



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-SAX-5W-LED-18L-50-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
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] ENM4-SAX-5W-LED-18L-50-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	12876
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	86
Total Luminaire Watts	149
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	9217
Maximum Candela Angle	45H 67.5V
Maximum Candela (<90 Degrees Vertical)	9217
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	419 (3.3% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : ENM4-SAX-5W-LED-18L-50-IL.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	806.9	N.A.	6.3
FM - Front-Medium (30-60)	4848.8	N.A.	37.7
FH - Front-High (60-80)	4034.5	N.A.	31.3
FVH - Front-Very High (80-90)	43.6	N.A.	0.3
BL - Back-Low (0-30)	797.9	N.A.	6.2
BM - Back-Medium (30-60)	1775.0	N.A.	13.8
BH - Back-High (60-80)	565.9	N.A.	4.4
BVH - Back-Very High (80-90)	3.6	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	12876.2	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	1370	1370	1370	1370	1370	1370	1370	1370	1370	1370
2.5	1375	1356	1358	1354	1358	1363	1344	1358	1364	1358
5.0	1359	1336	1342	1343	1349	1352	1333	1356	1365	1371
7.5	1371	1352	1353	1357	1365	1368	1349	1372	1383	1398
10.0	1415	1391	1398	1402	1405	1413	1392	1416	1421	1431
12.5	1484	1466	1470	1476	1482	1486	1466	1486	1484	1493
15.0	1577	1563	1568	1582	1581	1590	1574	1582	1574	1579
17.5	1685	1671	1684	1710	1717	1723	1723	1710	1690	1679
20.0	1809	1804	1819	1862	1887	1891	1886	1864	1826	1801
22.5	1935	1936	1973	2029	2071	2091	2075	2049	1982	1940
25.0	2073	2071	2127	2227	2285	2308	2295	2260	2164	2082
27.5	2217	2222	2303	2432	2538	2549	2550	2479	2355	2240
30.0	2366	2380	2491	2659	2793	2811	2812	2722	2555	2418
32.5	2520	2553	2672	2877	3047	3071	3057	2975	2772	2620
35.0	2684	2709	2853	3093	3286	3355	3328	3223	3005	2814
37.5	2844	2887	3036	3305	3535	3627	3635	3485	3268	3031
40.0	3037	3076	3238	3529	3802	3899	3921	3762	3504	3271
42.5	3251	3291	3472	3768	4065	4165	4195	4048	3773	3514
45.0	3482	3526	3714	4007	4320	4446	4473	4320	4035	3788
47.5	3754	3793	3974	4263	4611	4712	4768	4605	4332	4070
50.0	4005	4056	4259	4525	4900	5035	5086	4908	4604	4345
52.5	4273	4352	4535	4830	5200	5358	5394	5209	4913	4682
55.0	4577	4667	4846	5134	5545	5716	5743	5540	5291	5040
57.5	4896	4972	5170	5481	5978	6205	6251	5998	5670	5402
60.0	5147	5225	5517	5923	6566	6901	7002	6529	6006	5625
62.5	5293	5344	5666	6259	7280	7759	7810	7100	6288	5752
65.0	4942	5015	5499	6308	7698	8612	8522	7504	6447	5868
67.5	3647	3670	4493	5763	7618	9217	9159	8037	6601	5691
70.0	1050	1072	1905	3960	6625	9159	9170	7896	5716	4362
72.5	301	306	417	888	3782	7492	7496	6241	3993	2700
75.0	134	139	157	283	812	3446	3995	3638	2056	1205
77.5	65	65	75	104	244	705	804	1291	892	521
80.0	49	49	50	61	97	168	190	317	419	250
82.5	46	46	48	55	67	82	84	112	192	201
85.0	38	38	40	46	58	67	69	81	107	165
87.5	25	25	27	31	37	46	49	59	84	104
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	1370	1370	1370	1370	1370	1370	1370	1370	1370	1370
2.5	1366	1371	1377	1370	1381	1385	1388	1392	1402	1403
5.0	1380	1388	1401	1405	1415	1428	1437	1446	1449	1459
7.5	1410	1426	1438	1453	1469	1487	1497	1506	1512	1516
10.0	1455	1476	1489	1513	1536	1559	1569	1575	1583	1579
12.5	1517	1539	1557	1594	1627	1650	1653	1662	1653	1652
15.0	1596	1622	1645	1682	1728	1751	1753	1759	1741	1729
17.5	1689	1717	1743	1800	1847	1872	1884	1875	1840	1805
20.0	1806	1822	1854	1918	1976	2018	2028	1997	1940	1879
22.5	1930	1948	1989	2064	2137	2187	2188	2149	2049	1932
25.0	2063	2093	2124	2207	2303	2358	2353	2273	2053	1806
27.5	2208	2232	2262	2373	2477	2543	2522	2284	1822	1448

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CANDELA TABULATION - (Cont.)

30.0	2368	2392	2427	2538	2676	2755	2629	2060	1403	999
32.5	2549	2572	2610	2732	2893	2958	2533	1627	950	607
35.0	2736	2749	2794	2923	3105	3087	2182	1146	583	370
37.5	2940	2943	3003	3145	3316	3037	1686	722	355	249
40.0	3164	3170	3218	3369	3530	2734	1164	428	240	194
42.5	3388	3401	3442	3618	3717	2200	729	270	184	159
45.0	3631	3651	3710	3880	3735	1602	418	196	150	134
47.5	3893	3921	3984	4162	3521	1045	258	151	127	109
50.0	4196	4209	4279	4457	3041	622	181	125	102	84
52.5	4541	4582	4611	4759	2340	359	133	100	77	59
55.0	4889	4913	4964	4997	1621	215	107	76	51	37
57.5	5171	5215	5276	5005	1088	140	82	51	30	17
60.0	5340	5359	5427	4565	782	105	60	31	14	4
62.5	5391	5403	5451	3629	654	94	40	14	4	1
65.0	5454	5468	5481	2450	619	138	23	4	1	0
67.5	5139	5123	5153	1441	587	212	12	3	1	0
70.0	3659	3603	3662	681	455	272	13	3	2	1
72.5	2112	1938	1971	239	217	236	8	3	1	0
75.0	847	798	786	104	80	100	4	1	0	0
77.5	372	339	298	51	28	38	1	0	0	0
80.0	197	172	126	24	10	12	0	0	0	0
82.5	143	120	71	6	4	4	0	0	0	0
85.0	97	72	29	1	0	1	0	0	0	0
87.5	55	21	1	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

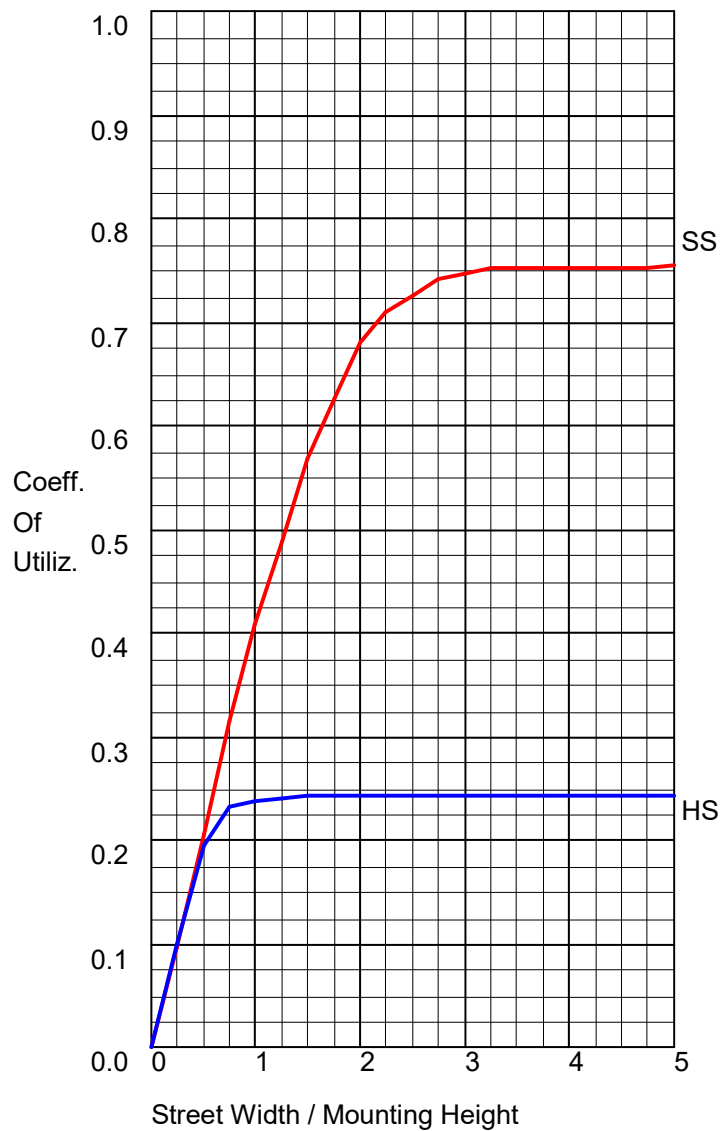
	<u>175.0</u>	<u>180.0</u>
0.0	1370	1370
2.5	1404	1401
5.0	1461	1454
7.5	1515	1516
10.0	1575	1588
12.5	1642	1647
15.0	1718	1713
17.5	1788	1788
20.0	1845	1849
22.5	1844	1836
25.0	1652	1631
27.5	1243	1219
30.0	810	786
32.5	491	478
35.0	302	301
37.5	220	219
40.0	177	173
42.5	150	148
45.0	127	124
47.5	102	100
50.0	77	75
52.5	51	49
55.0	29	28
57.5	12	12
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

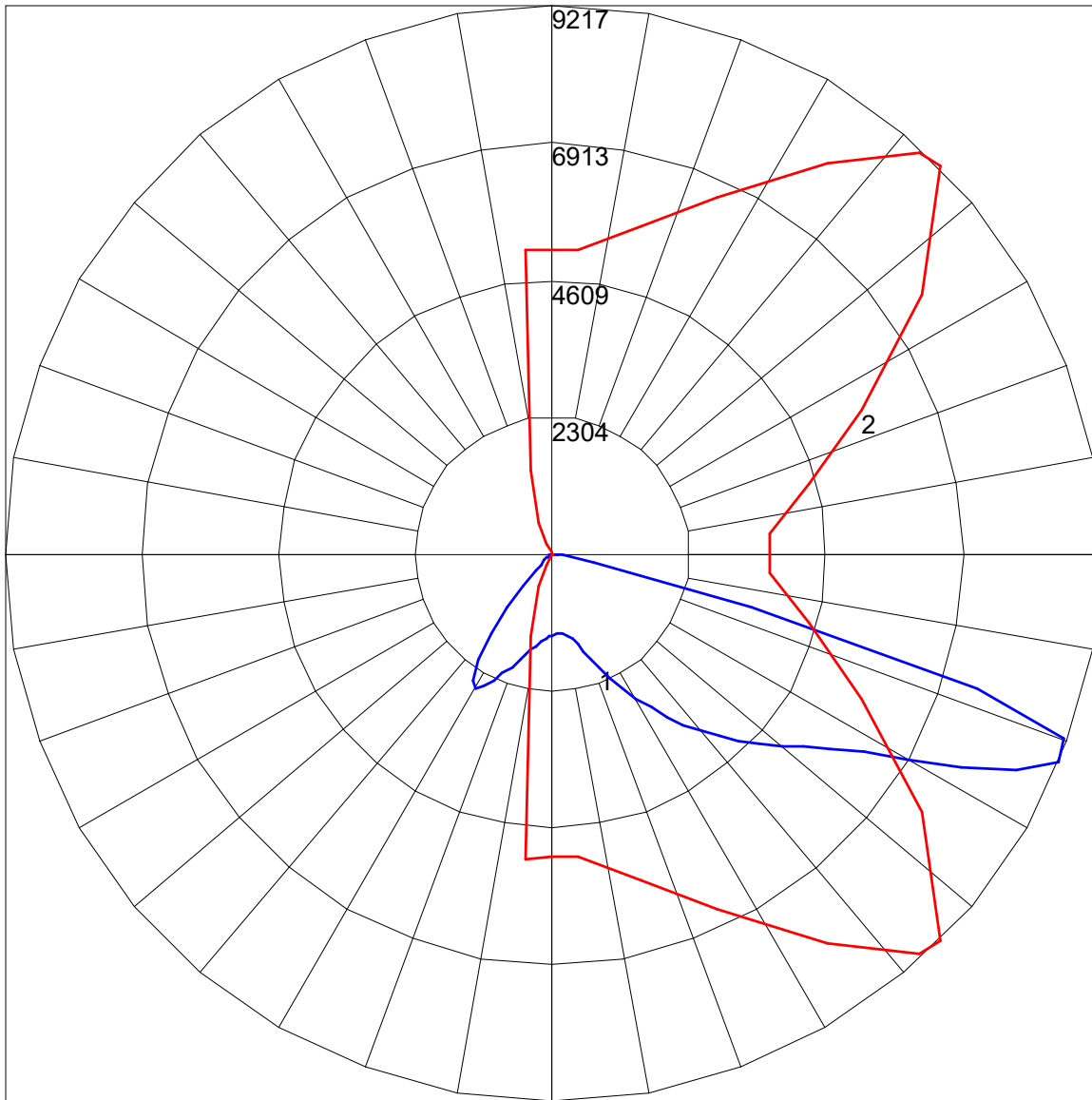
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

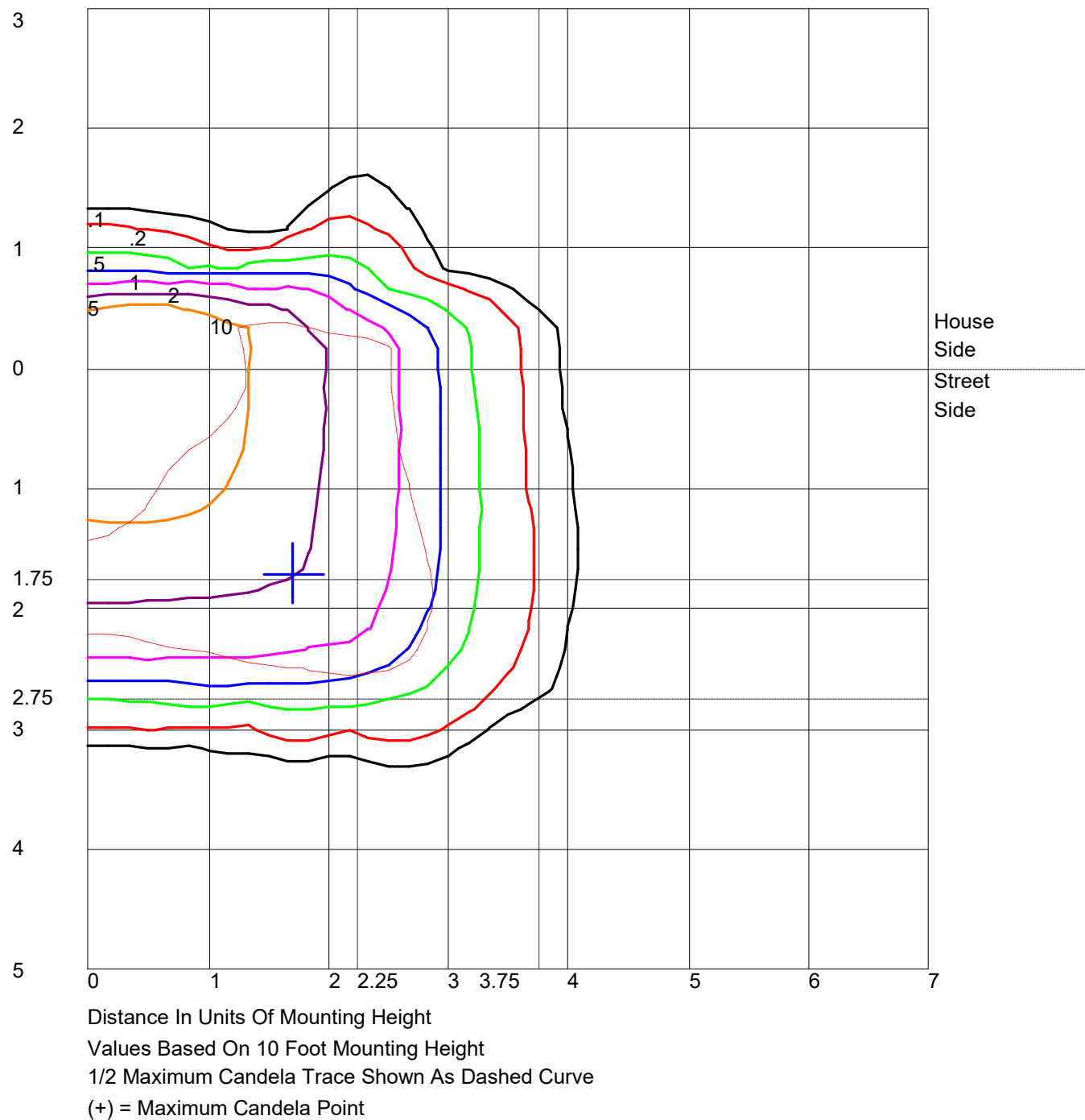
	Lumens	Percent Of Luminaire
Downward Street Side	9733.9	75.6
Downward House Side	3142.3	24.4
Downward Total	12876.2	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	12876.2	100.0

POLAR GRAPH

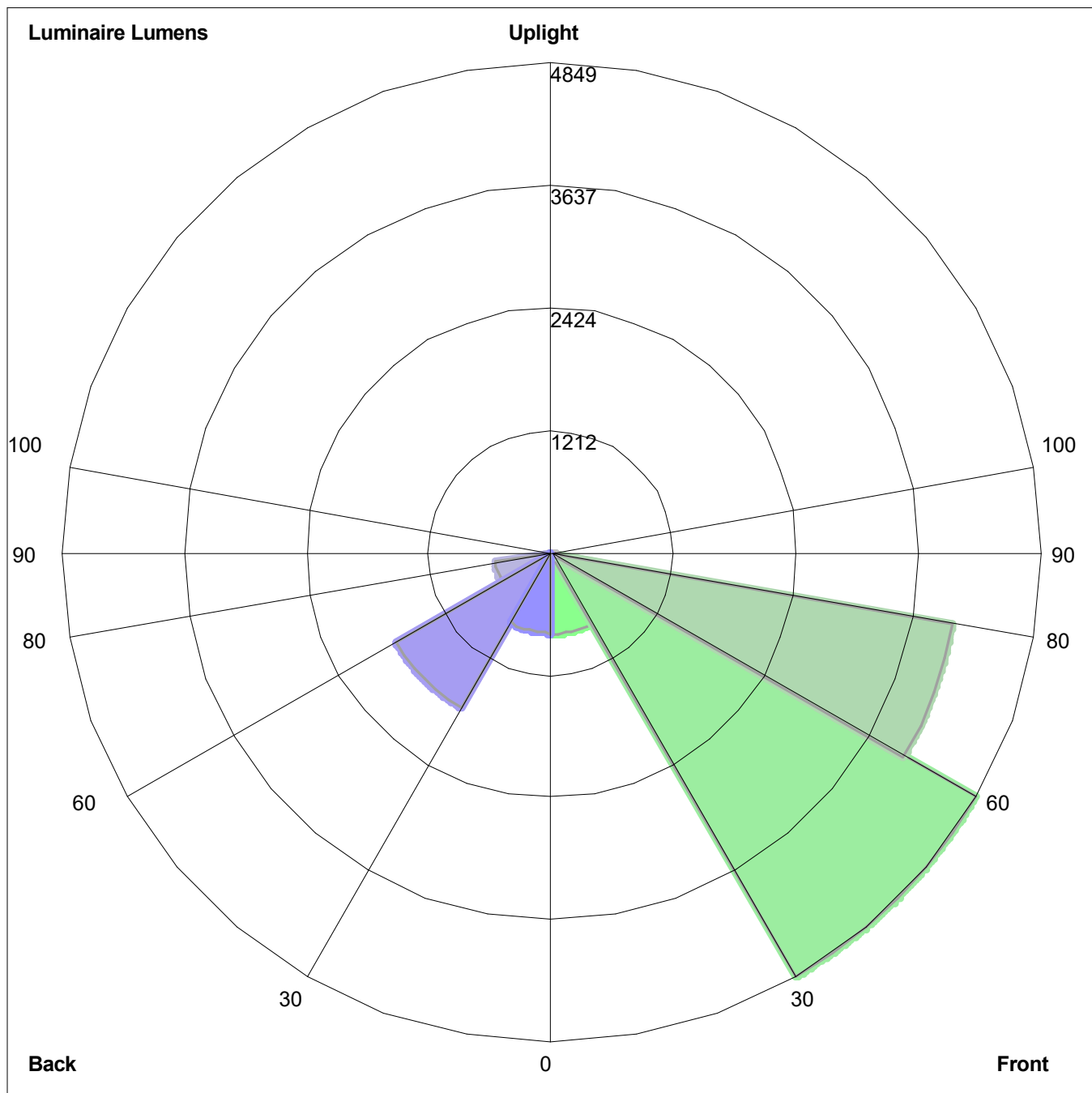


Maximum Candela = 9217 Located At Horizontal Angle = 45, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=806.9, Medium=4848.8, High=4034.5, Very High=43.6
Back: Low=797.9, Medium= 1775.0, High=565.9, Very High=3.6
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G2