



IES ROAD REPORT

PHOTOMETRIC FILENAME : VALS-09L-3M-30K8-IS.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-15009
[TESTLAB] LSI INDUSTRIES, INC.
[TESTDATE] 08/23/24
[ISSUE DATE] 09/23/24
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] VALS-09L-3M-30K8-IS
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[TEST PROCEDURE] IESNA LM-79-19
[FACTORED] SCALED FROM ORIGINAL TEST DATA
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor
[SEARCH_COLORTEMP] 3000

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5843
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	54
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	4704
Maximum Candela Angle	0H 57.5V
Maximum Candela (<90 Degrees Vertical)	4704
Maximum Candela Angle (<90 Degrees Vertical)	0H 57.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	2114 (36.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)



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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	422.7	N.A.	7.2
FM - Front-Medium (30-60)	2832.6	N.A.	48.5
FH - Front-High (60-80)	2254.5	N.A.	38.6
FVH - Front-Very High (80-90)	167.1	N.A.	2.9
BL - Back-Low (0-30)	22.5	N.A.	0.4
BM - Back-Medium (30-60)	65.2	N.A.	1.1
BH - Back-High (60-80)	75.9	N.A.	1.3
BVH - Back-Very High (80-90)	2.7	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	5843.2	N.A.	100.0
BUG Rating	B0-U0-G2		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>2.5</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>
0.0	161	161	161	161	161	161	161	161	161	161
2.5	220	227	221	224	217	212	199	192	183	176
5.0	402	413	402	399	375	349	305	269	231	200
7.5	628	637	625	615	573	522	445	372	302	233
10.0	845	851	850	825	766	697	606	497	391	285
12.5	1009	1011	1008	984	922	859	764	652	501	354
15.0	1153	1142	1139	1110	1043	985	908	799	627	437
17.5	1272	1260	1256	1221	1151	1098	1036	939	760	529
20.0	1381	1370	1365	1321	1249	1208	1150	1061	897	634
22.5	1487	1475	1474	1422	1355	1318	1260	1174	1026	743
25.0	1586	1578	1571	1515	1454	1423	1369	1286	1144	858
27.5	1684	1675	1667	1609	1557	1526	1475	1394	1253	973
30.0	1813	1804	1793	1717	1655	1628	1580	1500	1354	1085
32.5	1989	1987	1965	1869	1775	1727	1683	1605	1449	1195
35.0	2213	2212	2183	2060	1930	1847	1786	1708	1549	1290
37.5	2471	2468	2431	2276	2112	1989	1894	1816	1647	1377
40.0	2757	2752	2722	2521	2324	2160	2024	1929	1741	1458
42.5	3084	3075	3035	2789	2561	2355	2176	2053	1843	1539
45.0	3427	3385	3335	3051	2801	2557	2344	2188	1961	1628
47.5	3700	3660	3609	3325	3050	2763	2514	2324	2087	1740
50.0	3928	3888	3856	3618	3365	3016	2712	2469	2224	1874
52.5	4163	4121	4093	3891	3704	3323	2926	2624	2366	2033
55.0	4416	4383	4347	4175	4031	3673	3181	2802	2511	2203
57.5	4704	4677	4669	4408	4238	3946	3456	2996	2657	2379
60.0	4630	4551	4627	4468	4285	4011	3633	3149	2759	2508
62.5	4316	4277	4255	4200	4096	3810	3538	3109	2680	2442
65.0	3590	3507	3458	3425	3590	3323	3063	2727	2324	2220
67.5	2240	2285	2255	2294	2696	2729	2502	2295	2108	2252
70.0	1282	1329	1323	1422	1846	2255	2290	2538	2490	2671
72.5	697	729	716	812	1185	1715	2260	3242	3051	3017
75.0	423	438	433	431	669	1140	1990	3595	3125	2526
77.5	266	270	262	214	321	670	1573	3120	2436	1703
80.0	137	137	137	128	144	353	1227	2114	1505	1012
82.5	104	101	97	76	88	234	812	1235	879	578
85.0	65	62	60	48	67	130	415	606	491	311
87.5	29	27	27	27	40	65	128	217	199	148
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	161	161	161	161	161	161	161	161	161	161
2.5	167	161	158	150	143	135	126	121	117	116
5.0	170	155	144	126	113	101	90	82	77	74
7.5	178	154	136	109	90	75	62	53	48	45
10.0	199	164	138	101	75	57	45	39	35	33
12.5	230	181	146	96	66	46	36	32	30	29
15.0	268	202	155	93	56	39	32	28	25	25
17.5	312	226	164	88	48	32	28	25	22	20
20.0	360	251	173	82	40	29	25	21	18	17
22.5	411	277	183	77	35	26	22	18	16	14
25.0	466	304	191	70	31	24	19	16	13	11
27.5	522	328	197	63	29	22	18	14	11	10

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CANDELA TABULATION - (Cont.)

30.0	581	353	202	56	27	20	16	12	9	7
32.5	637	376	207	51	25	19	15	11	7	6
35.0	694	399	211	46	24	18	13	10	6	4
37.5	753	424	215	46	23	17	12	9	5	4
40.0	816	452	225	46	23	16	11	7	4	2
42.5	888	488	239	51	23	16	11	6	3	1
45.0	971	533	259	54	24	15	10	5	2	1
47.5	1072	593	289	60	25	16	9	4	2	1
50.0	1199	672	333	64	26	16	7	3	1	0
52.5	1342	762	378	66	28	15	5	2	1	0
55.0	1513	873	425	65	28	13	4	2	0	0
57.5	1726	1002	474	60	25	11	4	1	0	0
60.0	1895	1055	518	51	21	7	3	1	0	0
62.5	1844	1056	556	40	17	5	3	0	0	0
65.0	1778	1216	601	29	12	4	2	0	0	0
67.5	2095	1486	655	20	8	4	1	0	0	0
70.0	2512	1713	628	15	5	3	0	0	0	0
72.5	2589	1657	487	11	4	2	0	0	0	0
75.0	1904	1146	276	8	3	1	0	0	0	0
77.5	1137	656	131	5	2	1	0	0	0	0
80.0	612	342	60	4	3	2	0	0	0	0
82.5	328	174	19	3	2	2	0	0	0	0
85.0	164	74	4	3	2	2	1	0	0	0
87.5	79	25	3	3	3	2	1	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

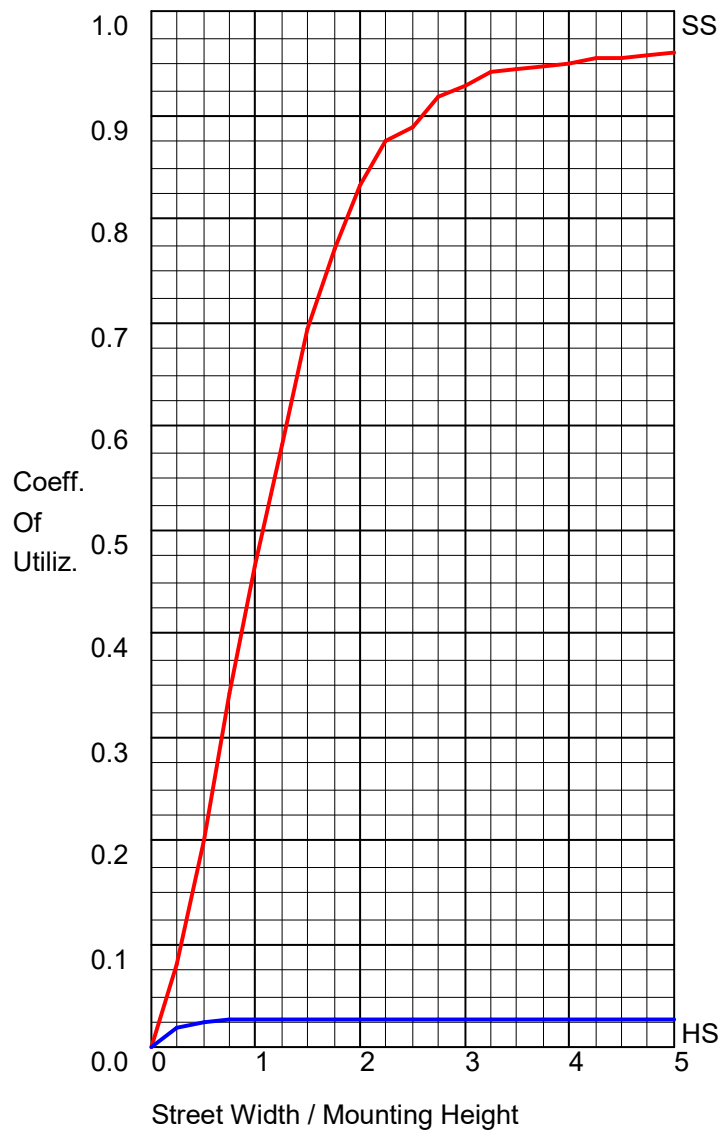
	<u>175.0</u>	<u>180.0</u>
0.0	161	161
2.5	116	116
5.0	73	73
7.5	44	44
10.0	32	32
12.5	28	28
15.0	24	24
17.5	20	20
20.0	17	17
22.5	14	14
25.0	11	11
27.5	9	9
30.0	7	7
32.5	5	5
35.0	4	4
37.5	3	3
40.0	2	2
42.5	1	1
45.0	0	0
47.5	0	0
50.0	0	0
52.5	0	0
55.0	0	0
57.5	0	0
60.0	0	0
62.5	0	0
65.0	0	0

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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

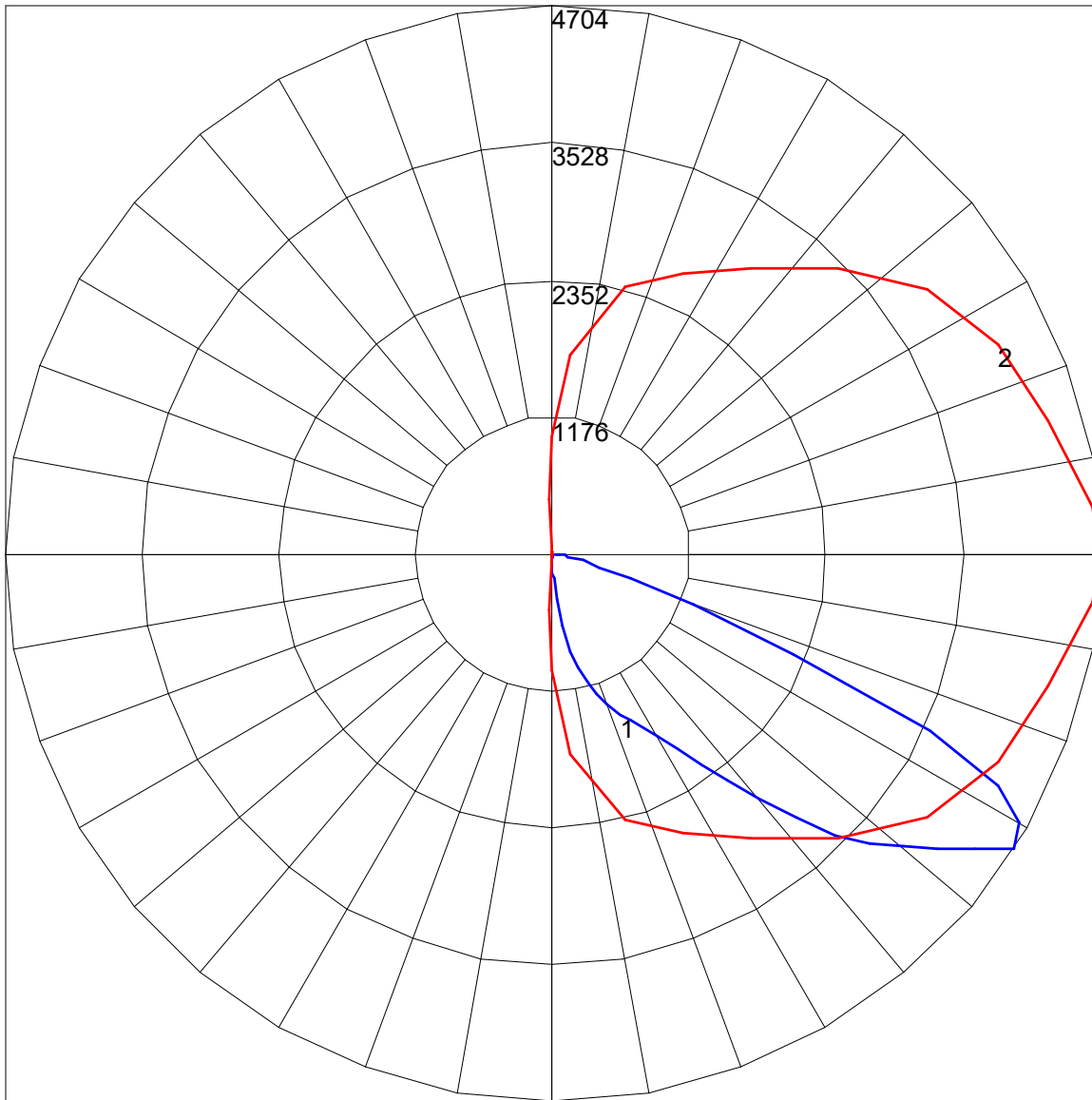
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

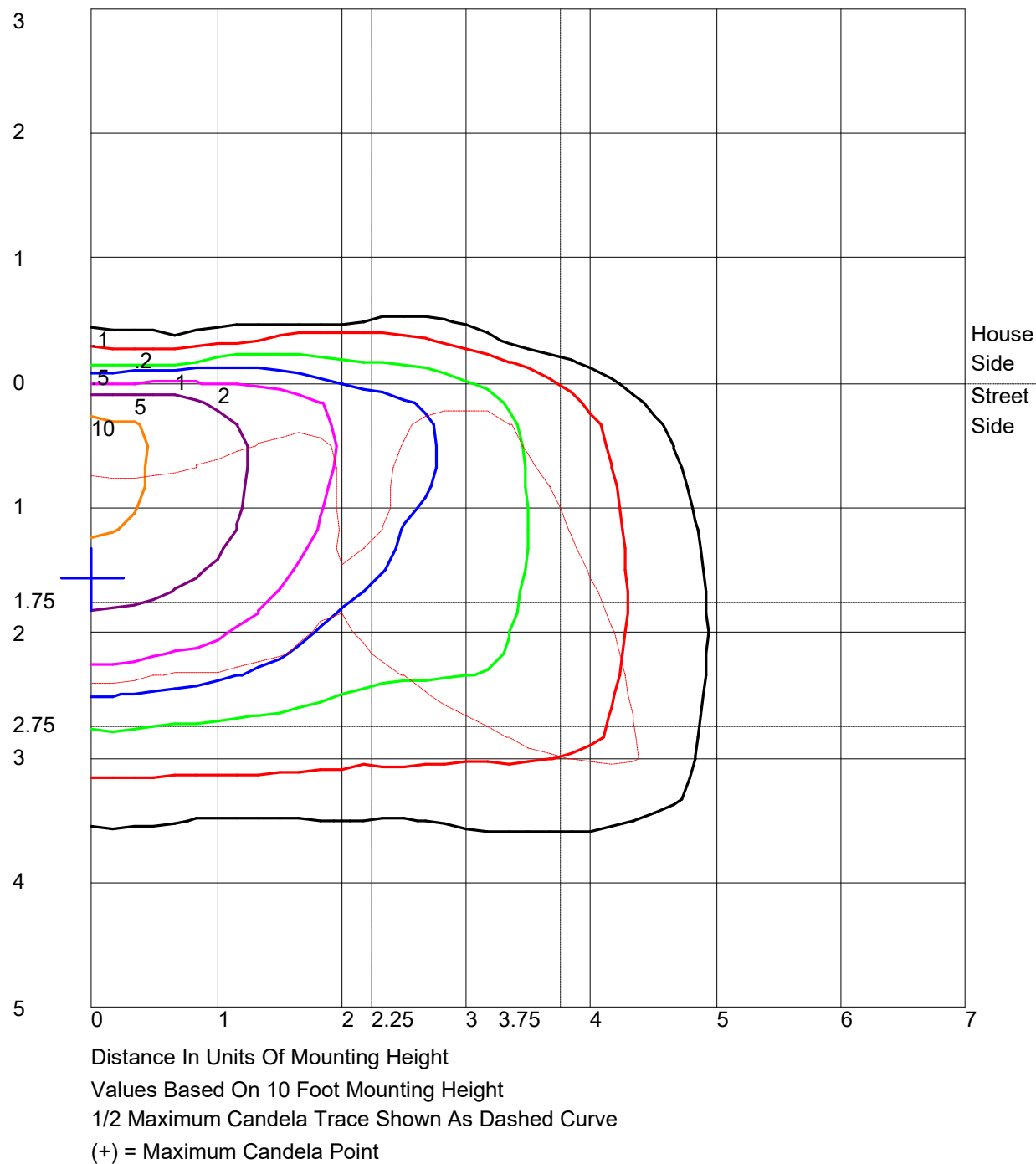
	Lumens	Percent Of Luminaire
Downward Street Side	5676.9	97.2
Downward House Side	166.4	2.8
Downward Total	5843.3	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	5843.3	100.0

POLAR GRAPH

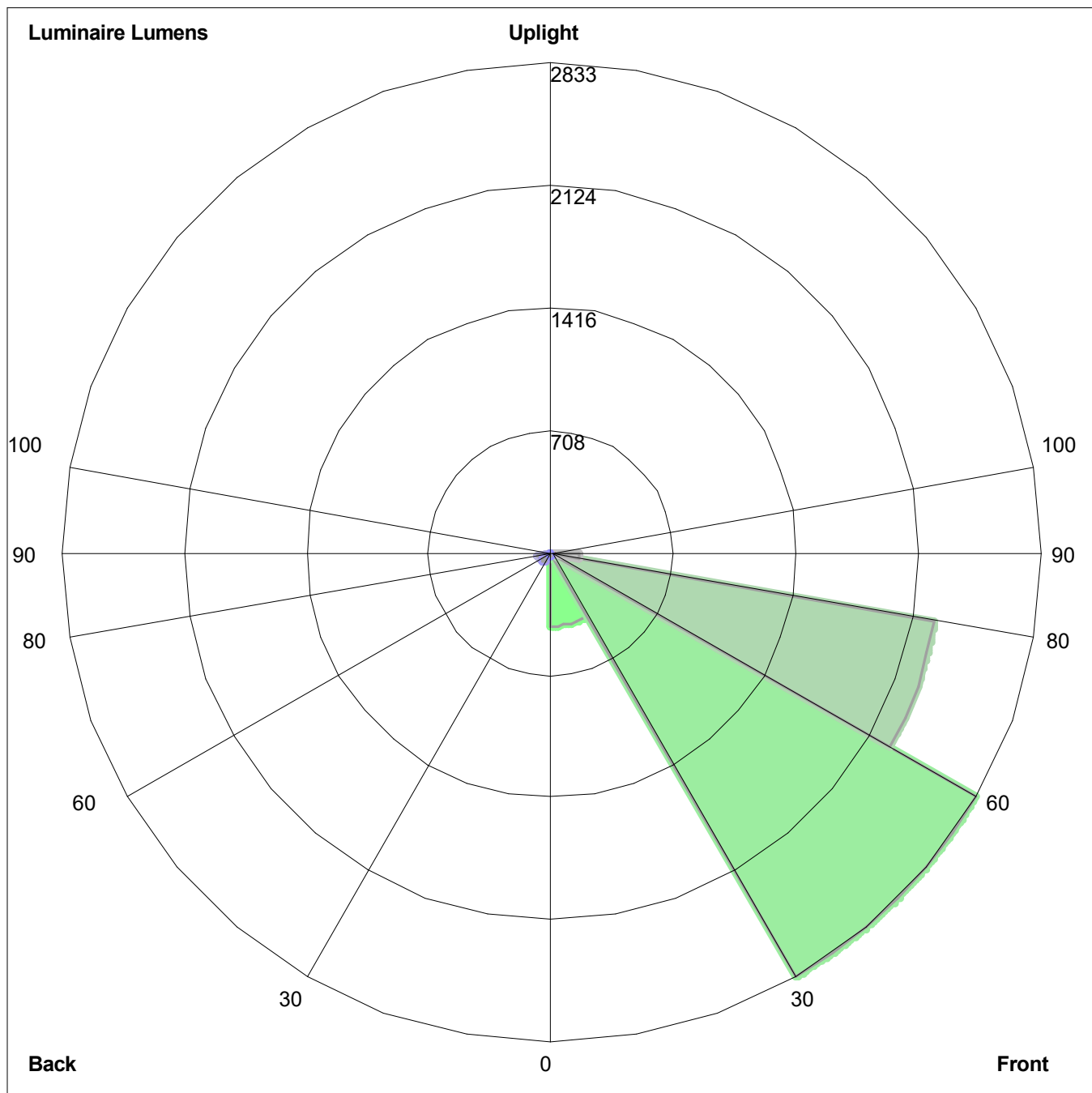


Maximum Candela = 4704 Located At Horizontal Angle = 0, Vertical Angle = 57.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (57.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=422.7, Medium=2832.6, High=2254.5, Very High=167.1
Back: Low=22.5, Medium=65.2, High=75.9, Very High=2.7
Uplight: Low=0.0, High=0.0

BUG Rating : B0-U0-G2