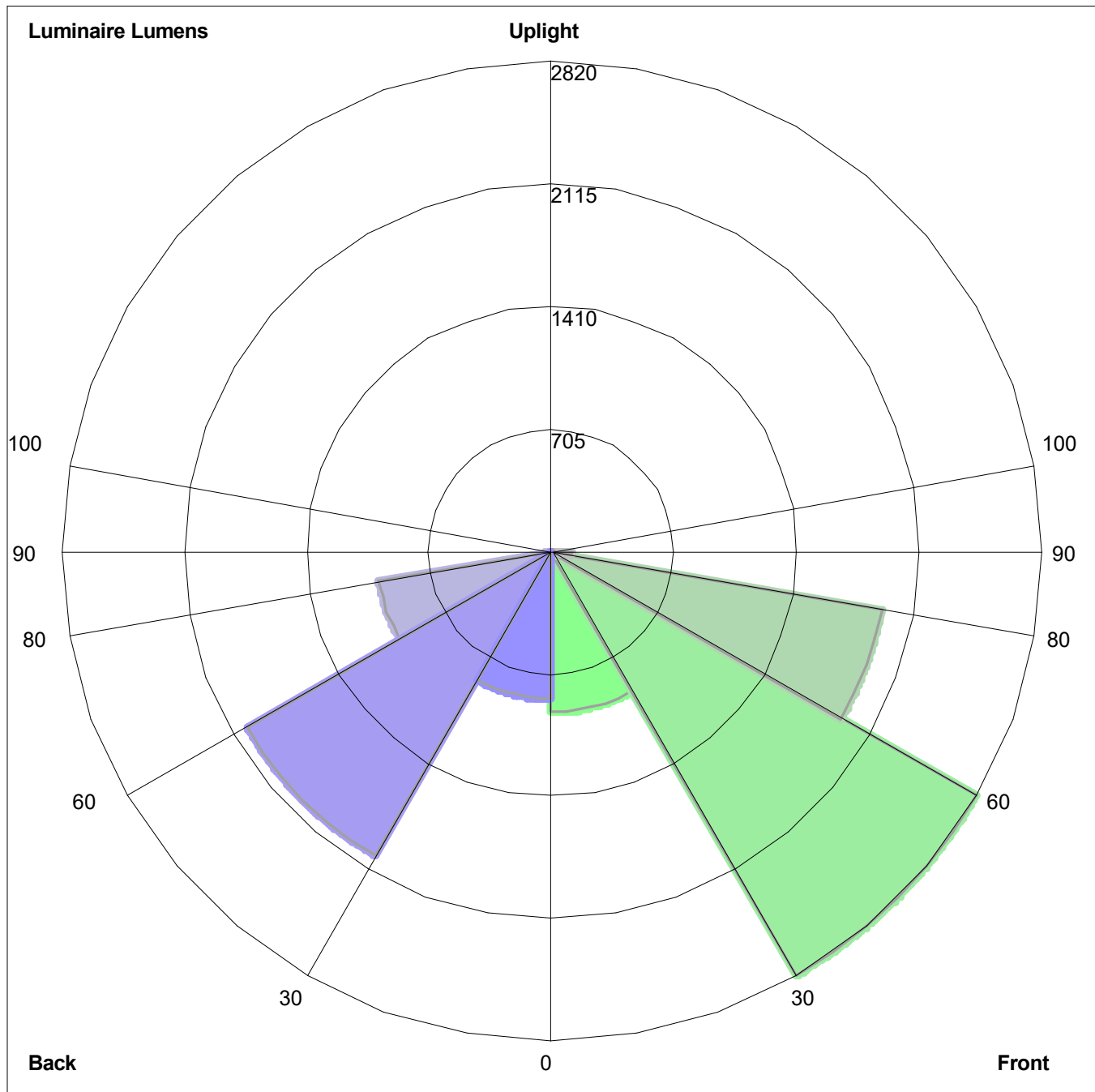
Maximum Candela = 4719 Located At Horizontal Angle = 57.5, Vertical Angle = 72.5  
# 1 - Vertical Plane Through Horizontal Angles (57.5 - 237.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (72.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
 Front: Low=928.3, Medium=2819.7, High=1926.7, Very High=116.8  
 Back: Low=851.9, Medium= 2023.0, High=1007.6, Very High=40.7  
 Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G3