



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-SAX-5W-LED-18L-40-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-40-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	12263
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	82
Total Luminaire Watts	149
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	8778
Maximum Candela Angle	45H 67.5V
Maximum Candela (<90 Degrees Vertical)	8778
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	399 (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)	768.5	N.A.	6.3
FM - Front-Medium (30-60)	4618.0	N.A.	37.7
FH - Front-High (60-80)	3842.4	N.A.	31.3
FVH - Front-Very High (80-90)	41.6	N.A.	0.3
BL - Back-Low (0-30)	759.9	N.A.	6.2
BM - Back-Medium (30-60)	1690.5	N.A.	13.8
BH - Back-High (60-80)	539.0	N.A.	4.4
BVH - Back-Very High (80-90)	3.4	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	12263.3	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	1305	1305	1305	1305	1305	1305	1305	1305	1305	1305
2.5	1310	1291	1293	1290	1293	1298	1280	1293	1299	1293
5.0	1294	1272	1278	1279	1285	1288	1270	1291	1300	1306
7.5	1306	1288	1289	1292	1300	1303	1285	1307	1317	1331
10.0	1348	1325	1331	1335	1338	1346	1326	1349	1353	1363
12.5	1413	1396	1400	1406	1411	1415	1396	1415	1413	1422
15.0	1502	1489	1493	1507	1506	1514	1499	1507	1499	1504
17.5	1605	1591	1604	1629	1635	1641	1641	1629	1610	1599
20.0	1723	1718	1732	1773	1797	1801	1796	1775	1739	1715
22.5	1843	1844	1879	1932	1972	1991	1976	1951	1888	1848
25.0	1974	1972	2026	2121	2176	2198	2186	2152	2061	1983
27.5	2111	2116	2193	2316	2417	2428	2429	2361	2243	2133
30.0	2253	2267	2372	2532	2660	2677	2678	2592	2433	2303
32.5	2400	2431	2545	2740	2902	2925	2911	2833	2640	2495
35.0	2556	2580	2717	2946	3130	3195	3170	3070	2862	2680
37.5	2709	2750	2891	3148	3367	3454	3462	3319	3112	2887
40.0	2892	2930	3084	3361	3621	3713	3734	3583	3337	3115
42.5	3096	3134	3307	3589	3871	3967	3995	3855	3593	3347
45.0	3316	3358	3537	3816	4114	4234	4260	4114	3843	3608
47.5	3575	3612	3785	4060	4391	4488	4541	4386	4126	3876
50.0	3814	3863	4056	4310	4667	4795	4844	4674	4385	4138
52.5	4070	4145	4319	4600	4952	5103	5137	4961	4679	4459
55.0	4359	4445	4615	4890	5281	5444	5470	5276	5039	4800
57.5	4663	4735	4924	5220	5693	5910	5953	5712	5400	5145
60.0	4902	4976	5254	5641	6253	6572	6669	6218	5720	5357
62.5	5041	5090	5396	5961	6933	7390	7438	6762	5989	5478
65.0	4707	4776	5237	6008	7331	8202	8116	7147	6140	5589
67.5	3473	3495	4279	5489	7255	8778	8723	7654	6287	5420
70.0	1000	1021	1814	3771	6310	8723	8733	7520	5444	4154
72.5	287	291	397	846	3602	7135	7139	5944	3803	2571
75.0	128	132	150	270	773	3282	3805	3465	1958	1148
77.5	62	62	71	99	232	671	766	1230	850	496
80.0	47	47	48	58	92	160	181	302	399	238
82.5	44	44	46	52	64	78	80	107	183	191
85.0	36	36	38	44	55	64	66	77	102	157
87.5	24	24	26	30	35	44	47	56	80	99
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	1305	1305	1305	1305	1305	1305	1305	1305	1305	1305
2.5	1301	1306	1311	1305	1315	1319	1322	1326	1335	1336
5.0	1314	1322	1334	1338	1348	1360	1369	1377	1380	1390
7.5	1343	1358	1370	1384	1399	1416	1426	1434	1440	1444
10.0	1386	1406	1418	1441	1463	1485	1494	1500	1508	1504
12.5	1445	1466	1483	1518	1550	1571	1574	1583	1574	1573
15.0	1520	1545	1567	1602	1646	1668	1670	1675	1658	1647
17.5	1609	1635	1660	1714	1759	1783	1794	1786	1752	1719
20.0	1720	1735	1766	1827	1882	1922	1931	1902	1848	1790
22.5	1838	1855	1894	1966	2035	2083	2084	2047	1951	1840
25.0	1965	1993	2023	2102	2193	2246	2241	2165	1955	1720
27.5	2103	2126	2154	2260	2359	2422	2402	2175	1735	1379

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CANDELA TABULATION - (Cont.)

30.0	2255	2278	2311	2417	2549	2624	2504	1962	1336	951
32.5	2428	2450	2486	2602	2755	2817	2412	1550	905	578
35.0	2606	2618	2661	2784	2957	2940	2078	1091	555	352
37.5	2800	2803	2860	2995	3158	2892	1606	688	338	237
40.0	3013	3019	3065	3209	3362	2604	1109	408	229	185
42.5	3227	3239	3278	3446	3540	2095	694	257	175	151
45.0	3458	3477	3533	3695	3557	1526	398	187	143	128
47.5	3708	3734	3794	3964	3353	995	246	144	121	104
50.0	3996	4009	4075	4245	2896	592	172	119	97	80
52.5	4325	4364	4391	4532	2229	342	127	95	73	56
55.0	4656	4679	4728	4759	1544	205	102	72	49	35
57.5	4925	4967	5025	4767	1036	133	78	49	29	16
60.0	5086	5104	5169	4348	745	100	57	30	13	4
62.5	5134	5146	5191	3456	623	90	38	13	4	1
65.0	5194	5208	5220	2333	590	131	22	4	1	0
67.5	4894	4879	4908	1372	559	202	11	3	1	0
70.0	3485	3431	3488	649	433	259	12	3	2	1
72.5	2011	1846	1877	228	207	225	8	3	1	0
75.0	807	760	749	99	76	95	4	1	0	0
77.5	354	323	284	49	27	36	1	0	0	0
80.0	188	164	120	23	10	11	0	0	0	0
82.5	136	114	68	6	4	4	0	0	0	0
85.0	92	69	28	1	0	1	0	0	0	0
87.5	52	20	1	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

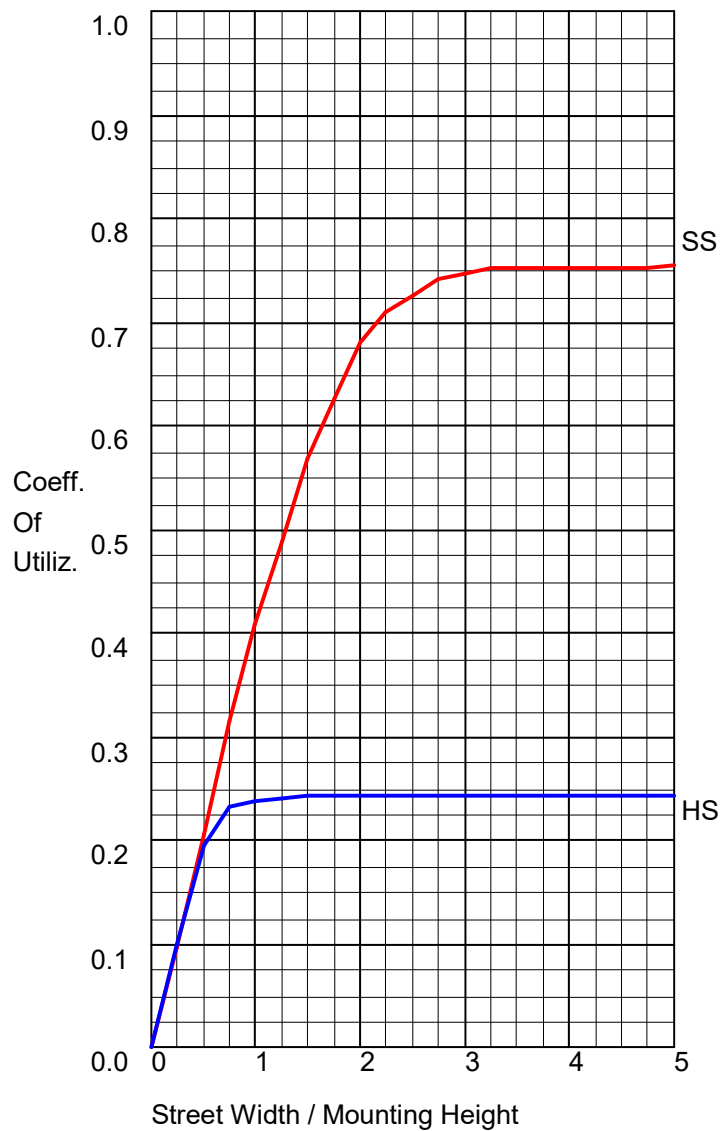
	<u>175.0</u>	<u>180.0</u>
0.0	1305	1305
2.5	1337	1334
5.0	1391	1385
7.5	1443	1444
10.0	1500	1512
12.5	1564	1569
15.0	1636	1631
17.5	1703	1703
20.0	1757	1761
22.5	1756	1749
25.0	1573	1553
27.5	1184	1161
30.0	771	749
32.5	468	455
35.0	288	287
37.5	210	209
40.0	169	165
42.5	143	141
45.0	121	118
47.5	97	95
50.0	73	71
52.5	49	47
55.0	28	27
57.5	11	11
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

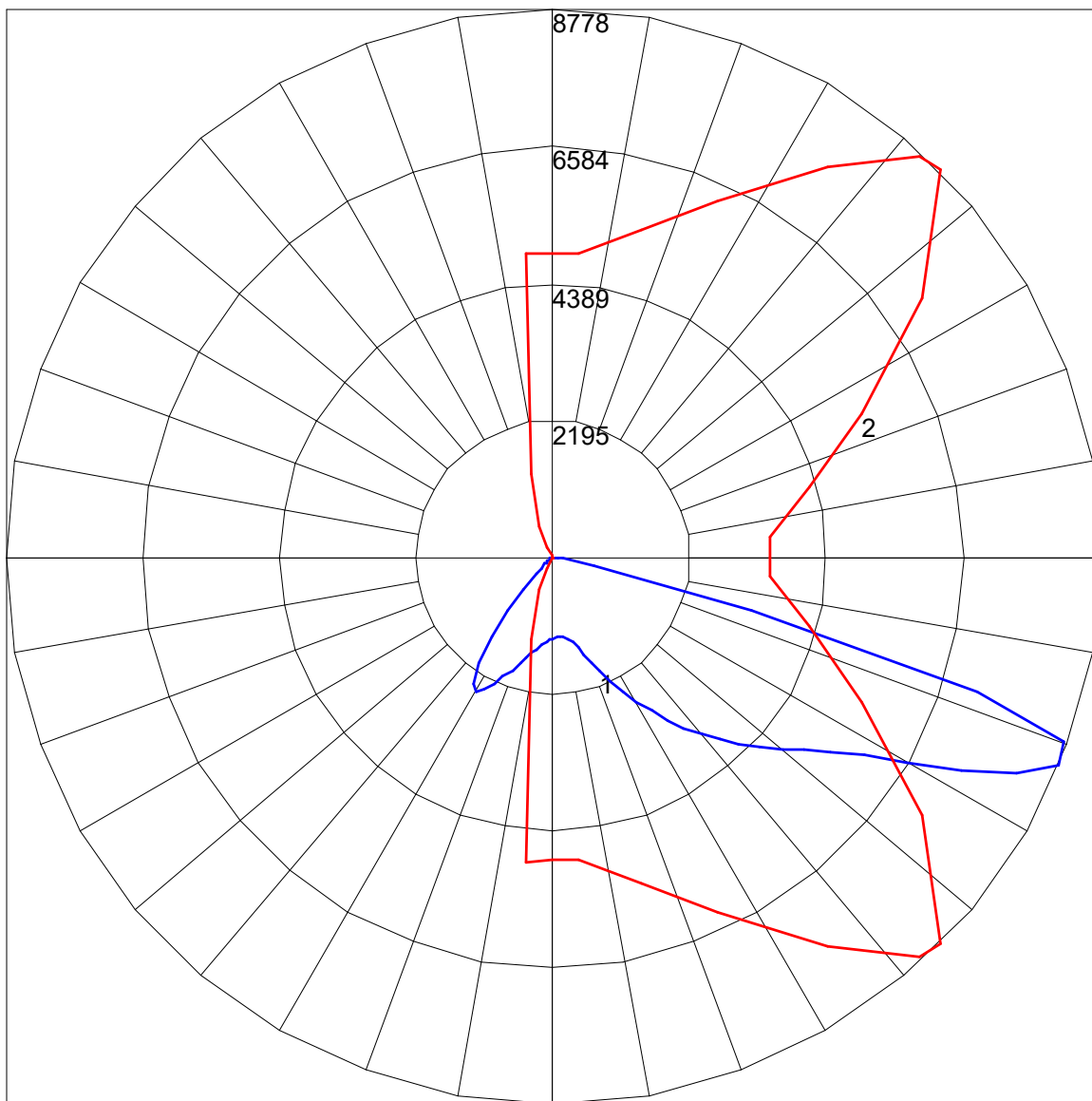
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

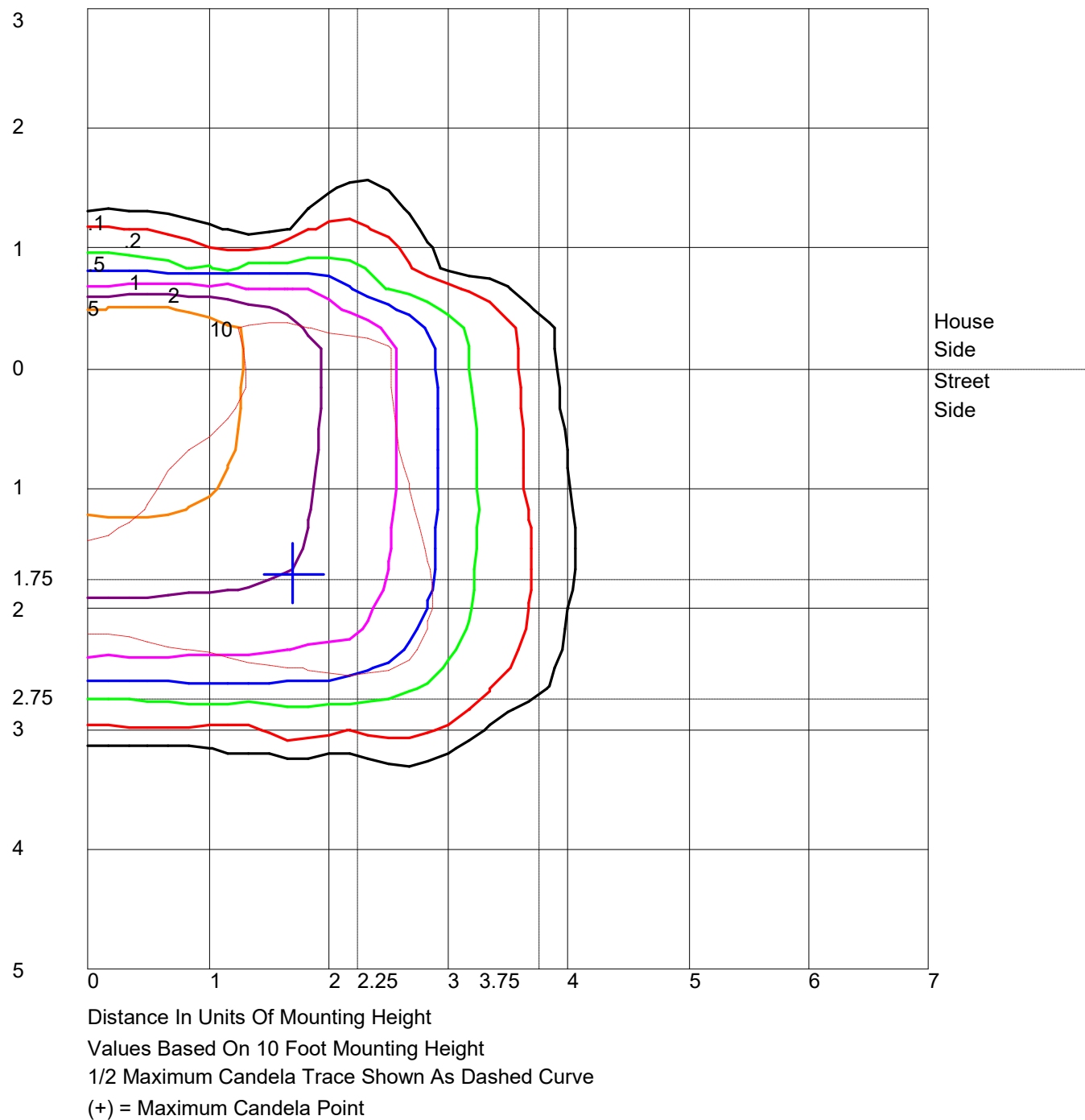
	Lumens	Percent Of Luminaire
Downward Street Side	9270.4	75.6
Downward House Side	2992.8	24.4
Downward Total	12263.2	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	12263.2	100.0

POLAR GRAPH

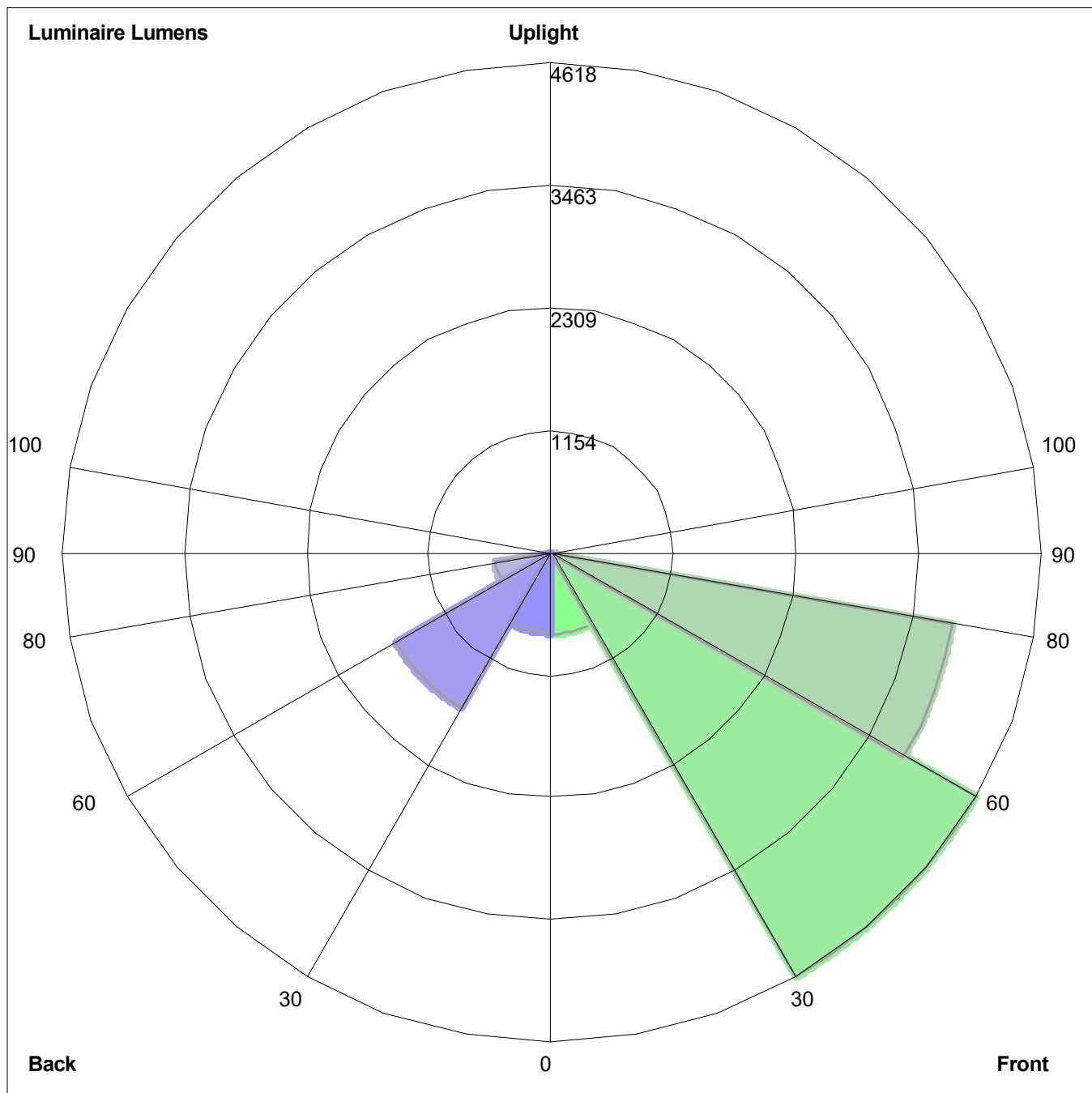


Maximum Candela = 8778 Located At Horizontal Angle = 45, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=768.5, Medium= 4618.0, High=3842.4, Very High=41.6
Back: Low=759.9, Medium=1690.5, High=539.0, Very High=3.4
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G2