



IES ROAD REPORT
PHOTOMETRIC FILENAME : ENM4-SAX-2-LED-10L-30.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11799
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/10/2020
[TEST DATE] 05/05/20
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] ENM4-SAX-2-LED-10L-30
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor

CHARACTERISTICS

IES Classification	Type II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10217
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	131
Total Luminaire Watts	77.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	8442
Maximum Candela Angle	77.5H 65V
Maximum Candela (<90 Degrees Vertical)	8442
Maximum Candela Angle (<90 Degrees Vertical)	77.5H 65V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	628 (6.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	720.6	N.A.	7.1
FM - Front-Medium (30-60)	3758.1	N.A.	36.8
FH - Front-High (60-80)	2150.1	N.A.	21.0
FVH - Front-Very High (80-90)	51.9	N.A.	0.5
BL - Back-Low (0-30)	668.7	N.A.	6.5
BM - Back-Medium (30-60)	2120.5	N.A.	20.8
BH - Back-High (60-80)	685.2	N.A.	6.7
BVH - Back-Very High (80-90)	62.0	N.A.	0.6
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	10217.1	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>45.0</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>	<u>77.5</u>
0.0	1368	1368	1368	1368	1368	1368	1368	1368	1368	1368
2.5	1391	1397	1396	1394	1395	1392	1385	1377	1373	1371
5.0	1431	1435	1435	1432	1433	1427	1418	1406	1395	1391
7.5	1467	1471	1473	1471	1473	1467	1457	1444	1426	1420
10.0	1501	1505	1508	1508	1511	1511	1503	1488	1465	1459
12.5	1526	1529	1535	1542	1556	1560	1558	1543	1521	1508
15.0	1537	1541	1554	1571	1596	1612	1621	1608	1587	1572
17.5	1543	1550	1565	1593	1634	1668	1689	1694	1666	1654
20.0	1561	1563	1583	1621	1674	1729	1765	1785	1762	1748
22.5	1577	1585	1612	1656	1717	1788	1857	1888	1871	1857
25.0	1609	1619	1645	1697	1768	1853	1945	1999	1995	1979
27.5	1659	1667	1694	1748	1831	1923	2035	2125	2136	2120
30.0	1731	1737	1764	1822	1905	2005	2131	2250	2284	2271
32.5	1836	1846	1874	1930	2008	2104	2233	2378	2444	2433
35.0	1991	2000	2027	2074	2146	2229	2348	2507	2609	2607
37.5	2199	2210	2245	2281	2325	2392	2481	2637	2781	2792
40.0	2452	2465	2505	2534	2565	2606	2637	2771	2968	2990
42.5	2718	2748	2782	2820	2871	2876	2842	2918	3181	3205
45.0	3003	3002	3051	3113	3191	3225	3118	3091	3407	3451
47.5	3150	3159	3235	3350	3505	3616	3489	3321	3677	3764
50.0	3174	3187	3291	3476	3757	4049	4024	3627	4019	4139
52.5	3007	3011	3153	3399	3831	4411	4614	4096	4468	4637
55.0	2626	2627	2792	3082	3627	4567	5290	4729	5083	5262
57.5	2026	2030	2205	2509	3106	4395	5904	5527	5831	6040
60.0	1414	1410	1507	1744	2295	3756	6271	6447	6736	6951
62.5	950	941	951	1096	1472	2674	6206	7205	7685	7864
65.0	664	647	654	739	911	1593	5427	7393	8373	8442
67.5	457	467	478	540	655	938	3856	6761	8251	8203
70.0	335	345	356	408	510	662	2246	5122	6633	6218
72.5	221	233	240	298	396	508	1217	3248	3917	3454
75.0	131	137	133	179	270	410	701	1911	1784	1382
77.5	97	107	91	112	162	291	443	1104	836	655
80.0	90	102	80	80	110	208	261	628	470	377
82.5	99	102	68	57	74	149	144	350	286	237
85.0	88	90	52	38	44	88	90	111	136	115
87.5	49	48	30	20	19	35	32	30	31	30
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	1368	1368	1368	1368	1368	1368	1368	1368	1368	1368
2.5	1373	1370	1369	1360	1359	1359	1356	1352	1351	1347
5.0	1389	1383	1376	1362	1352	1345	1338	1329	1327	1323
7.5	1414	1403	1393	1369	1351	1337	1327	1319	1319	1318
10.0	1446	1431	1414	1381	1355	1336	1327	1327	1335	1339
12.5	1488	1466	1445	1398	1359	1342	1344	1356	1376	1393
15.0	1543	1513	1484	1419	1369	1359	1371	1401	1441	1471
17.5	1612	1572	1533	1444	1385	1384	1415	1466	1526	1568
20.0	1692	1641	1594	1477	1410	1420	1473	1546	1625	1678
22.5	1789	1725	1664	1517	1444	1465	1545	1637	1735	1797
25.0	1901	1826	1744	1563	1485	1525	1631	1738	1848	1920
27.5	2029	1940	1845	1622	1533	1596	1722	1839	1959	2039

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CANDELA TABULATION - (Cont.)

30.0	2170	2072	1950	1685	1594	1671	1809	1936	2056	2134
32.5	2332	2211	2063	1753	1656	1747	1887	2011	2132	2200
35.0	2502	2367	2183	1821	1721	1816	1946	2059	2168	2228
37.5	2698	2531	2310	1886	1783	1866	1974	2072	2156	2196
40.0	2903	2710	2450	1951	1839	1896	1969	2040	2084	2098
42.5	3135	2905	2591	2012	1879	1893	1928	1958	1964	1940
45.0	3399	3123	2739	2066	1896	1861	1852	1844	1802	1752
47.5	3708	3370	2895	2115	1891	1796	1753	1705	1619	1558
50.0	4078	3648	3059	2149	1867	1710	1636	1552	1438	1378
52.5	4522	3965	3221	2183	1818	1605	1500	1407	1281	1225
55.0	5070	4321	3374	2183	1751	1487	1372	1278	1138	1064
57.5	5725	4676	3470	2141	1657	1348	1243	1145	975	915
60.0	6331	4950	3457	2034	1522	1190	1100	994	821	768
62.5	6781	4928	3205	1821	1328	1011	924	834	664	619
65.0	6671	4454	2639	1492	1088	821	741	669	528	478
67.5	5663	3410	1855	1102	848	631	584	527	419	410
70.0	3776	2123	1137	737	635	492	472	415	370	365
72.5	1785	1082	711	517	487	389	378	357	318	285
75.0	684	543	471	375	376	324	325	284	195	161
77.5	374	340	332	300	300	277	239	166	135	133
80.0	252	209	208	245	246	208	140	125	143	156
82.5	155	114	112	196	193	117	106	121	233	233
85.0	82	58	59	137	79	79	89	130	233	219
87.5	26	17	19	24	25	32	39	62	112	94
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles **Horizontal Angles**

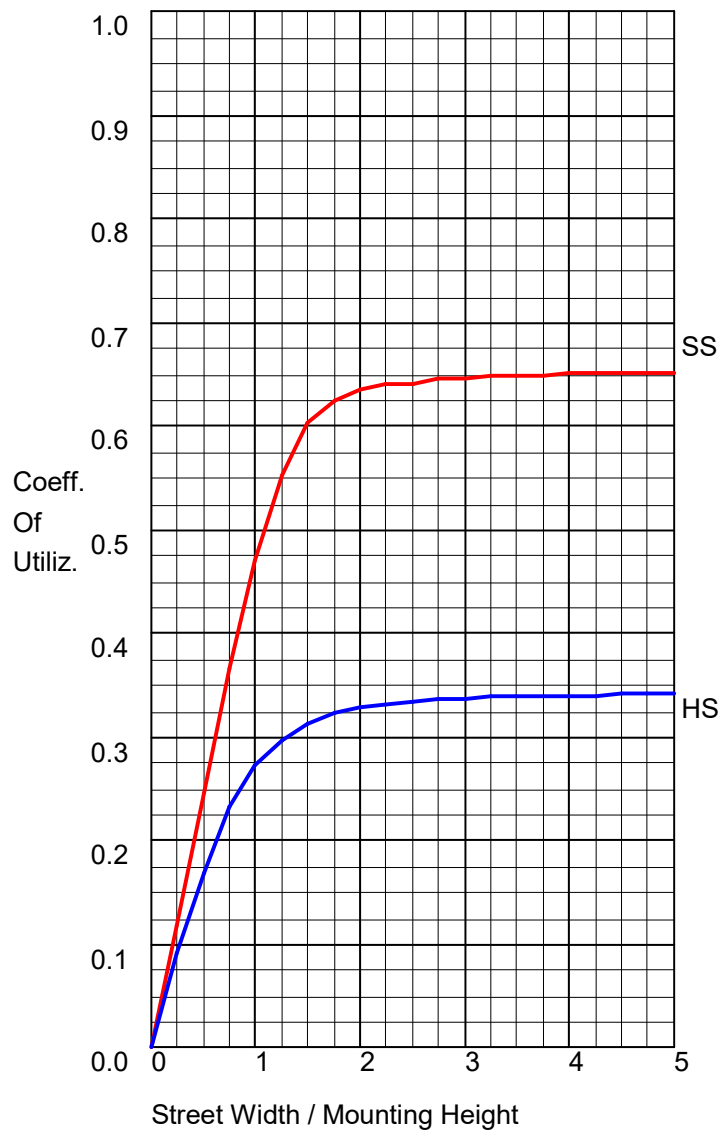
	<u>175.0</u>	<u>180.0</u>
0.0	1368	1368
2.5	1349	1348
5.0	1323	1323
7.5	1316	1316
10.0	1341	1340
12.5	1398	1397
15.0	1481	1483
17.5	1591	1589
20.0	1709	1720
22.5	1833	1846
25.0	1957	1967
27.5	2079	2083
30.0	2172	2179
32.5	2232	2242
35.0	2244	2258
37.5	2199	2209
40.0	2089	2090
42.5	1926	1923
45.0	1733	1731
47.5	1523	1509
50.0	1342	1330
52.5	1177	1175
55.0	1015	1009
57.5	874	868
60.0	723	717
62.5	582	577
65.0	467	468

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CANDELA TABULATION - (Cont.)

67.5	421	423
70.0	387	395
72.5	294	309
75.0	190	220
77.5	159	188
80.0	182	199
82.5	246	249
85.0	228	228
87.5	48	66
90.0	0	0

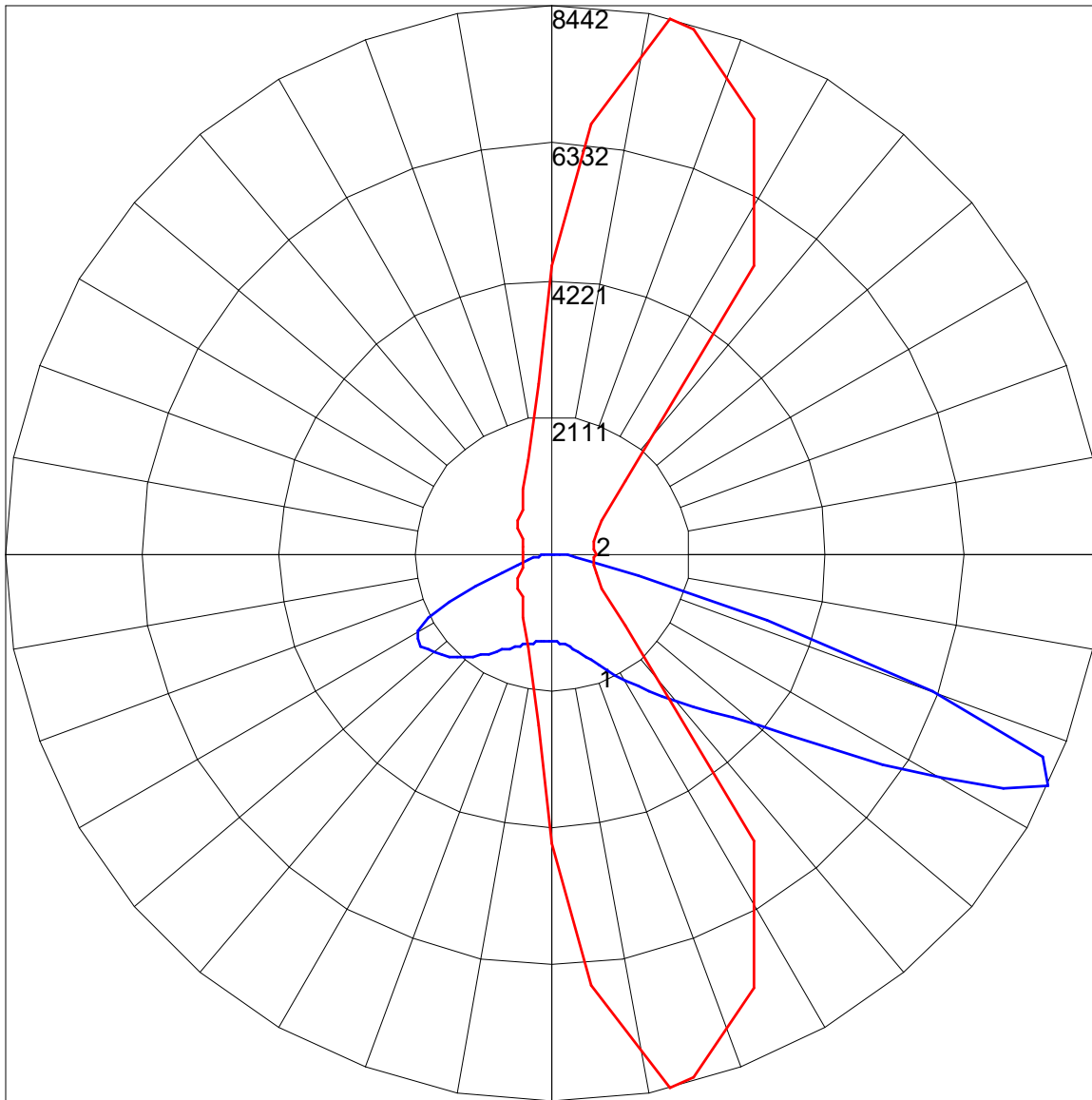
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

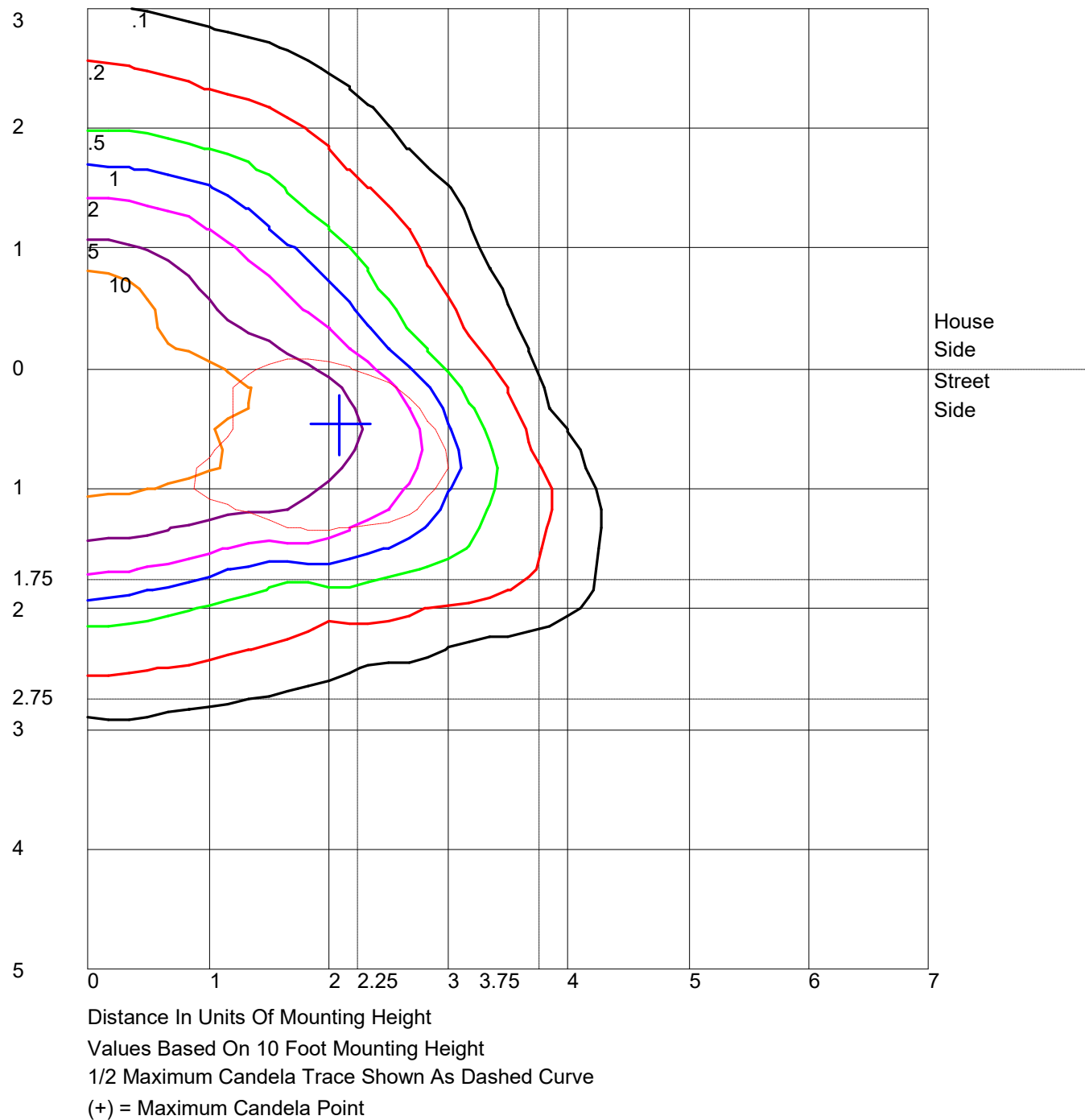
	Lumens	Percent Of Luminaire
Downward Street Side	6680.8	65.4
Downward House Side	3536.4	34.6
Downward Total	10217.2	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	10217.2	100.0

POLAR GRAPH

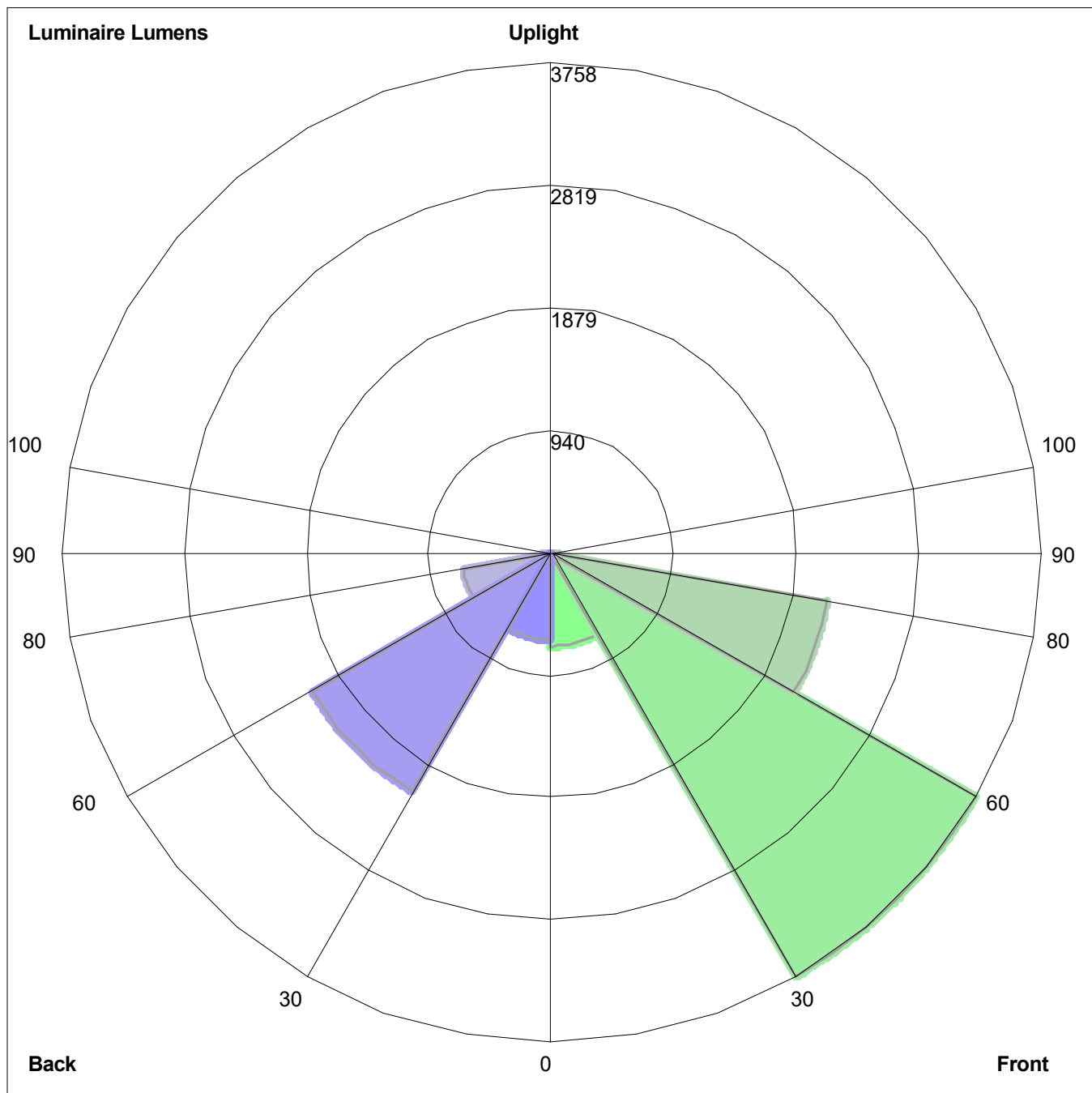


Maximum Candela = 8442 Located At Horizontal Angle = 77.5, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (77.5 - 257.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=720.6, Medium=3758.1, High=2150.1, Very High=51.9
Back: Low=668.7, Medium=2120.5, High=685.2, Very High=62.0
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G2