



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-SAX-5W-LED-18L-30-IL.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11786

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 06/10/2020

[TEST DATE] 04/30/20

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] ENM4-SAX-5W-LED-18L-30-IL

[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.

[OTHER] TEST PROCEDURE: IESNA LM-79-08

[SEARCH_SOURCETYPE] LED

[SEARCH_APPLICATION] Outdoor

[FACTORED] SCALED FROM ORIGINAL TEST DATA

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11211
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	75
Total Luminaire Watts	149
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	8025
Maximum Candela Angle	45H 67.5V
Maximum Candela (<90 Degrees Vertical)	8025
Maximum Candela Angle (<90 Degrees Vertical)	45H 67.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	365 (3.3% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	702.5	N.A.	6.3
FM - Front-Medium (30-60)	4221.7	N.A.	37.7
FH - Front-High (60-80)	3512.7	N.A.	31.3
FVH - Front-Very High (80-90)	38.0	N.A.	0.3
BL - Back-Low (0-30)	694.7	N.A.	6.2
BM - Back-Medium (30-60)	1545.5	N.A.	13.8
BH - Back-High (60-80)	492.8	N.A.	4.4
BVH - Back-Very High (80-90)	3.1	N.A.	0.0
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	11211.0	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>47.5</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	1193	1193	1193	1193	1193	1193	1193	1193	1193	1193
2.5	1198	1180	1182	1179	1182	1187	1170	1182	1188	1182
5.0	1183	1163	1168	1169	1175	1177	1161	1180	1188	1194
7.5	1194	1177	1178	1181	1188	1191	1175	1195	1204	1217
10.0	1232	1211	1217	1220	1223	1231	1212	1233	1237	1246
12.5	1292	1276	1280	1285	1290	1294	1276	1294	1292	1300
15.0	1373	1361	1365	1378	1377	1384	1370	1378	1370	1375
17.5	1467	1454	1466	1489	1495	1500	1500	1489	1472	1462
20.0	1575	1571	1583	1621	1643	1646	1642	1623	1590	1568
22.5	1685	1686	1718	1766	1803	1820	1806	1784	1726	1689
25.0	1805	1803	1852	1939	1989	2009	1998	1967	1884	1813
27.5	1930	1934	2005	2117	2210	2220	2221	2158	2051	1950
30.0	2060	2072	2168	2315	2432	2447	2448	2370	2224	2105
32.5	2194	2222	2327	2505	2653	2674	2661	2590	2413	2281
35.0	2337	2359	2484	2693	2861	2921	2898	2807	2616	2450
37.5	2477	2514	2643	2878	3078	3158	3165	3034	2845	2639
40.0	2644	2679	2819	3073	3310	3394	3414	3276	3051	2848
42.5	2830	2865	3023	3281	3539	3627	3652	3524	3285	3060
45.0	3031	3070	3234	3489	3761	3871	3894	3761	3513	3298
47.5	3268	3302	3460	3712	4014	4103	4151	4010	3772	3543
50.0	3487	3532	3708	3940	4267	4384	4428	4273	4009	3783
52.5	3721	3789	3948	4205	4527	4665	4696	4535	4278	4076
55.0	3985	4064	4219	4470	4828	4977	5001	4823	4607	4388
57.5	4263	4329	4502	4772	5205	5403	5442	5222	4937	4704
60.0	4481	4549	4803	5157	5716	6008	6097	5684	5229	4897
62.5	4608	4653	4933	5450	6338	6756	6800	6182	5475	5008
65.0	4303	4366	4788	5493	6702	7498	7420	6534	5613	5109
67.5	3175	3195	3912	5018	6633	8025	7975	6997	5748	4955
70.0	914	933	1658	3447	5769	7975	7984	6875	4977	3798
72.5	262	266	363	773	3293	6523	6526	5434	3477	2350
75.0	117	121	137	247	707	3000	3479	3168	1790	1050
77.5	57	57	65	91	212	613	700	1124	777	453
80.0	43	43	44	53	84	146	165	276	365	218
82.5	40	40	42	48	59	71	73	98	167	175
85.0	33	33	35	40	50	59	60	70	93	144
87.5	22	22	24	27	32	40	43	51	73	91
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	1193	1193	1193	1193	1193	1193	1193	1193	1193	1193
2.5	1189	1194	1199	1193	1202	1206	1209	1212	1220	1221
5.0	1201	1209	1220	1223	1232	1243	1252	1259	1262	1271
7.5	1228	1241	1252	1265	1279	1295	1304	1311	1316	1320
10.0	1267	1285	1296	1317	1337	1358	1366	1371	1379	1375
12.5	1321	1340	1356	1388	1417	1436	1439	1447	1439	1438
15.0	1390	1412	1433	1465	1505	1525	1527	1531	1516	1506
17.5	1471	1495	1518	1567	1608	1630	1640	1633	1602	1572
20.0	1572	1586	1614	1670	1721	1757	1765	1739	1689	1636
22.5	1680	1696	1731	1797	1860	1904	1905	1871	1784	1682
25.0	1796	1822	1849	1922	2005	2053	2049	1979	1787	1572
27.5	1923	1944	1969	2066	2157	2214	2196	1988	1586	1261

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CANDELA TABULATION - (Cont.)

30.0	2062	2083	2113	2210	2330	2399	2289	1794	1221	869
32.5	2220	2240	2273	2379	2519	2575	2205	1417	827	528
35.0	2382	2393	2433	2545	2703	2688	1900	997	507	322
37.5	2560	2563	2615	2738	2887	2644	1468	629	309	217
40.0	2754	2760	2802	2934	3074	2381	1014	373	209	169
42.5	2950	2961	2997	3150	3236	1915	634	235	160	138
45.0	3161	3179	3230	3378	3252	1395	364	171	131	117
47.5	3390	3414	3468	3624	3065	910	225	132	111	95
50.0	3653	3665	3725	3881	2648	541	157	109	89	73
52.5	3954	3990	4014	4143	2038	313	116	87	67	51
55.0	4257	4278	4322	4351	1412	187	93	66	45	32
57.5	4502	4541	4594	4358	947	122	71	45	27	15
60.0	4650	4666	4725	3975	681	91	52	27	12	4
62.5	4694	4704	4746	3159	570	82	35	12	4	1
65.0	4748	4761	4772	2133	539	120	20	4	1	0
67.5	4474	4460	4487	1254	511	185	10	3	1	0
70.0	3186	3137	3189	593	396	237	11	3	2	1
72.5	1838	1688	1716	208	189	206	7	3	1	0
75.0	738	695	685	91	69	87	4	1	0	0
77.5	324	295	260	45	25	33	1	0	0	0
80.0	172	150	110	21	9	10	0	0	0	0
82.5	124	104	62	5	4	4	0	0	0	0
85.0	84	63	26	1	0	1	0	0	0	0
87.5	48	18	1	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

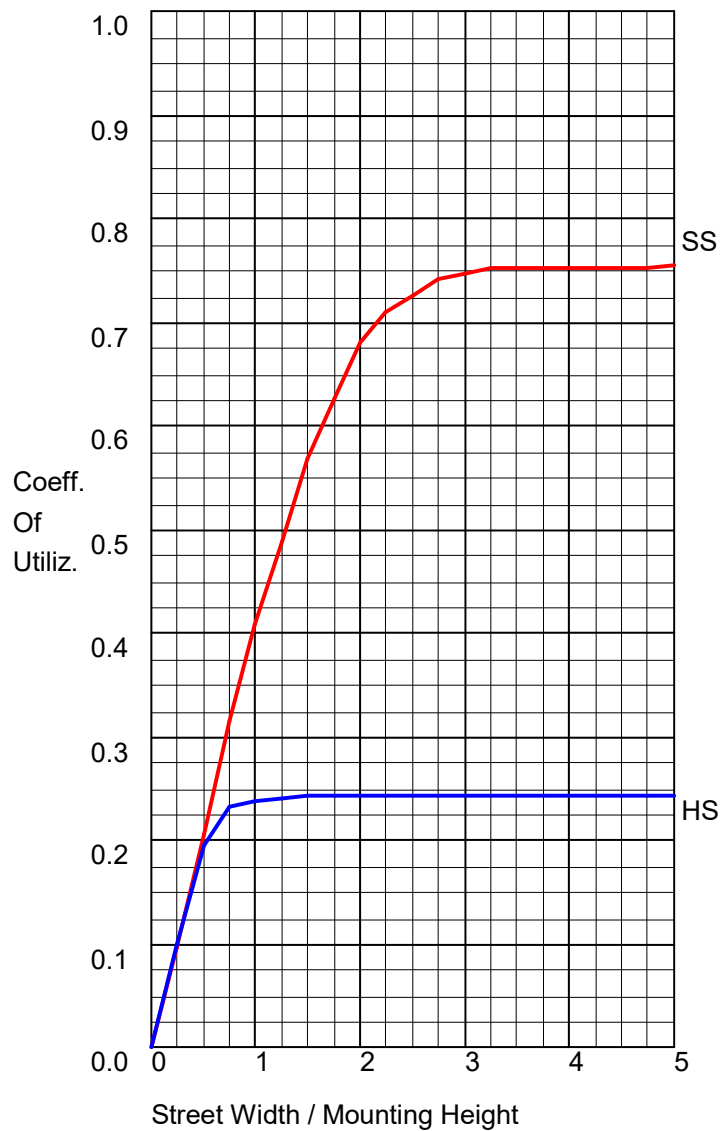
	<u>175.0</u>	<u>180.0</u>
0.0	1193	1193
2.5	1222	1220
5.0	1272	1266
7.5	1319	1320
10.0	1371	1382
12.5	1430	1434
15.0	1496	1491
17.5	1557	1557
20.0	1606	1610
22.5	1605	1599
25.0	1438	1420
27.5	1082	1061
30.0	705	685
32.5	428	416
35.0	263	262
37.5	192	191
40.0	154	151
42.5	131	129
45.0	111	108
47.5	89	87
50.0	67	65
52.5	45	43
55.0	26	25
57.5	10	10
60.0	1	1
62.5	0	0
65.0	0	0

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CANDELA TABULATION - (Cont.)

67.5	0	0
70.0	0	0
72.5	0	0
75.0	0	0
77.5	0	0
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0

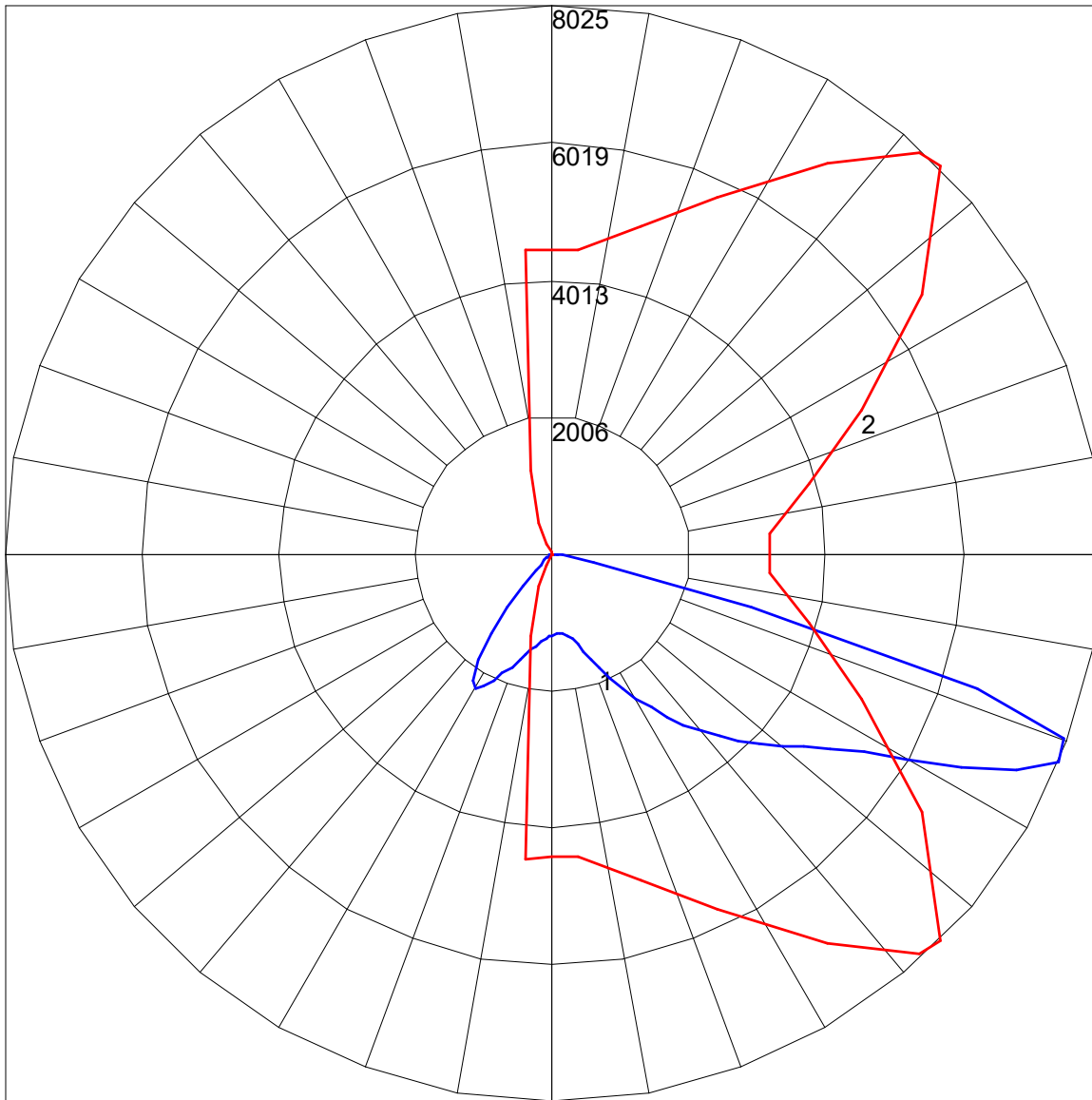
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

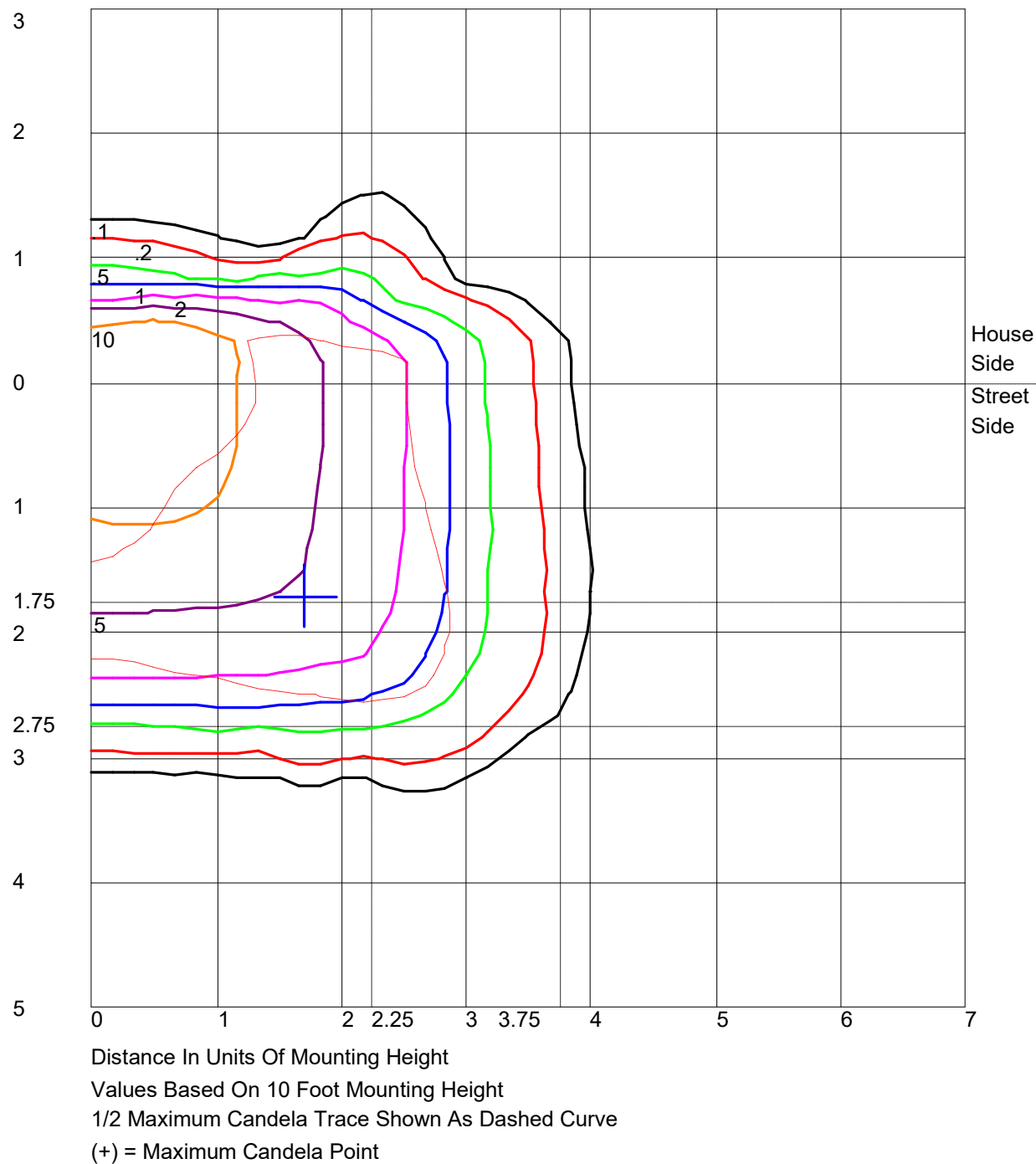
	Lumens	Percent Of Luminaire
Downward Street Side	8475.0	75.6
Downward House Side	2736.1	24.4
Downward Total	11211.1	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	11211.1	100.0

POLAR GRAPH

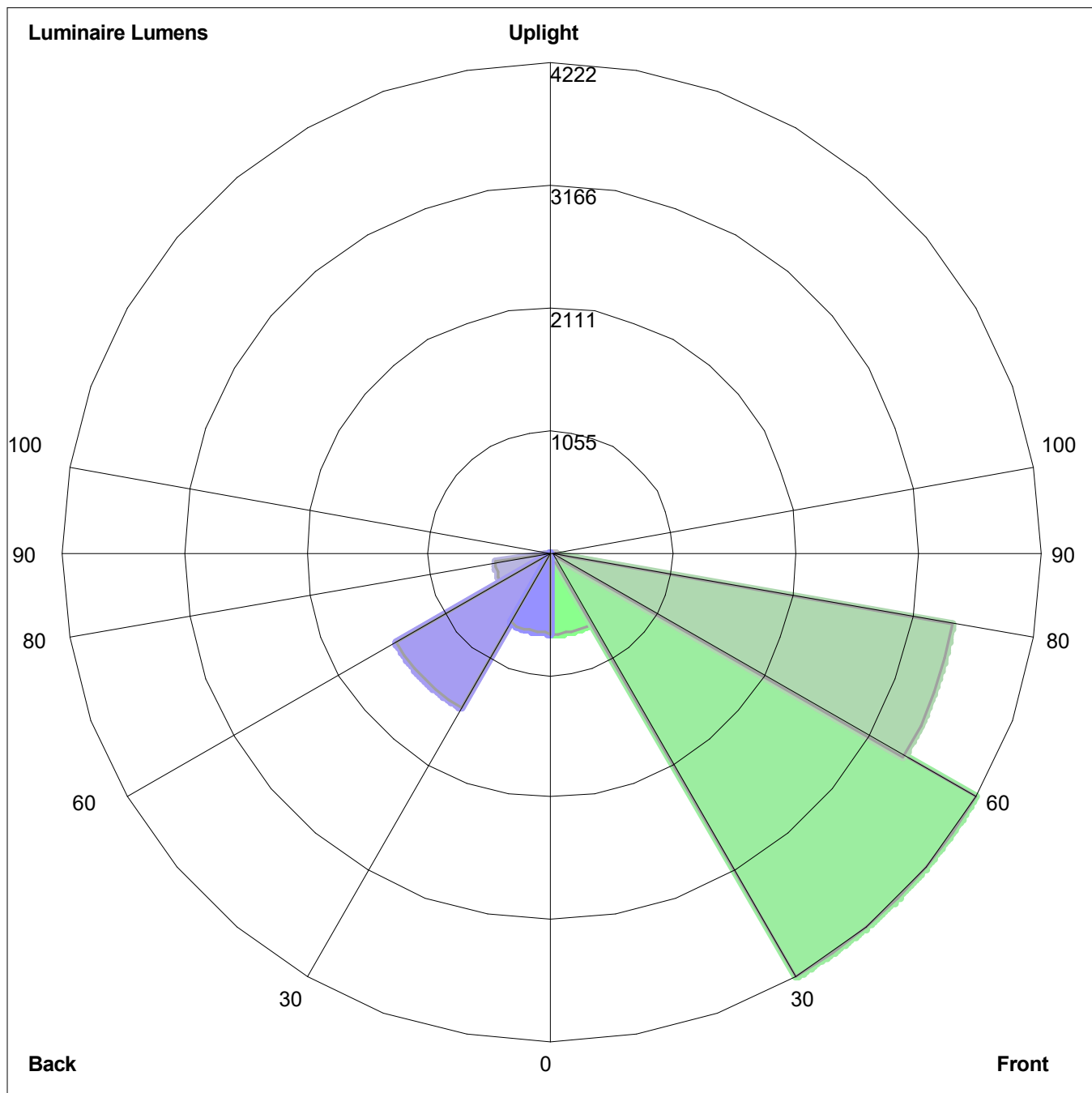


Maximum Candela = 8025 Located At Horizontal Angle = 45, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=702.5, Medium=4221.7, High=3512.7, Very High=38.0
Back: Low=694.7, Medium=1545.5, High=492.8, Very High=3.1
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G2