



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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11796
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/10/2020
[TEST DATE] 05/04/20
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] ENM4-SAX-FT-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 IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10376
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	133
Total Luminaire Watts	77.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	6797
Maximum Candela Angle	45H 70V
Maximum Candela (<90 Degrees Vertical)	6797
Maximum Candela Angle (<90 Degrees Vertical)	45H 70V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1996 (19.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	682.1	N.A.	6.6
FM - Front-Medium (30-60)	3108.3	N.A.	30.0
FH - Front-High (60-80)	3675.5	N.A.	35.4
FVH - Front-Very High (80-90)	200.6	N.A.	1.9
BL - Back-Low (0-30)	623.3	N.A.	6.0
BM - Back-Medium (30-60)	1452.4	N.A.	14.0
BH - Back-High (60-80)	587.3	N.A.	5.7
BVH - Back-Very High (80-90)	46.4	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	10375.9	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	1425	1425	1425	1425	1425	1425	1425	1425	1425	1425
2.5	1422	1424	1426	1430	1432	1431	1433	1435	1432	1431
5.0	1420	1420	1423	1429	1435	1439	1439	1444	1444	1445
7.5	1396	1398	1404	1413	1428	1438	1442	1457	1465	1471
10.0	1386	1390	1398	1410	1428	1442	1446	1472	1493	1506
12.5	1391	1392	1403	1418	1439	1457	1465	1496	1522	1549
15.0	1414	1419	1427	1444	1468	1490	1497	1529	1562	1599
17.5	1456	1461	1470	1487	1511	1530	1539	1572	1601	1643
20.0	1518	1520	1530	1546	1568	1586	1589	1614	1643	1676
22.5	1589	1593	1600	1614	1631	1643	1649	1666	1678	1710
25.0	1677	1678	1683	1695	1703	1710	1710	1712	1716	1736
27.5	1769	1778	1776	1783	1786	1783	1777	1764	1752	1760
30.0	1876	1882	1881	1882	1879	1862	1853	1823	1790	1778
32.5	1977	1984	1987	1987	1972	1950	1941	1890	1831	1796
35.0	2088	2098	2098	2094	2081	2050	2042	1967	1879	1818
37.5	2207	2211	2221	2214	2198	2168	2157	2067	1940	1845
40.0	2335	2344	2348	2354	2329	2303	2291	2183	2016	1889
42.5	2500	2499	2506	2509	2499	2462	2453	2334	2120	1950
45.0	2659	2659	2674	2688	2684	2648	2639	2513	2254	2049
47.5	2832	2833	2859	2893	2907	2882	2863	2742	2444	2188
50.0	3017	3017	3057	3117	3151	3140	3135	3024	2684	2371
52.5	3190	3194	3259	3361	3424	3438	3441	3360	2988	2611
55.0	3342	3356	3436	3594	3718	3763	3783	3753	3364	2902
57.5	3476	3487	3598	3816	4031	4147	4190	4240	3790	3246
60.0	3614	3621	3759	4043	4348	4572	4641	4776	4267	3570
62.5	3804	3817	3990	4326	4723	5051	5161	5350	4725	3833
65.0	4061	4089	4306	4704	5217	5588	5719	5868	5062	3838
67.5	4158	4189	4536	5161	5833	6215	6325	6181	4982	3404
70.0	3841	3898	4370	5409	6450	6793	6797	5974	4267	2394
72.5	3002	3095	3643	4895	6533	6699	6514	5060	2894	1291
75.0	1775	1806	2443	3655	5331	5539	5346	3433	1578	856
77.5	819	852	1233	2163	3342	3746	3588	2031	1060	563
80.0	403	436	750	1186	1729	1996	1934	1289	666	350
82.5	253	264	495	758	847	1145	1098	685	391	200
85.0	191	202	352	485	586	566	493	315	197	108
87.5	123	139	237	272	346	156	104	98	60	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	1425	1425	1425	1425	1425	1425	1425	1425	1425	1425
2.5	1430	1436	1437	1428	1432	1432	1428	1423	1427	1419
5.0	1447	1447	1449	1440	1438	1433	1417	1407	1399	1393
7.5	1474	1473	1473	1459	1442	1420	1405	1401	1402	1399
10.0	1508	1508	1502	1479	1443	1424	1418	1420	1426	1423
12.5	1553	1549	1542	1499	1449	1435	1437	1437	1441	1442
15.0	1605	1595	1582	1518	1461	1452	1452	1450	1456	1452
17.5	1652	1641	1622	1535	1475	1468	1459	1460	1458	1459
20.0	1695	1683	1660	1550	1486	1471	1467	1460	1459	1456
22.5	1731	1721	1692	1558	1494	1474	1468	1457	1455	1451
25.0	1754	1749	1718	1560	1495	1475	1461	1449	1448	1444
27.5	1772	1764	1735	1558	1484	1466	1450	1440	1437	1434

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CANDELA TABULATION - (Cont.)

30.0	1778	1772	1740	1541	1467	1451	1434	1422	1421	1425
32.5	1781	1771	1736	1518	1444	1433	1413	1400	1405	1410
35.0	1780	1760	1727	1493	1420	1405	1387	1372	1385	1396
37.5	1777	1751	1715	1464	1383	1373	1353	1344	1361	1380
40.0	1788	1744	1699	1427	1350	1335	1317	1305	1342	1373
42.5	1817	1753	1694	1392	1301	1295	1272	1269	1323	1343
45.0	1869	1776	1694	1357	1251	1245	1220	1227	1321	1250
47.5	1949	1825	1717	1325	1194	1195	1168	1188	1263	1148
50.0	2071	1906	1764	1305	1122	1135	1109	1153	1175	1063
52.5	2237	2017	1827	1294	1052	1069	1043	1111	1081	984
55.0	2433	2148	1909	1291	980	997	980	1047	994	910
57.5	2645	2289	1996	1289	909	932	914	971	895	805
60.0	2850	2411	1995	1276	840	866	852	879	787	731
62.5	2925	2384	1819	1231	772	796	782	785	691	665
65.0	2739	2126	1440	1116	694	719	701	719	616	608
67.5	2179	1599	958	900	611	635	633	661	556	569
70.0	1243	901	594	638	519	547	570	596	502	531
72.5	683	526	411	462	415	458	500	521	444	453
75.0	472	345	270	331	318	365	417	419	298	290
77.5	288	212	177	230	242	289	309	248	217	235
80.0	156	121	123	167	187	211	187	188	170	186
82.5	101	80	81	122	140	123	131	143	115	138
85.0	59	41	45	78	71	75	86	80	54	87
87.5	21	10	15	27	31	31	29	29	23	35
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles **Horizontal Angles**

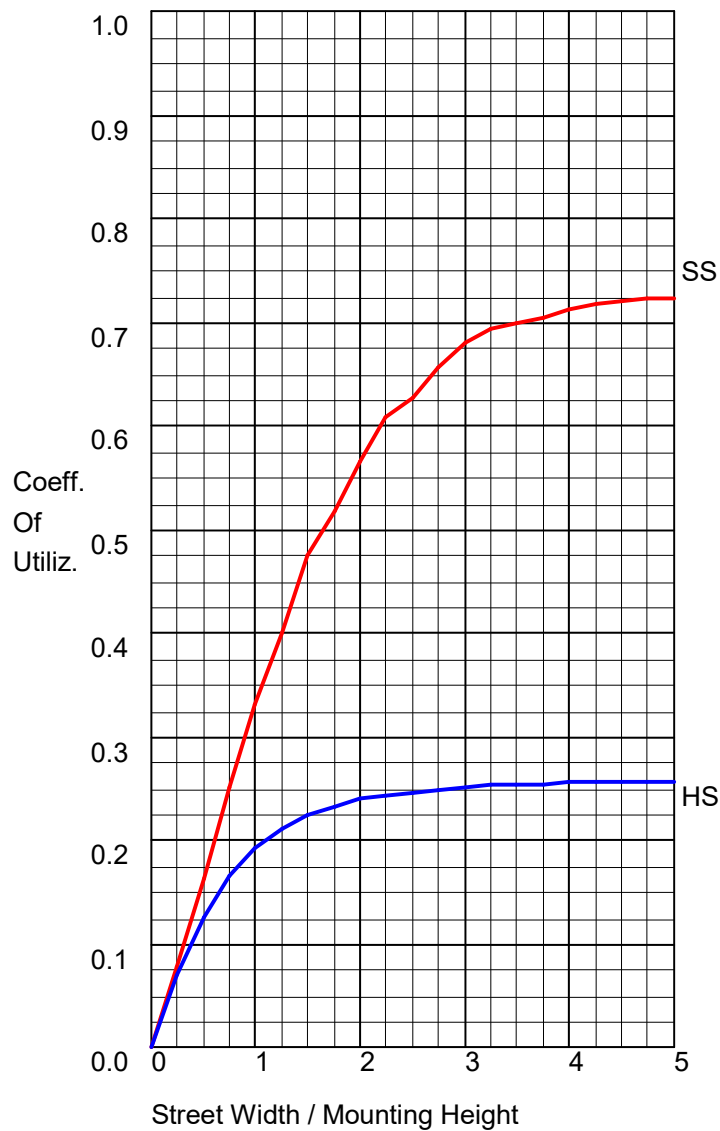
	<u>175.0</u>	<u>180.0</u>
0.0	1425	1425
2.5	1420	1418
5.0	1390	1389
7.5	1398	1397
10.0	1424	1423
12.5	1438	1437
15.0	1453	1453
17.5	1454	1454
20.0	1454	1454
22.5	1450	1450
25.0	1444	1443
27.5	1435	1433
30.0	1426	1423
32.5	1412	1413
35.0	1399	1396
37.5	1379	1380
40.0	1361	1356
42.5	1259	1251
45.0	1160	1156
47.5	1081	1072
50.0	1010	998
52.5	934	928
55.0	857	847
57.5	765	752
60.0	692	679
62.5	634	621
65.0	593	581

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CANDELA TABULATION - (Cont.)

67.5	569	555
70.0	546	528
72.5	463	451
75.0	347	346
77.5	318	329
80.0	267	292
82.5	212	230
85.0	141	164
87.5	73	84
90.0	0	0

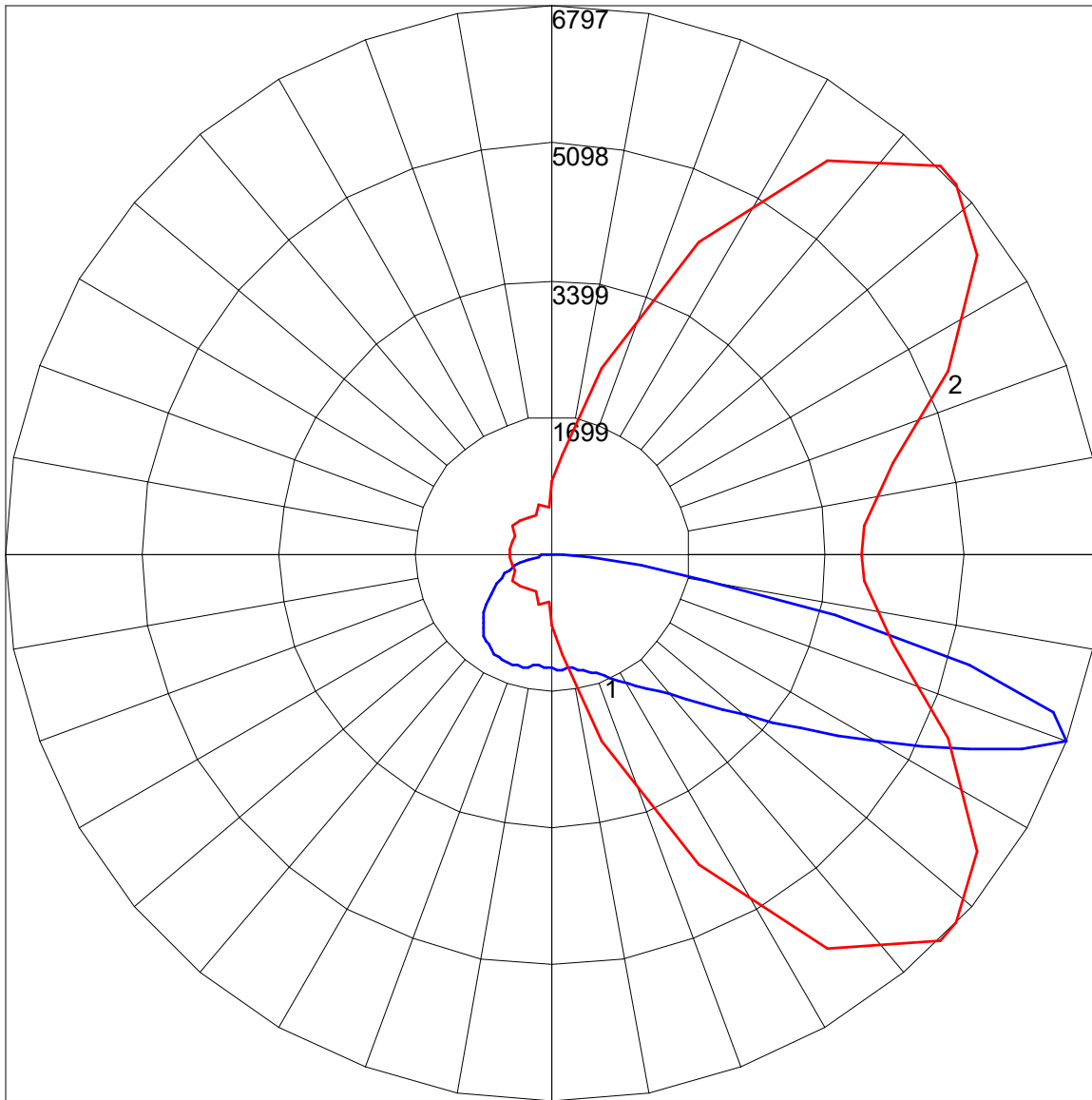
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

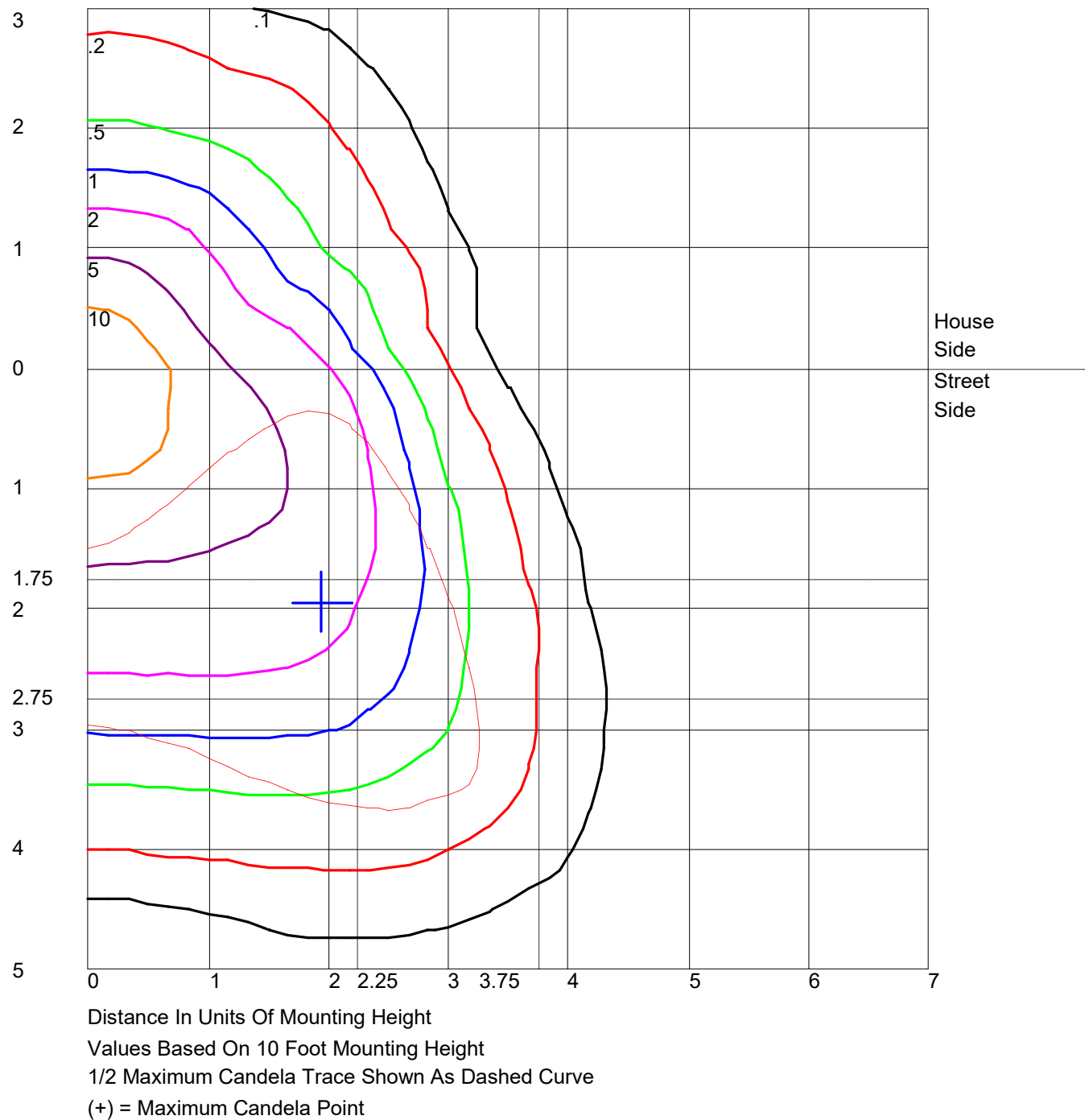
	Lumens	Percent Of Luminaire
Downward Street Side	7666.5	73.9
Downward House Side	2709.4	26.1
Downward Total	10375.9	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	10375.9	100.0

POLAR GRAPH

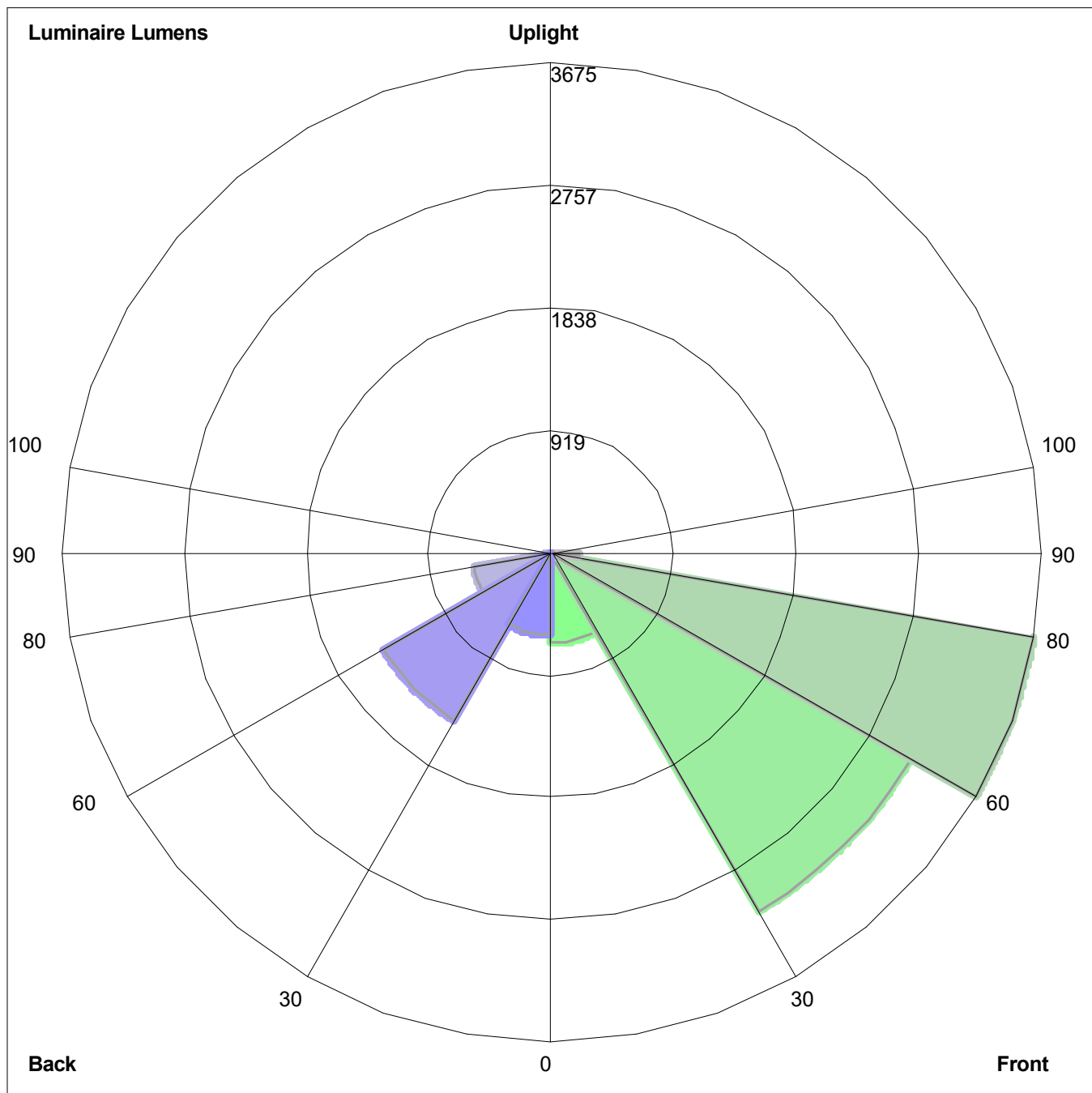


Maximum Candela = 6797 Located At Horizontal Angle = 45, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=682.1, Medium=3108.3, High=3675.5, Very High=200.6
Back: Low=623.3, Medium=1452.4, High=587.3, Very High=46.4
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G2