



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : VALS-12L-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-12L-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	7951
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	74
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	6400
Maximum Candela Angle	0H 57.5V
Maximum Candela (<90 Degrees Vertical)	6400
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	2877 (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)	575.2	N.A.	7.2
FM - Front-Medium (30-60)	3854.3	N.A.	48.5
FH - Front-High (60-80)	3067.8	N.A.	38.6
FVH - Front-Very High (80-90)	227.3	N.A.	2.9
BL - Back-Low (0-30)	30.6	N.A.	0.4
BM - Back-Medium (30-60)	88.7	N.A.	1.1
BH - Back-High (60-80)	103.3	N.A.	1.3
BVH - Back-Very High (80-90)	3.7	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	7950.9	N.A.	100.0
BUG Rating	B0-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>	219	219	219	219	219	219	219	219	219	219
<b>2.5</b>	298	309	300	305	296	288	270	261	249	239
<b>5.0</b>	547	562	547	543	511	474	417	366	314	272
<b>7.5</b>	854	867	851	837	781	710	605	507	410	317
<b>10.0</b>	1150	1159	1156	1123	1042	949	824	676	533	388
<b>12.5</b>	1372	1376	1372	1340	1255	1170	1039	887	681	483
<b>15.0</b>	1570	1554	1549	1510	1419	1342	1236	1088	854	595
<b>17.5</b>	1730	1714	1709	1661	1566	1495	1410	1277	1034	720
<b>20.0</b>	1880	1864	1858	1798	1699	1643	1565	1444	1220	863
<b>22.5</b>	2023	2007	2006	1936	1844	1794	1715	1598	1397	1012
<b>25.0</b>	2157	2147	2137	2062	1979	1936	1862	1749	1556	1167
<b>27.5</b>	2291	2280	2268	2190	2119	2077	2007	1896	1705	1324
<b>30.0</b>	2468	2454	2440	2337	2253	2215	2149	2042	1841	1476
<b>32.5</b>	2707	2705	2673	2543	2415	2349	2289	2183	1972	1626
<b>35.0</b>	3012	3010	2970	2803	2626	2513	2430	2325	2107	1755
<b>37.5</b>	3363	3358	3308	3097	2875	2706	2577	2470	2242	1873
<b>40.0</b>	3752	3745	3704	3431	3163	2939	2754	2624	2370	1984
<b>42.5</b>	4196	4184	4130	3795	3486	3205	2960	2793	2507	2094
<b>45.0</b>	4663	4606	4538	4151	3812	3480	3191	2977	2669	2215
<b>47.5</b>	5034	4979	4910	4523	4150	3759	3421	3163	2840	2367
<b>50.0</b>	5345	5291	5247	4922	4579	4105	3690	3360	3025	2551
<b>52.5</b>	5665	5608	5569	5294	5041	4522	3982	3571	3219	2765
<b>55.0</b>	6008	5965	5915	5681	5484	4998	4328	3813	3416	2997
<b>57.5</b>	6400	6364	6353	5997	5767	5370	4703	4077	3615	3236
<b>60.0</b>	6301	6192	6295	6080	5832	5458	4943	4286	3755	3413
<b>62.5</b>	5873	5819	5790	5715	5574	5184	4815	4231	3646	3324
<b>65.0</b>	4884	4771	4705	4661	4884	4522	4167	3710	3163	3021
<b>67.5</b>	3048	3109	3068	3121	3668	3713	3404	3123	2869	3065
<b>70.0</b>	1745	1809	1801	1935	2511	3068	3116	3454	3388	3634
<b>72.5</b>	949	991	974	1105	1613	2334	3076	4411	4152	4106
<b>75.0</b>	575	596	589	585	911	1552	2708	4891	4253	3438
<b>77.5</b>	362	368	355	291	437	913	2140	4246	3315	2316
<b>80.0</b>	187	187	186	174	196	480	1670	2877	2048	1377
<b>82.5</b>	142	137	132	104	121	319	1104	1681	1196	786
<b>85.0</b>	88	84	81	66	92	176	564	825	669	422
<b>87.5</b>	39	37	37	37	55	88	173	296	270	200
<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>	219	219	219	219	219	219	219	219	219	219
<b>2.5</b>	228	220	215	203	193	183	172	165	159	158
<b>5.0</b>	232	211	196	172	153	137	123	112	104	101
<b>7.5</b>	242	209	185	148	123	102	85	74	65	61
<b>10.0</b>	270	222	188	137	102	78	61	53	47	45
<b>12.5</b>	312	247	199	131	89	63	49	44	41	39
<b>15.0</b>	365	276	211	126	77	53	43	39	35	33
<b>17.5</b>	424	307	223	119	65	44	38	33	30	28
<b>20.0</b>	489	341	236	112	55	39	33	29	25	23
<b>22.5</b>	559	376	249	104	47	36	30	25	21	19
<b>25.0</b>	635	413	260	95	42	32	26	21	18	16
<b>27.5</b>	710	447	268	86	39	30	24	18	15	12

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**CANDELA TABULATION - (Cont.)**

30.0	790	480	275	76	37	28	21	16	12	11
32.5	866	512	281	68	34	26	20	14	11	8
35.0	944	543	286	63	32	25	18	12	9	6
37.5	1024	577	293	61	32	23	17	11	7	4
40.0	1111	616	305	63	32	22	16	11	5	3
42.5	1208	664	326	68	32	21	14	9	4	2
45.0	1321	725	353	74	32	21	13	7	3	1
47.5	1459	807	394	81	34	21	11	5	2	1
50.0	1631	914	453	87	36	21	10	4	2	0
52.5	1827	1037	514	89	38	20	7	3	1	0
55.0	2058	1188	579	88	38	18	5	3	0	0
57.5	2349	1364	645	81	34	14	5	2	0	0
60.0	2579	1436	705	69	29	10	4	1	0	0
62.5	2509	1437	756	55	23	7	4	0	0	0
65.0	2421	1655	818	39	16	6	3	0	0	0
67.5	2851	2021	891	28	11	5	1	0	0	0
70.0	3417	2330	855	21	7	4	0	0	0	0
72.5	3523	2256	663	15	5	2	0	0	0	0
75.0	2591	1559	375	11	4	1	0	0	0	0
77.5	1547	893	179	7	3	1	0	0	0	0
80.0	833	465	81	6	4	2	0	0	0	0
82.5	446	237	26	4	3	2	0	0	0	0
85.0	223	101	5	4	3	2	1	0	0	0
87.5	108	34	4	4	4	3	2	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0

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

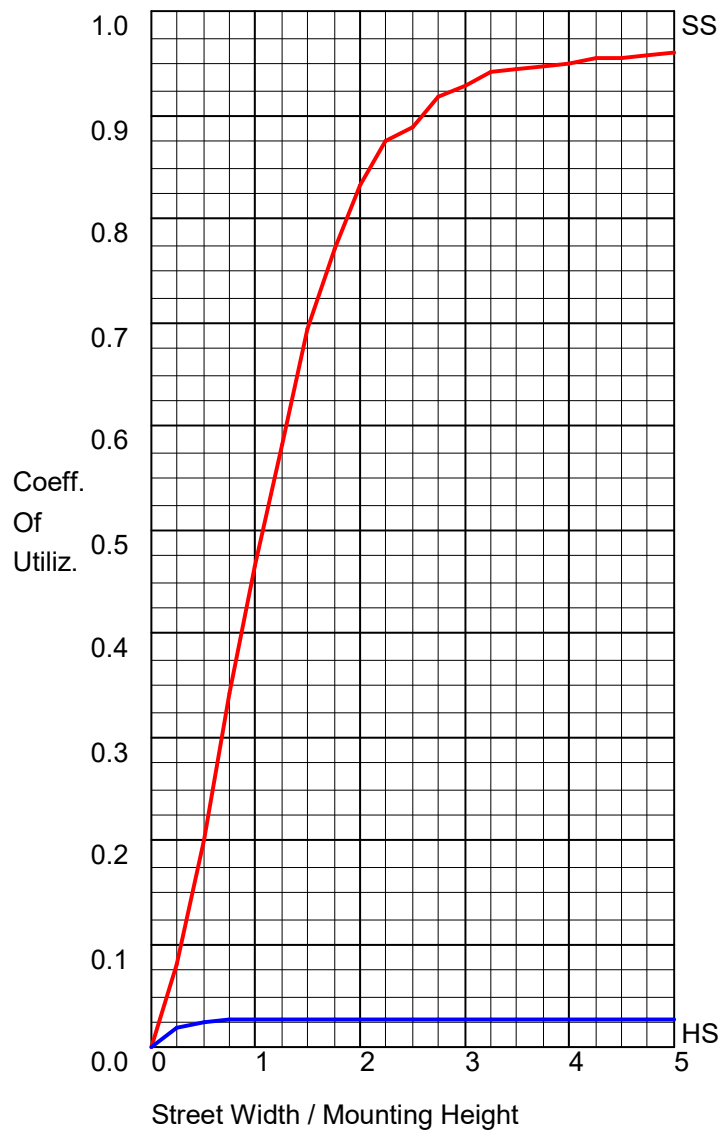
	<b><u>175.0</u></b>	<b><u>180.0</u></b>
0.0	219	219
2.5	158	158
5.0	99	100
7.5	60	60
10.0	44	44
12.5	38	38
15.0	32	32
17.5	27	27
20.0	23	23
22.5	18	18
25.0	15	15
27.5	11	11
30.0	10	10
32.5	7	7
35.0	5	5
37.5	4	4
40.0	2	2
42.5	1	1
45.0	0	0
47.5	0	0
50.0	0	0
52.5	0	0
55.0	0	0
57.5	0	0
60.0	0	0
62.5	0	0
65.0	0	0

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**CANDELA TABULATION - (Cont.)**

<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

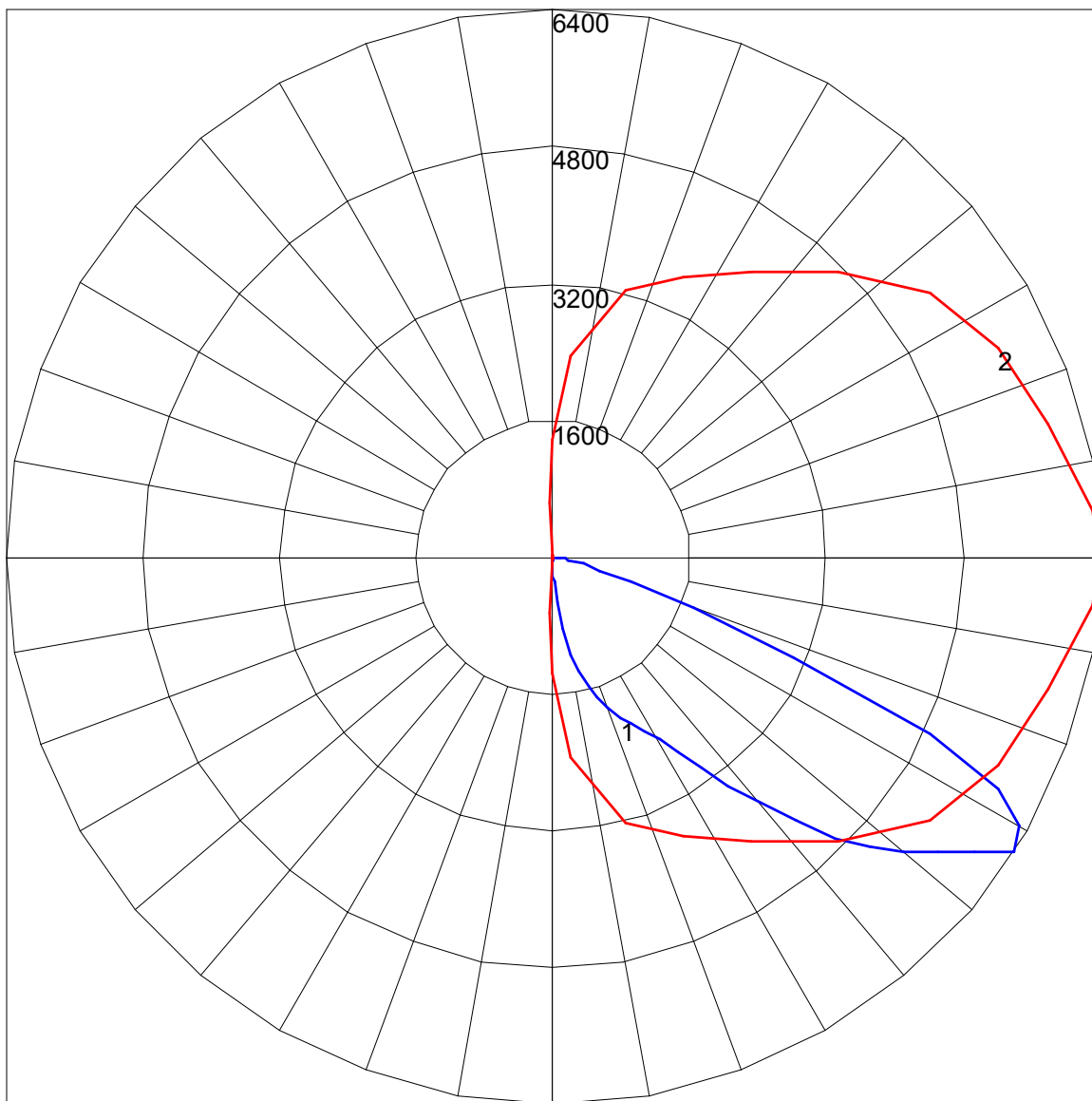
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

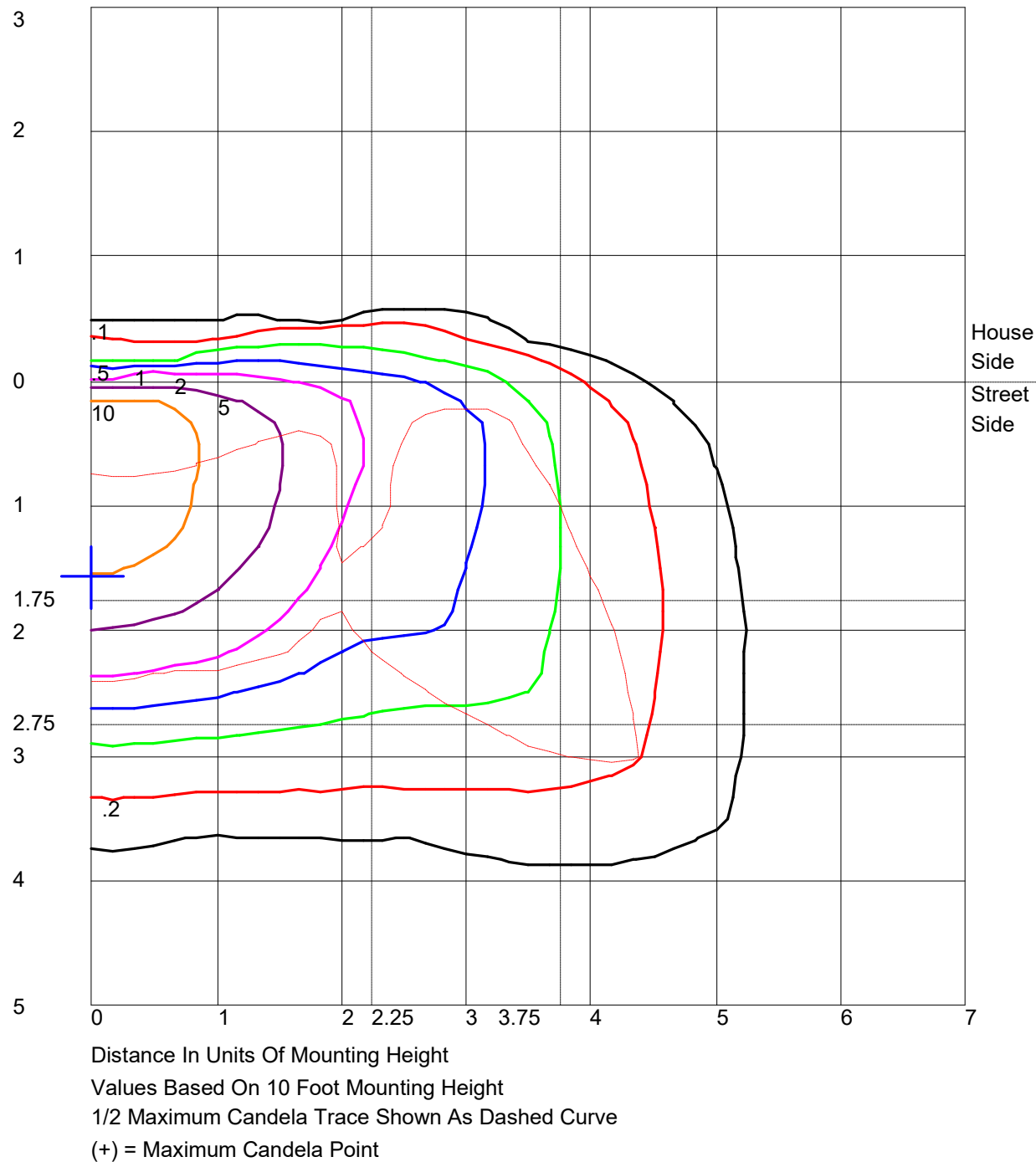
	Lumens	Percent Of Luminaire
Downward Street Side	7724.6	97.2
Downward House Side	226.2	2.8
Downward Total	7950.8	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	7950.8	100.0

POLAR GRAPH



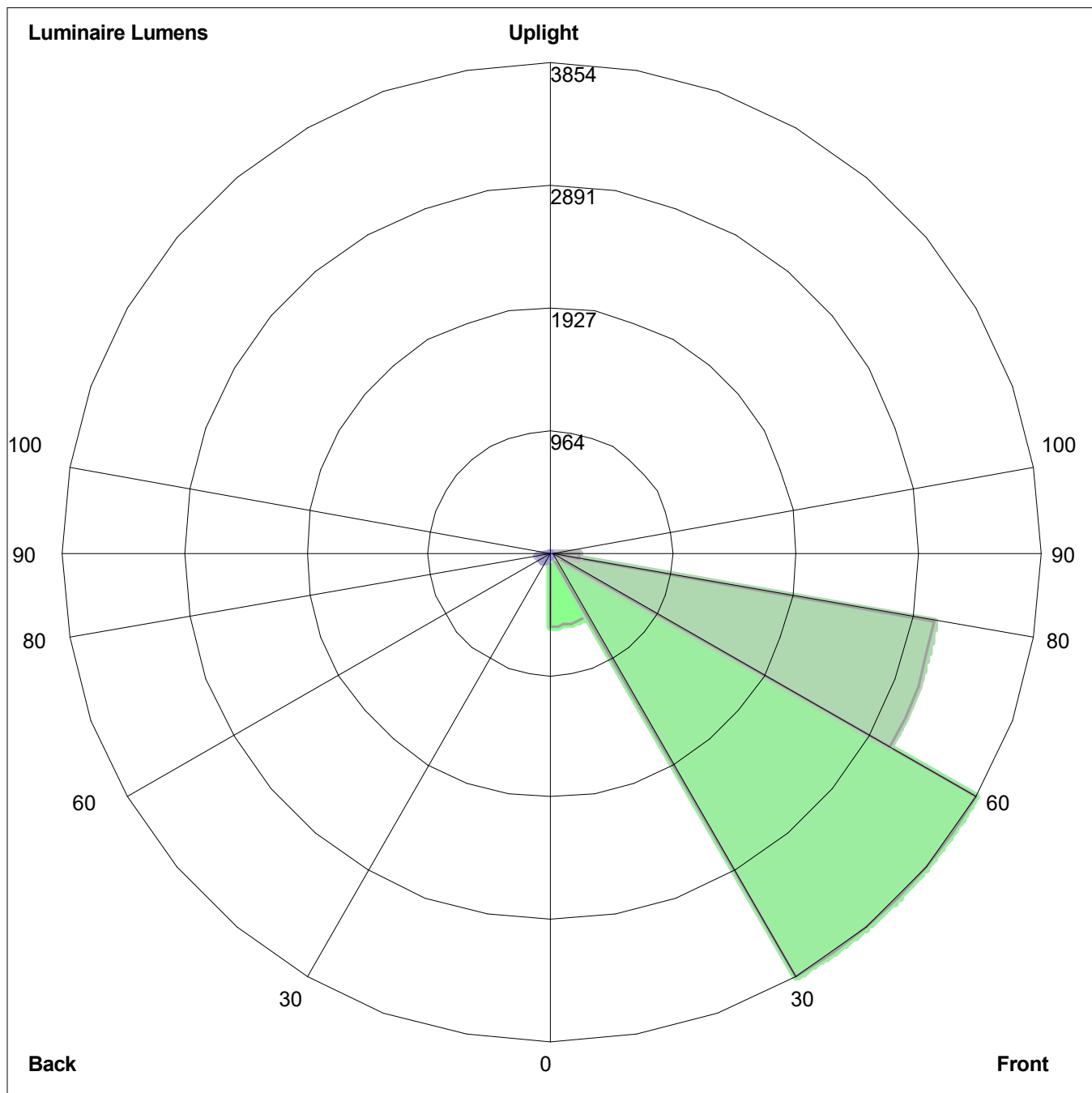
Maximum Candela = 6400 Located At Horizontal Angle = 0, Vertical Angle = 57.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (57.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=575.2, Medium=3854.3, High=3067.8, Very High=227.3  
Back: Low=30.6, Medium=88.7, High=103.3, Very High=3.7  
Uplight: Low=0.0, High=0.0

BUG Rating : B0-U0-G3