



## IES ROAD REPORT

PHOTOMETRIC FILENAME : VALS-18L-3M-30K8-IS.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] LED-15009  
[TESTLAB] LSI INDUSTRIES, INC.  
[TESTDATE] 08/23/24  
[ISSUEDATE] 09/23/24  
[MANUFAC] LSI INDUSTRIES, INC.  
[LUMCAT] VALS-18L-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	11660
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	111
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	9386
Maximum Candela Angle	0H 57.5V
Maximum Candela (<90 Degrees Vertical)	9386
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	4220 (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)	843.5	N.A.	7.2
FM - Front-Medium (30-60)	5652.2	N.A.	48.5
FH - Front-High (60-80)	4498.6	N.A.	38.6
FVH - Front-Very High (80-90)	333.4	N.A.	2.9
BL - Back-Low (0-30)	44.9	N.A.	0.4
BM - Back-Medium (30-60)	130.1	N.A.	1.1
BH - Back-High (60-80)	151.5	N.A.	1.3
BVH - Back-Very High (80-90)	5.4	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	11659.6	N.A.	100.0
BUG Rating	B1-U0-G3		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u><b>0.0</b></u>	<u><b>2.5</b></u>	<u><b>5.0</b></u>	<u><b>15.0</b></u>	<u><b>25.0</b></u>	<u><b>35.0</b></u>	<u><b>45.0</b></u>	<u><b>55.0</b></u>	<u><b>65.0</b></u>	<u><b>75.0</b></u>
<b>0.0</b>	321	321	321	321	321	321	321	321	321	321
<b>2.5</b>	438	452	439	447	433	422	397	382	365	351
<b>5.0</b>	802	823	802	797	749	697	610	536	461	399
<b>7.5</b>	1253	1272	1247	1228	1144	1041	887	742	602	465
<b>10.0</b>	1687	1699	1695	1646	1529	1391	1209	992	781	569
<b>12.5</b>	2013	2017	2012	1965	1840	1715	1524	1301	998	708
<b>15.0</b>	2302	2279	2272	2214	2082	1967	1811	1595	1252	872
<b>17.5</b>	2536	2514	2505	2435	2296	2191	2067	1873	1517	1056
<b>20.0</b>	2757	2734	2725	2638	2492	2409	2295	2118	1790	1265
<b>22.5</b>	2967	2943	2941	2838	2703	2631	2515	2344	2048	1483
<b>25.0</b>	3163	3148	3135	3023	2903	2839	2731	2565	2281	1711
<b>27.5</b>	3360	3343	3326	3212	3107	3045	2944	2781	2500	1942
<b>30.0</b>	3619	3598	3578	3426	3303	3248	3151	2993	2701	2165
<b>32.5</b>	3969	3966	3920	3729	3542	3444	3358	3202	2892	2384
<b>35.0</b>	4417	4414	4355	4110	3850	3686	3563	3409	3091	2574
<b>37.5</b>	4931	4924	4852	4542	4216	3969	3780	3623	3287	2746
<b>40.0</b>	5504	5492	5432	5032	4638	4310	4039	3849	3476	2910
<b>42.5</b>	6153	6136	6056	5566	5111	4699	4341	4096	3677	3072
<b>45.0</b>	6839	6754	6655	6086	5589	5103	4679	4366	3914	3248
<b>47.5</b>	7382	7302	7200	6633	6085	5513	5017	4637	4165	3472
<b>50.0</b>	7838	7760	7694	7219	6715	6020	5412	4927	4437	3740
<b>52.5</b>	8307	8223	8167	7764	7391	6631	5839	5237	4721	4055
<b>55.0</b>	8811	8747	8673	8332	8042	7329	6347	5591	5010	4396
<b>57.5</b>	9386	9332	9317	8795	8457	7873	6897	5979	5301	4746
<b>60.0</b>	9239	9081	9232	8916	8552	8004	7248	6285	5506	5004
<b>62.5</b>	8612	8533	8490	8381	8174	7602	7060	6204	5346	4874
<b>65.0</b>	7163	6996	6899	6835	7163	6631	6111	5441	4637	4430
<b>67.5</b>	4470	4559	4500	4577	5379	5445	4992	4580	4207	4494
<b>70.0</b>	2559	2653	2641	2837	3682	4500	4569	5064	4969	5329
<b>72.5</b>	1392	1454	1428	1621	2365	3423	4510	6470	6089	6022
<b>75.0</b>	844	874	864	859	1335	2275	3971	7172	6237	5041
<b>77.5</b>	531	539	522	425	641	1338	3138	6226	4861	3397
<b>80.0</b>	274	275	272	256	287	704	2449	4220	3002	2019
<b>82.5</b>	208	201	193	152	177	467	1620	2465	1755	1153
<b>85.0</b>	130	123	118	96	135	258	827	1210	980	620
<b>87.5</b>	58	54	53	54	81	130	254	434	397	294
<b>90.0</b>	0	0	0	0	0	0	0	0	0	0

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u><b>85.0</b></u>	<u><b>90.0</b></u>	<u><b>95.0</b></u>	<u><b>105.0</b></u>	<u><b>115.0</b></u>	<u><b>125.0</b></u>	<u><b>135.0</b></u>	<u><b>145.0</b></u>	<u><b>155.0</b></u>	<u><b>165.0</b></u>
<b>0.0</b>	321	321	321	321	321	321	321	321	321	321
<b>2.5</b>	334	322	315	298	284	269	252	242	234	230
<b>5.0</b>	340	310	287	252	225	201	179	165	153	147
<b>7.5</b>	354	307	271	217	181	151	124	108	95	89
<b>10.0</b>	396	326	276	201	151	115	89	76	69	66
<b>12.5</b>	459	361	291	193	131	92	73	64	60	57
<b>15.0</b>	535	404	309	185	113	76	63	56	51	49
<b>17.5</b>	621	451	327	175	95	65	55	49	44	41
<b>20.0</b>	718	501	346	165	81	58	49	42	38	34
<b>22.5</b>	821	552	366	153	70	53	43	37	32	28
<b>25.0</b>	931	606	381	140	61	47	39	32	26	23
<b>27.5</b>	1041	655	393	126	57	44	35	27	21	18

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**CANDELA TABULATION - (Cont.)**

30.0	1159	704	403	112	53	41	32	24	18	15
32.5	1271	750	412	101	51	38	29	21	15	12
35.0	1385	797	420	93	48	36	26	18	12	9
37.5	1502	845	431	90	46	33	25	17	11	6
40.0	1629	904	448	93	46	32	23	15	8	4
42.5	1771	975	477	101	46	31	21	13	5	3
45.0	1938	1063	517	109	48	31	19	11	4	2
47.5	2140	1184	577	118	50	31	17	7	3	1
50.0	2393	1342	664	127	53	31	14	5	3	1
52.5	2680	1521	753	131	55	30	11	4	2	0
55.0	3019	1742	849	130	55	26	8	4	1	0
57.5	3444	2000	946	119	51	20	7	3	0	0
60.0	3781	2106	1034	102	43	14	6	1	0	0
62.5	3679	2107	1109	81	33	11	4	1	0	0
65.0	3549	2427	1200	58	24	9	4	0	0	0
67.5	4181	2964	1306	41	16	7	2	0	0	0
70.0	5012	3417	1254	31	11	5	1	0	0	0
72.5	5167	3308	973	22	8	3	0	0	0	0
75.0	3801	2286	550	16	6	2	0	0	0	0
77.5	2268	1310	262	11	4	1	0	0	0	0
80.0	1221	682	118	9	4	3	1	0	0	0
82.5	655	347	39	5	4	3	1	0	0	0
85.0	327	148	8	4	4	3	1	0	0	0
87.5	158	50	6	5	4	4	3	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0

**Vert. Horizontal Angles**  
**Angles**

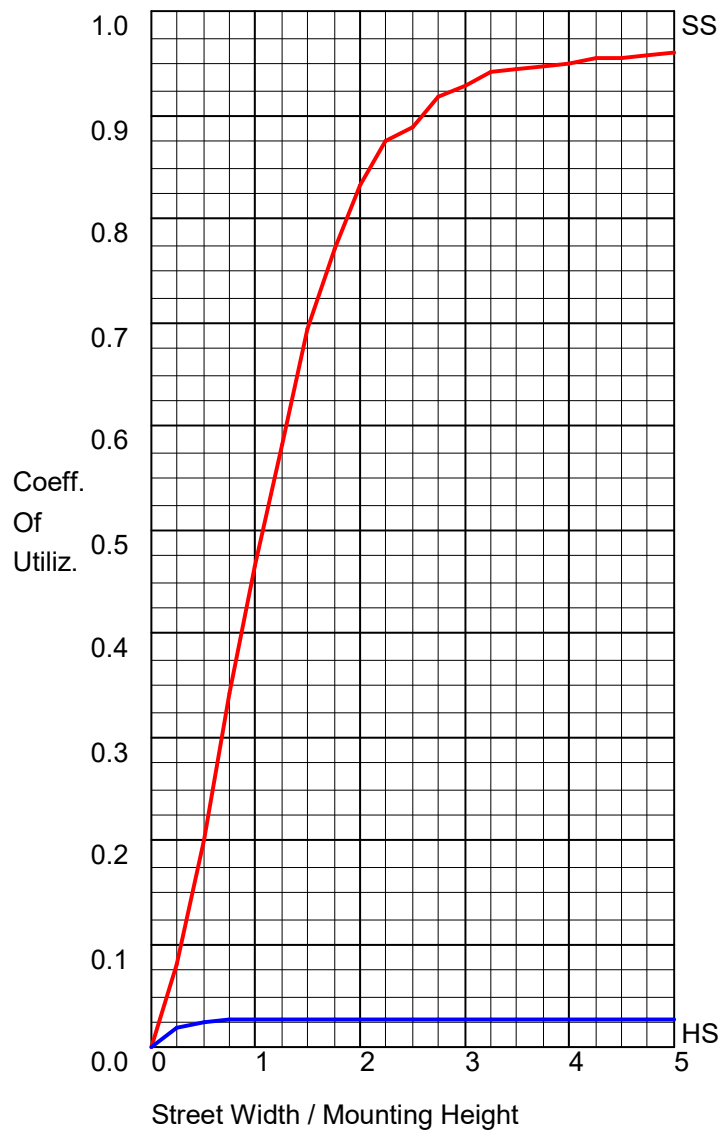
	<u>175.0</u>	<u>180.0</u>
0.0	321	321
2.5	231	232
5.0	145	146
7.5	88	88
10.0	65	65
12.5	56	55
15.0	46	46
17.5	39	39
20.0	33	33
22.5	27	27
25.0	21	21
27.5	18	18
30.0	14	14
32.5	11	11
35.0	8	8
37.5	5	5
40.0	3	3
42.5	1	1
45.0	1	0
47.5	0	0
50.0	0	0
52.5	0	0
55.0	0	0
57.5	0	0
60.0	0	0
62.5	0	0
65.0	0	0

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**CANDELA TABULATION - (Cont.)**

<b>67.5</b>	0	0
<b>70.0</b>	0	0
<b>72.5</b>	0	0
<b>75.0</b>	0	0
<b>77.5</b>	0	0
<b>80.0</b>	0	0
<b>82.5</b>	0	0
<b>85.0</b>	0	0
<b>87.5</b>	0	0
<b>90.0</b>	0	0

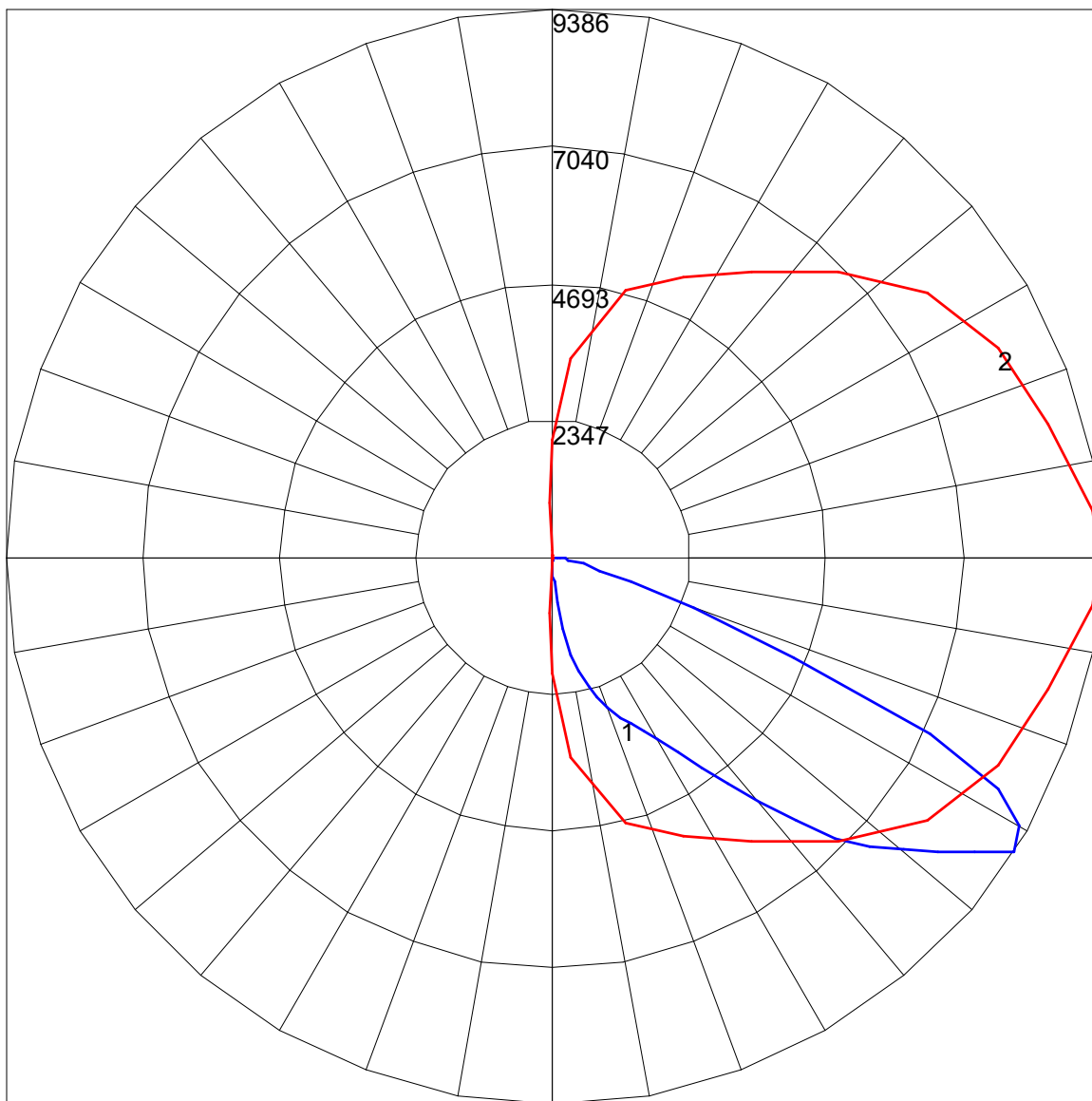
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

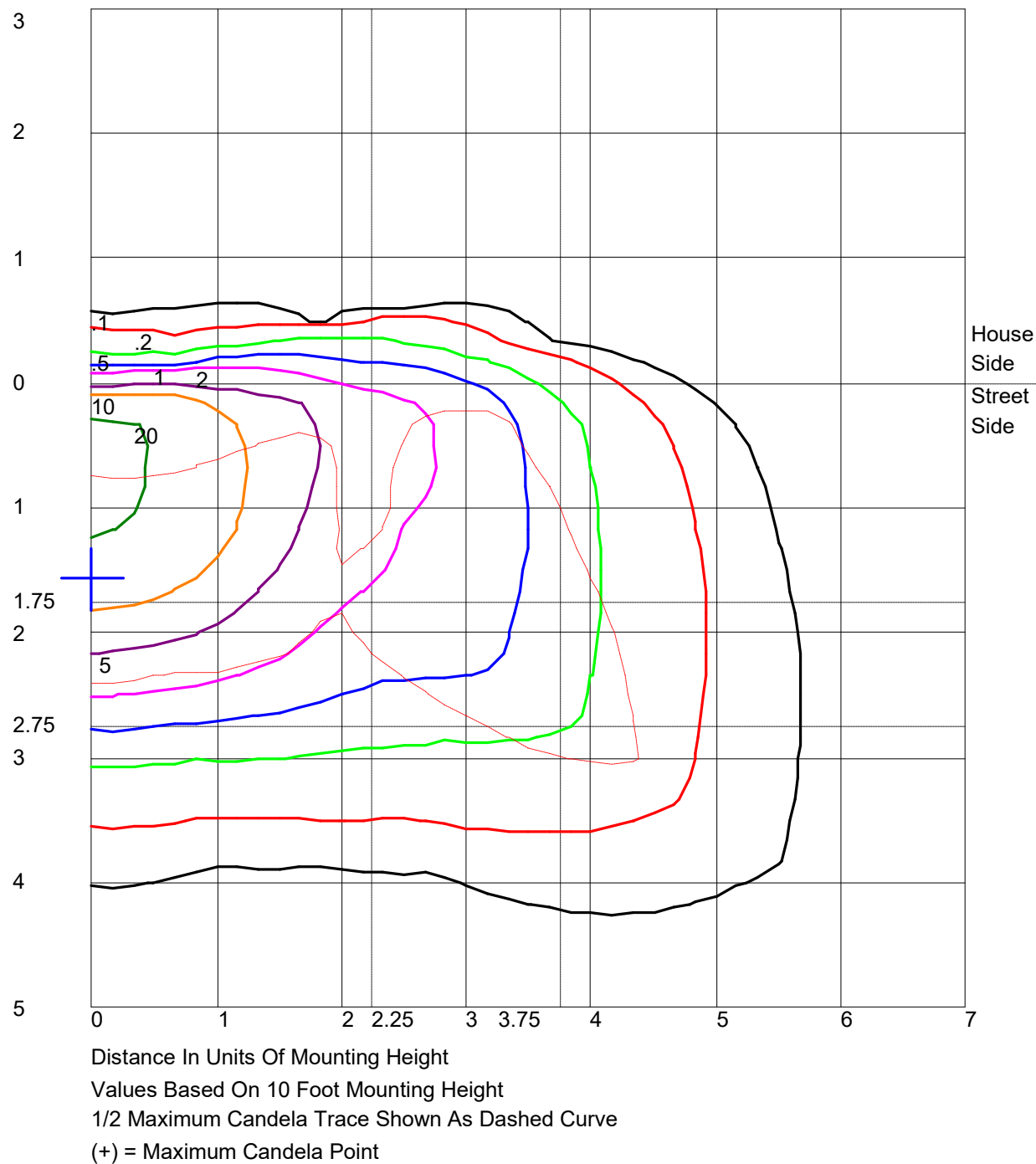
	Lumens	Percent Of Luminaire
Downward Street Side	11327.8	97.2
Downward House Side	331.8	2.8
Downward Total	11659.6	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	11659.6	100.0

POLAR GRAPH



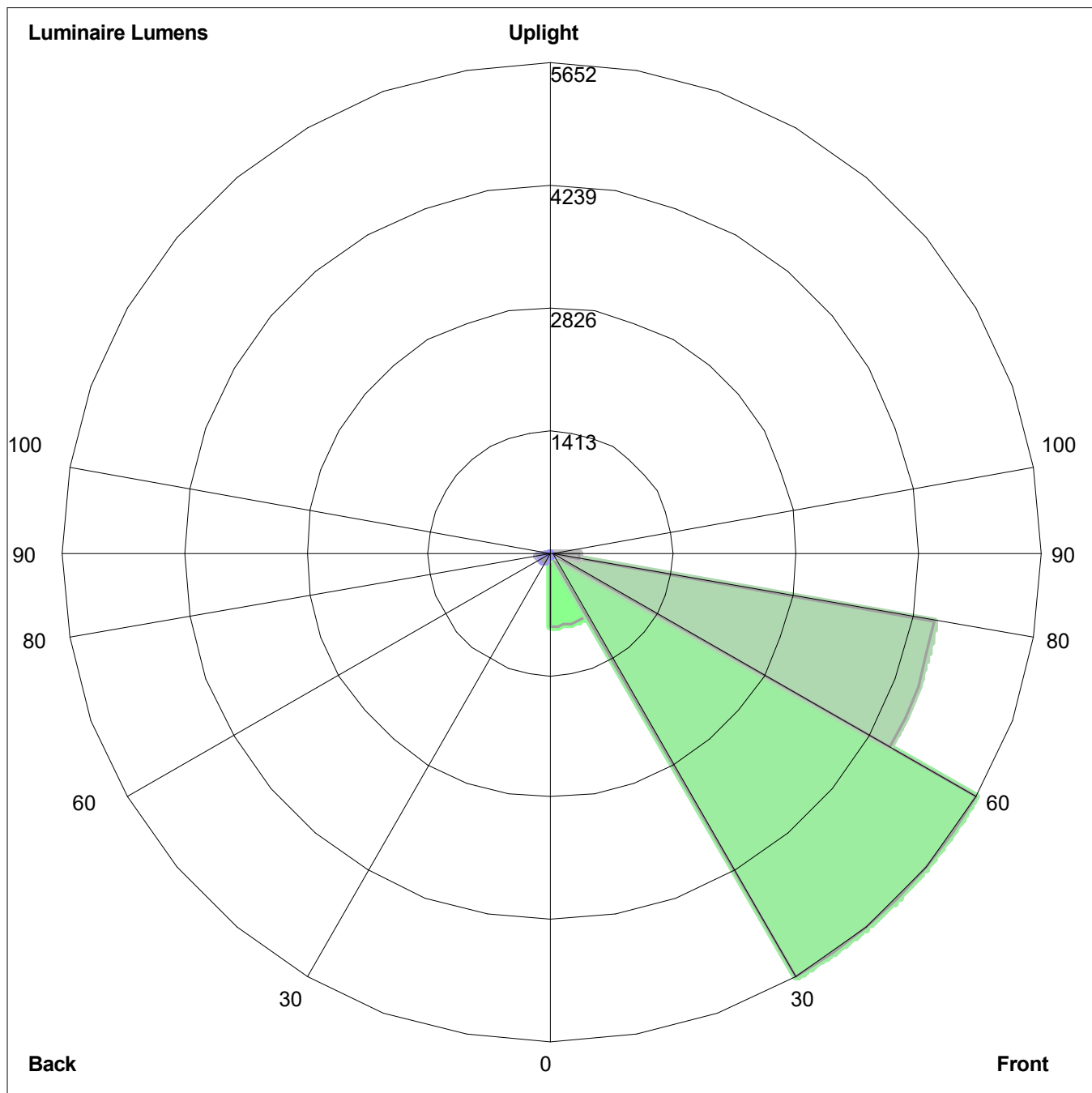
Maximum Candela = 9386 Located At Horizontal Angle = 0, Vertical Angle = 57.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (57.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=843.5, Medium=5652.2, High=4498.6, Very High=333.4  
Back: Low=44.9, Medium=130.1, High=151.5, Very High=5.4  
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G3