



## IES ROAD REPORT

PHOTOMETRIC FILENAME : SLW-LED-14L-FT-UNV-DIM-50.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11776

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUEDATE] 5/7/2020

[TESTDATE] 04/28/20

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] SLW-LED-14L-FT-UNV-DIM-50

[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.

[OTHER] TEST PROCEDURE: IESNA LM-79-08

[OTHER] SCALED FROM ORIGINAL TEST DATA

### CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	14204
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	137
Total Luminaire Watts	104
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	6282
Maximum Candela Angle	37.5H 70V
Maximum Candela (<90 Degrees Vertical)	6282
Maximum Candela Angle (<90 Degrees Vertical)	37.5H 70V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1353 (9.5% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1322.3	N.A.	9.3
FM - Front-Medium (30-60)	4499.0	N.A.	31.7
FH - Front-High (60-80)	3589.6	N.A.	25.3
FVH - Front-Very High (80-90)	128.2	N.A.	0.9
BL - Back-Low (0-30)	1145.3	N.A.	8.1
BM - Back-Medium (30-60)	2523.6	N.A.	17.8
BH - Back-High (60-80)	950.0	N.A.	6.7
BVH - Back-Very High (80-90)	45.8	N.A.	0.3
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	14203.8	N.A.	100.0
BUG Rating	B3-U0-G2		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u><b>0.0</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>37.5</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>	2825	2825	2825	2825	2825	2825	2825	2825	2825	2825
<b>2.5</b>	2814	2815	2820	2825	2835	2834	2843	2863	2868	2873
<b>5.0</b>	2853	2855	2861	2862	2871	2868	2876	2890	2891	2891
<b>7.5</b>	2894	2895	2900	2901	2908	2904	2910	2921	2917	2912
<b>10.0</b>	2935	2936	2941	2941	2947	2944	2948	2956	2949	2940
<b>12.5</b>	2982	2981	2983	2983	2991	2986	2991	2995	2987	2972
<b>15.0</b>	3025	3024	3027	3028	3038	3033	3037	3039	3028	3009
<b>17.5</b>	3070	3070	3074	3077	3088	3084	3089	3096	3077	3053
<b>20.0</b>	3115	3114	3121	3129	3145	3142	3150	3158	3137	3104
<b>22.5</b>	3157	3156	3168	3184	3209	3207	3224	3230	3205	3164
<b>25.0</b>	3195	3197	3213	3240	3278	3280	3303	3312	3283	3236
<b>27.5</b>	3228	3232	3256	3298	3356	3358	3391	3403	3369	3310
<b>30.0</b>	3255	3260	3297	3357	3436	3442	3486	3502	3459	3389
<b>32.5</b>	3273	3280	3331	3419	3520	3537	3588	3606	3553	3467
<b>35.0</b>	3285	3294	3360	3479	3611	3634	3698	3719	3651	3545
<b>37.5</b>	3296	3307	3391	3540	3710	3741	3821	3839	3753	3627
<b>40.0</b>	3305	3319	3422	3606	3823	3866	3955	3967	3856	3702
<b>42.5</b>	3311	3327	3454	3676	3935	3987	4099	4098	3960	3769
<b>45.0</b>	3298	3319	3472	3739	4051	4114	4243	4236	4056	3833
<b>47.5</b>	3277	3300	3481	3795	4171	4245	4396	4384	4159	3898
<b>50.0</b>	3288	3310	3506	3860	4296	4386	4559	4538	4270	3967
<b>52.5</b>	3346	3367	3563	3945	4437	4540	4739	4700	4394	4053
<b>55.0</b>	3454	3470	3663	4060	4595	4696	4904	4850	4523	4155
<b>57.5</b>	3613	3625	3803	4205	4740	4844	5035	4958	4615	4265
<b>60.0</b>	3816	3826	3990	4354	4857	4950	5121	5006	4619	4328
<b>62.5</b>	4038	4048	4180	4508	4970	5060	5221	5040	4498	4217
<b>65.0</b>	4248	4248	4345	4683	5190	5305	5497	5175	4281	3833
<b>67.5</b>	4076	4128	4399	4926	5693	5836	5977	5431	4116	3222
<b>70.0</b>	3093	3201	3850	5053	6205	6282	6059	5206	3871	2987
<b>72.5</b>	2276	2332	2937	4342	5613	5548	4776	4225	3201	2784
<b>75.0</b>	1757	1783	2181	3014	3865	3904	3578	3183	1885	1578
<b>77.5</b>	617	644	921	1593	2421	2469	2593	2053	962	647
<b>80.0</b>	234	239	311	580	1049	1117	1353	1310	587	292
<b>82.5</b>	136	135	171	299	515	566	733	849	264	153
<b>85.0</b>	61	67	85	126	212	240	340	431	96	82
<b>87.5</b>	9	9	17	27	45	54	84	90	27	31
<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>	2825	2825	2825	2825	2825	2825	2825	2825	2825	2825
<b>2.5</b>	2870	2864	2871	2858	2849	2835	2813	2803	2782	2780
<b>5.0</b>	2882	2873	2877	2859	2844	2823	2797	2782	2759	2754
<b>7.5</b>	2899	2887	2888	2863	2842	2815	2783	2762	2736	2728
<b>10.0</b>	2921	2906	2903	2872	2843	2810	2772	2744	2713	2700
<b>12.5</b>	2947	2929	2924	2886	2849	2807	2761	2727	2688	2670
<b>15.0</b>	2979	2958	2949	2904	2859	2808	2752	2707	2658	2633
<b>17.5</b>	3016	2992	2979	2926	2875	2813	2743	2684	2620	2585
<b>20.0</b>	3060	3032	3015	2954	2893	2817	2731	2654	2572	2524
<b>22.5</b>	3113	3079	3058	2987	2912	2820	2712	2614	2510	2442
<b>25.0</b>	3171	3131	3105	3022	2931	2818	2687	2560	2434	2350
<b>27.5</b>	3235	3188	3158	3057	2946	2810	2647	2492	2345	2249

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**CANDELA TABULATION - (Cont.)**

30.0	3300	3246	3208	3091	2957	2792	2593	2410	2247	2143
32.5	3366	3306	3259	3124	2962	2760	2522	2308	2138	2041
35.0	3429	3361	3310	3155	2960	2714	2436	2201	2036	1945
37.5	3490	3417	3358	3183	2951	2658	2338	2095	1939	1862
40.0	3544	3467	3404	3207	2934	2591	2232	1993	1858	1785
42.5	3591	3508	3438	3222	2908	2517	2131	1908	1787	1712
45.0	3632	3544	3465	3225	2871	2431	2035	1828	1714	1608
47.5	3675	3578	3490	3217	2823	2341	1941	1752	1607	1445
50.0	3721	3616	3514	3197	2755	2233	1850	1659	1450	1237
52.5	3773	3657	3540	3151	2654	2108	1752	1534	1252	1063
55.0	3844	3710	3563	3075	2519	1956	1630	1371	1080	981
57.5	3944	3785	3582	2969	2359	1783	1481	1193	964	888
60.0	4043	3861	3591	2851	2180	1588	1297	1034	858	751
62.5	4050	3879	3575	2723	1956	1387	1097	893	706	570
65.0	3804	3723	3475	2557	1697	1202	930	729	518	476
67.5	3149	3240	3164	2260	1424	1022	785	527	433	411
70.0	2631	2593	2561	1844	1173	822	569	414	365	342
72.5	2633	2296	1966	1333	927	617	423	334	299	272
75.0	2406	2170	1567	896	658	400	320	257	230	218
77.5	1552	1615	1159	587	390	263	231	183	162	158
80.0	641	757	648	357	196	165	143	125	120	124
82.5	241	327	358	219	116	90	88	86	85	88
85.0	105	152	179	105	55	50	53	52	52	52
87.5	34	49	58	24	17	17	16	14	10	4
90.0	0	0	0	0	0	0	0	0	0	0

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

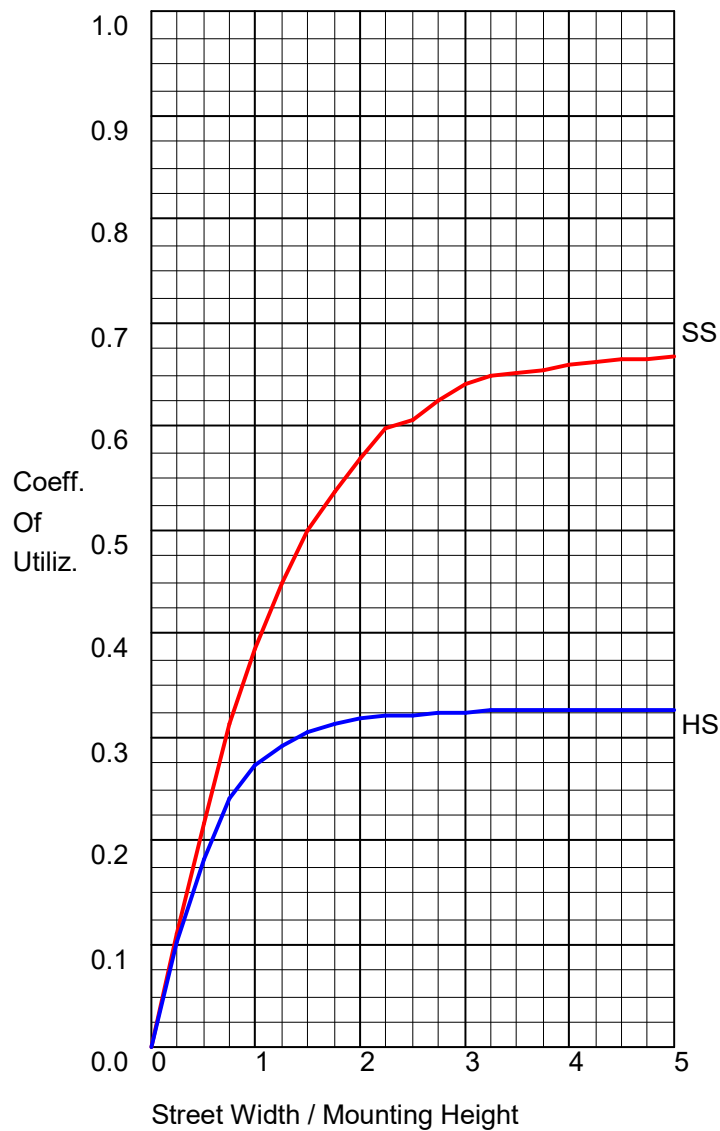
	<b><u>175.0</u></b>	<b><u>180.0</u></b>
0.0	2825	2825
2.5	2768	2772
5.0	2741	2745
7.5	2714	2717
10.0	2686	2688
12.5	2651	2654
15.0	2609	2611
17.5	2555	2556
20.0	2487	2479
22.5	2395	2390
25.0	2295	2289
27.5	2189	2182
30.0	2083	2075
32.5	1982	1974
35.0	1891	1885
37.5	1814	1808
40.0	1744	1739
42.5	1662	1656
45.0	1525	1523
47.5	1332	1307
50.0	1123	1114
52.5	1015	1013
55.0	952	949
57.5	818	812
60.0	718	714
62.5	560	558
65.0	473	471

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**CANDELA TABULATION - (Cont.)**

<b>67.5</b>	401	394
<b>70.0</b>	332	326
<b>72.5</b>	262	260
<b>75.0</b>	213	212
<b>77.5</b>	160	160
<b>80.0</b>	126	128
<b>82.5</b>	90	91
<b>85.0</b>	54	57
<b>87.5</b>	0	0
<b>90.0</b>	0	0

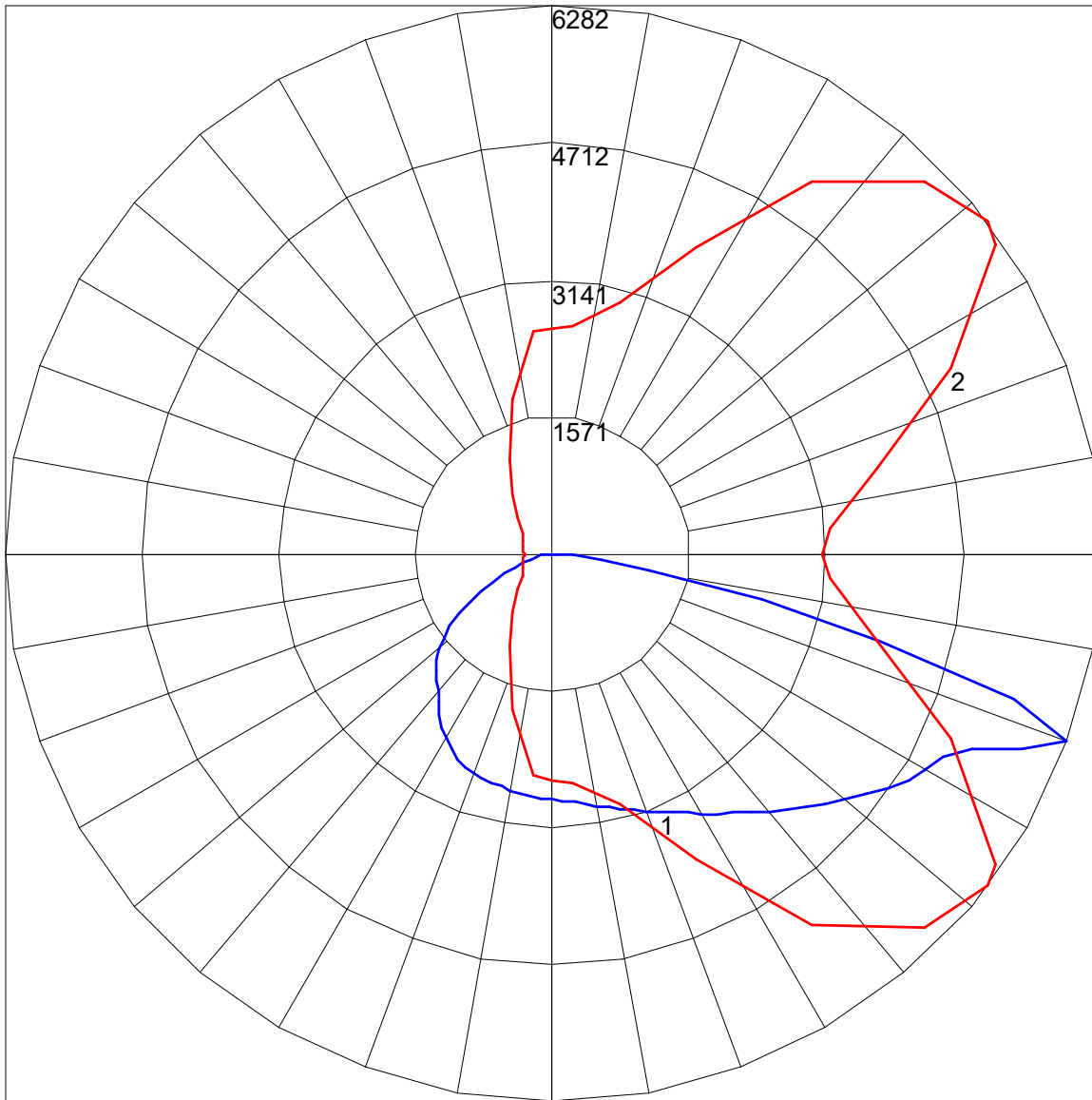
### COEFFICIENTS OF UTILIZATION



### FLUX DISTRIBUTION

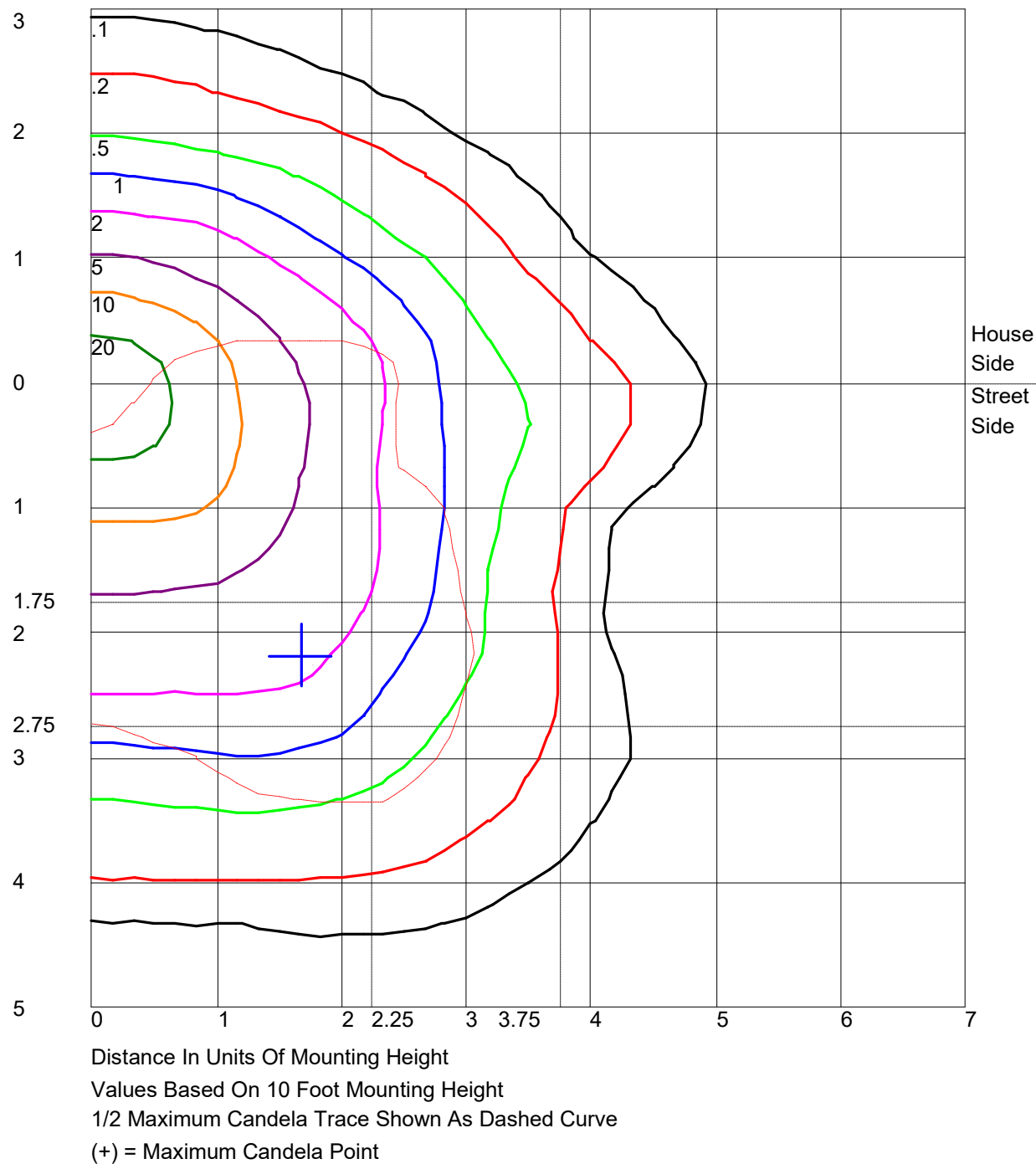
	Lumens	Percent Of Luminaire
Downward Street Side	9539.1	67.2
Downward House Side	4664.7	32.8
Downward Total	14203.8	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	14203.8	100.0

POLAR GRAPH



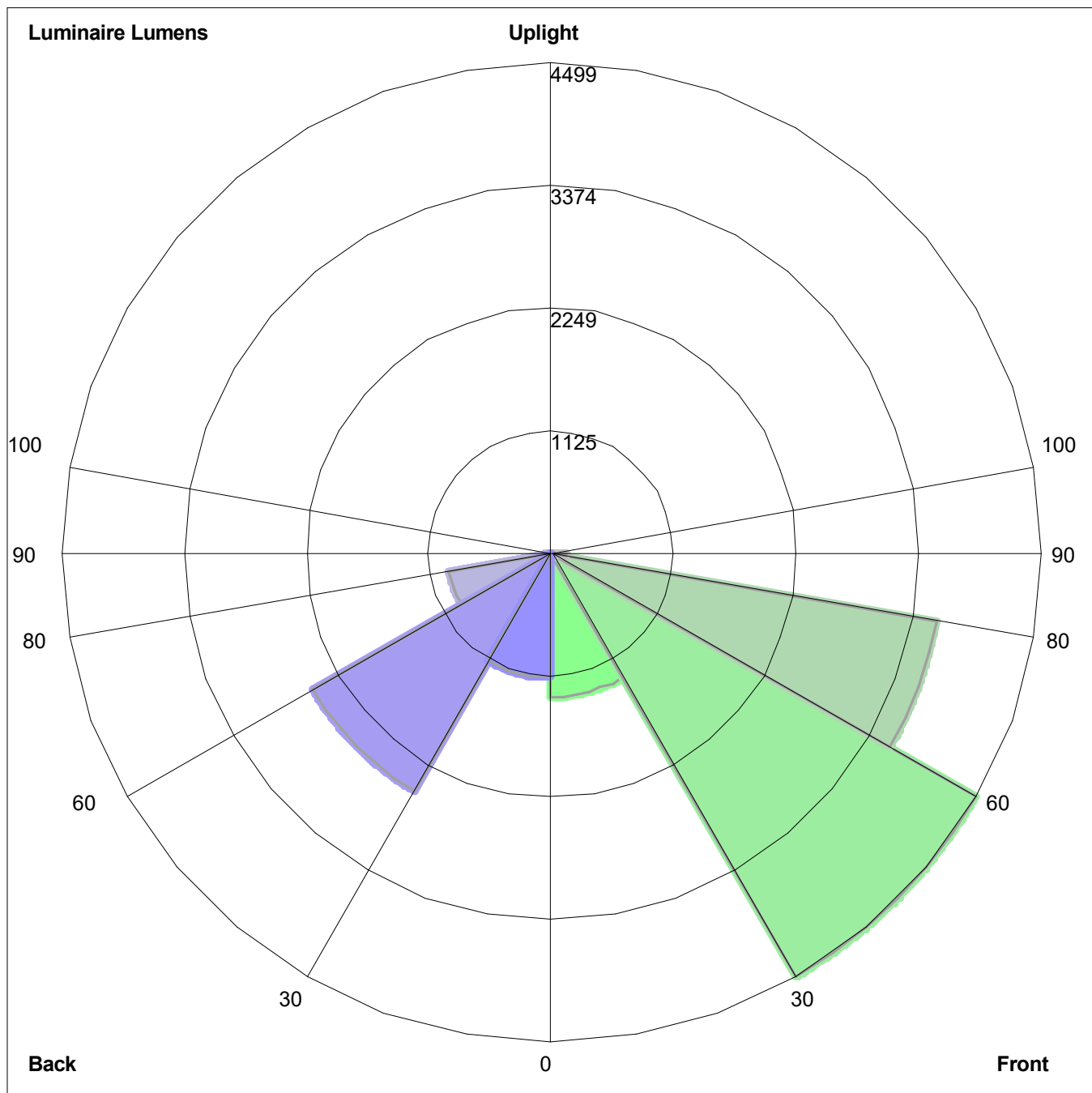
Maximum Candela = 6282 Located At Horizontal Angle = 37.5, Vertical Angle = 70  
# 1 - Vertical Plane Through Horizontal Angles (37.5 - 217.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=1322.3, Medium= 4499.0, High=3589.6, Very High=128.2  
Back: Low=1145.3, Medium=2523.6, High=950.0, Very High=45.8  
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G2