



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : ENM4-SAX-FT-LED-18L-30.IES**

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] LED-11802  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 06/10/2020  
[TEST DATE] 05/05/20  
[MANUFACT] LSI INDUSTRIES, INC.  
[LUMCAT] ENM4-SAX-FT-LED-18L-30  
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER] TEST PROCEDURE: IESNA LM-79-08  
[SEARCH\_SOURCETYPE] LED  
[SEARCH\_APPLICATION] Outdoor

**CHARACTERISTICS**

IES Classification	Type IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	18591
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	149.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	11082
Maximum Candela Angle	40H 72.5V
Maximum Candela (<90 Degrees Vertical)	11082
Maximum Candela Angle (<90 Degrees Vertical)	40H 72.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	3571 (19.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1192.3	N.A.	6.4
FM - Front-Medium (30-60)	5659.9	N.A.	30.4
FH - Front-High (60-80)	6216.0	N.A.	33.4
FVH - Front-Very High (80-90)	370.8	N.A.	2.0
BL - Back-Low (0-30)	1165.3	N.A.	6.3
BM - Back-Medium (30-60)	2777.8	N.A.	14.9
BH - Back-High (60-80)	1117.8	N.A.	6.0
BVH - Back-Very High (80-90)	91.0	N.A.	0.5
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	18590.9	N.A.	100.0
BUG Rating	B3-U0-G3		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b>0</b>	<b>5</b>	<b>15</b>	<b>25</b>	<b>35</b>	<b>40</b>	<b>45</b>	<b>55</b>	<b>65</b>	<b>75</b>
<b>0.0</b>	2552	2552	2552	2552	2552	2552	2552	2552	2552	2552
<b>2.5</b>	2535	2536	2538	2550	2547	2548	2552	2554	2553	2558
<b>5.0</b>	2495	2500	2506	2514	2529	2539	2546	2562	2571	2583
<b>7.5</b>	2435	2444	2454	2477	2504	2519	2538	2578	2606	2620
<b>10.0</b>	2424	2427	2438	2460	2495	2508	2531	2586	2637	2665
<b>12.5</b>	2442	2447	2460	2488	2517	2528	2552	2606	2668	2719
<b>15.0</b>	2493	2496	2512	2535	2565	2578	2601	2649	2703	2768
<b>17.5</b>	2568	2577	2589	2609	2641	2658	2669	2708	2754	2820
<b>20.0</b>	2665	2678	2692	2717	2736	2744	2754	2774	2807	2865
<b>22.5</b>	2798	2801	2816	2840	2861	2864	2863	2867	2869	2903
<b>25.0</b>	2961	2955	2968	2986	3005	3002	2996	2967	2944	2953
<b>27.5</b>	3142	3152	3157	3160	3167	3165	3149	3088	3026	3000
<b>30.0</b>	3368	3372	3373	3369	3362	3355	3330	3235	3126	3056
<b>32.5</b>	3592	3600	3607	3602	3592	3570	3540	3408	3244	3113
<b>35.0</b>	3830	3841	3856	3855	3841	3809	3780	3605	3381	3191
<b>37.5</b>	4068	4091	4108	4138	4118	4083	4046	3850	3537	3278
<b>40.0</b>	4320	4345	4383	4413	4431	4403	4348	4132	3737	3395
<b>42.5</b>	4576	4630	4664	4723	4770	4748	4700	4450	3985	3550
<b>45.0</b>	4888	4908	4971	5063	5147	5126	5088	4832	4288	3745
<b>47.5</b>	5202	5203	5291	5445	5573	5579	5516	5310	4650	3990
<b>50.0</b>	5461	5466	5616	5840	6027	6046	5999	5808	5066	4296
<b>52.5</b>	5688	5695	5888	6190	6484	6562	6547	6385	5586	4652
<b>55.0</b>	5858	5883	6100	6497	6911	7047	7111	6984	6134	5082
<b>57.5</b>	5961	5987	6253	6775	7325	7520	7688	7637	6744	5538
<b>60.0</b>	6039	6099	6386	7002	7726	8023	8251	8334	7402	5995
<b>62.5</b>	6224	6282	6603	7296	8151	8495	8826	9069	8019	6302
<b>65.0</b>	6515	6594	6960	7746	8651	9024	9515	9737	8416	6297
<b>67.5</b>	6914	6977	7477	8435	9386	9835	10245	10096	8270	5610
<b>70.0</b>	6542	6650	7481	9229	10414	10714	10819	9728	7006	4056
<b>72.5</b>	5516	5659	6568	8616	10751	11082	10718	8140	4802	2429
<b>75.0</b>	3597	3716	4854	6780	9219	9513	8934	5742	2926	1548
<b>77.5</b>	1805	1897	2688	4285	6080	6506	6068	3603	1908	1028
<b>80.0</b>	853	950	1519	2311	3200	3571	3419	2259	1202	660
<b>82.5</b>	513	540	1001	1450	1509	1988	1933	1215	719	360
<b>85.0</b>	388	410	687	890	1034	999	883	545	344	194
<b>87.5</b>	253	288	454	489	618	434	179	201	111	79
<b>90.0</b>	0	0	0	0	0	0	0	0	0	0

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b>85</b>	<b>90</b>	<b>95</b>	<b>105</b>	<b>115</b>	<b>125</b>	<b>135</b>	<b>145</b>	<b>155</b>	<b>165</b>
<b>0.0</b>	2552	2552	2552	2552	2552	2552	2552	2552	2552	2552
<b>2.5</b>	2565	2566	2575	2558	2569	2573	2571	2567	2558	2552
<b>5.0</b>	2588	2594	2602	2592	2596	2591	2576	2558	2552	2546
<b>7.5</b>	2630	2641	2643	2632	2615	2602	2586	2580	2586	2588
<b>10.0</b>	2689	2701	2702	2672	2634	2620	2627	2640	2655	2648
<b>12.5</b>	2751	2761	2762	2711	2663	2660	2677	2689	2698	2701
<b>15.0</b>	2816	2823	2818	2744	2694	2701	2714	2724	2745	2747
<b>17.5</b>	2877	2882	2869	2769	2716	2730	2751	2759	2771	2775
<b>20.0</b>	2928	2932	2916	2790	2742	2754	2782	2779	2786	2794
<b>22.5</b>	2967	2983	2953	2800	2753	2771	2797	2788	2805	2818
<b>25.0</b>	3000	3016	2992	2800	2754	2778	2797	2793	2823	2842
<b>27.5</b>	3030	3042	3014	2786	2740	2772	2790	2797	2833	2859

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**CANDELA TABULATION - (Cont.)**

30.0	3051	3060	3021	2765	2724	2758	2777	2790	2836	2872
32.5	3066	3063	3016	2731	2696	2734	2750	2770	2831	2882
35.0	3071	3057	3009	2689	2650	2693	2707	2741	2816	2891
37.5	3089	3045	2992	2639	2598	2637	2648	2686	2792	2880
40.0	3121	3042	2976	2582	2526	2570	2576	2626	2761	2877
42.5	3166	3049	2952	2522	2435	2496	2492	2562	2741	2787
45.0	3253	3074	2941	2451	2336	2395	2398	2487	2720	2563
47.5	3372	3130	2948	2390	2225	2292	2293	2403	2594	2344
50.0	3527	3213	2977	2335	2100	2169	2178	2321	2413	2165
52.5	3739	3332	3029	2286	1969	2044	2055	2218	2222	2004
55.0	3992	3468	3083	2242	1837	1923	1926	2087	2034	1849
57.5	4257	3625	3142	2192	1705	1795	1805	1927	1827	1646
60.0	4462	3721	3103	2127	1578	1669	1679	1753	1603	1493
62.5	4494	3594	2784	2016	1448	1536	1539	1578	1433	1367
65.0	4182	3130	2138	1803	1306	1393	1383	1445	1295	1267
67.5	3382	2335	1500	1466	1156	1243	1257	1321	1172	1179
70.0	2160	1476	1057	1120	980	1084	1137	1182	1057	1097
72.5	1229	885	748	833	803	919	997	1035	944	989
75.0	813	564	485	605	624	738	834	874	740	675
77.5	527	356	332	441	485	592	673	537	429	467
80.0	298	215	233	326	379	462	390	367	333	370
82.5	186	143	156	241	296	252	261	276	223	272
85.0	109	73	86	156	143	155	167	152	109	177
87.5	36	16	28	50	57	61	56	60	47	72
90.0	0	0	0	0	0	0	0	0	0	0

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

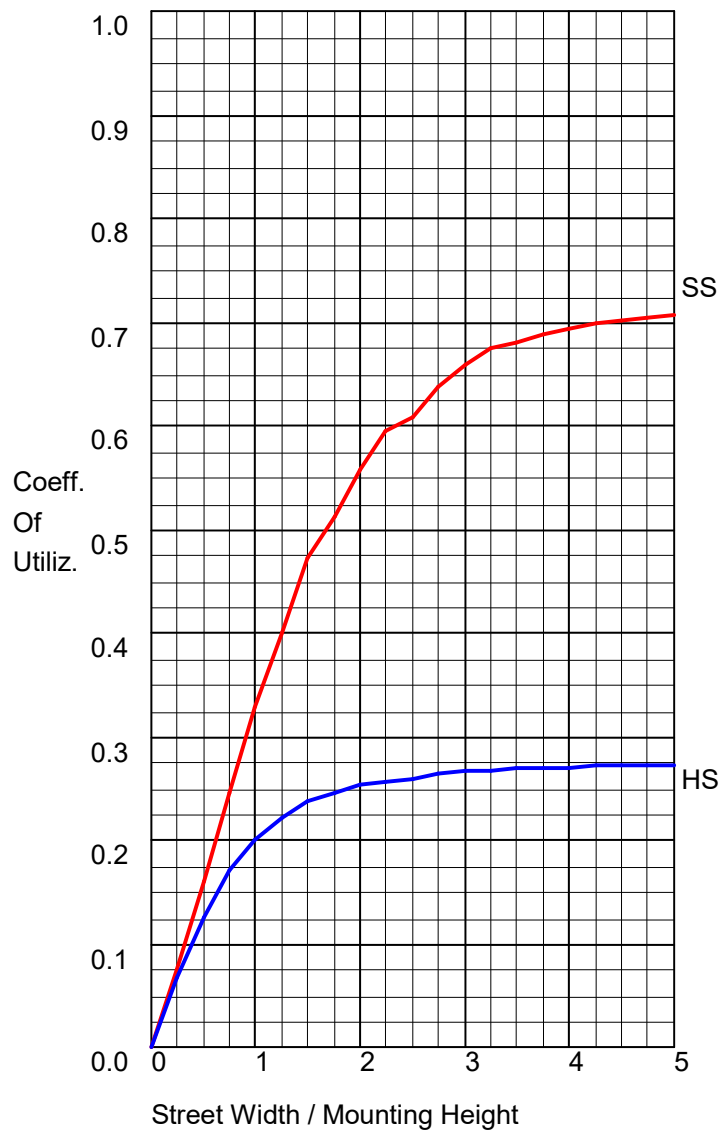
	<b>175</b>	<b>180</b>
0.0	2552	2552
2.5	2560	2555
5.0	2547	2542
7.5	2587	2583
10.0	2646	2646
12.5	2705	2701
15.0	2747	2742
17.5	2777	2769
20.0	2803	2806
22.5	2832	2837
25.0	2859	2866
27.5	2881	2893
30.0	2905	2917
32.5	2926	2934
35.0	2932	2941
37.5	2916	2925
40.0	2842	2827
42.5	2574	2561
45.0	2354	2348
47.5	2188	2167
50.0	2045	2024
52.5	1903	1884
55.0	1744	1732
57.5	1564	1550
60.0	1434	1421
62.5	1338	1329
65.0	1262	1259

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**CANDELA TABULATION - (Cont.)**

<b>67.5</b>	1199	1198
<b>70.0</b>	1151	1142
<b>72.5</b>	1045	1040
<b>75.0</b>	724	719
<b>77.5</b>	606	616
<b>80.0</b>	501	527
<b>82.5</b>	390	404
<b>85.0</b>	258	284
<b>87.5</b>	134	165
<b>90.0</b>	0	0

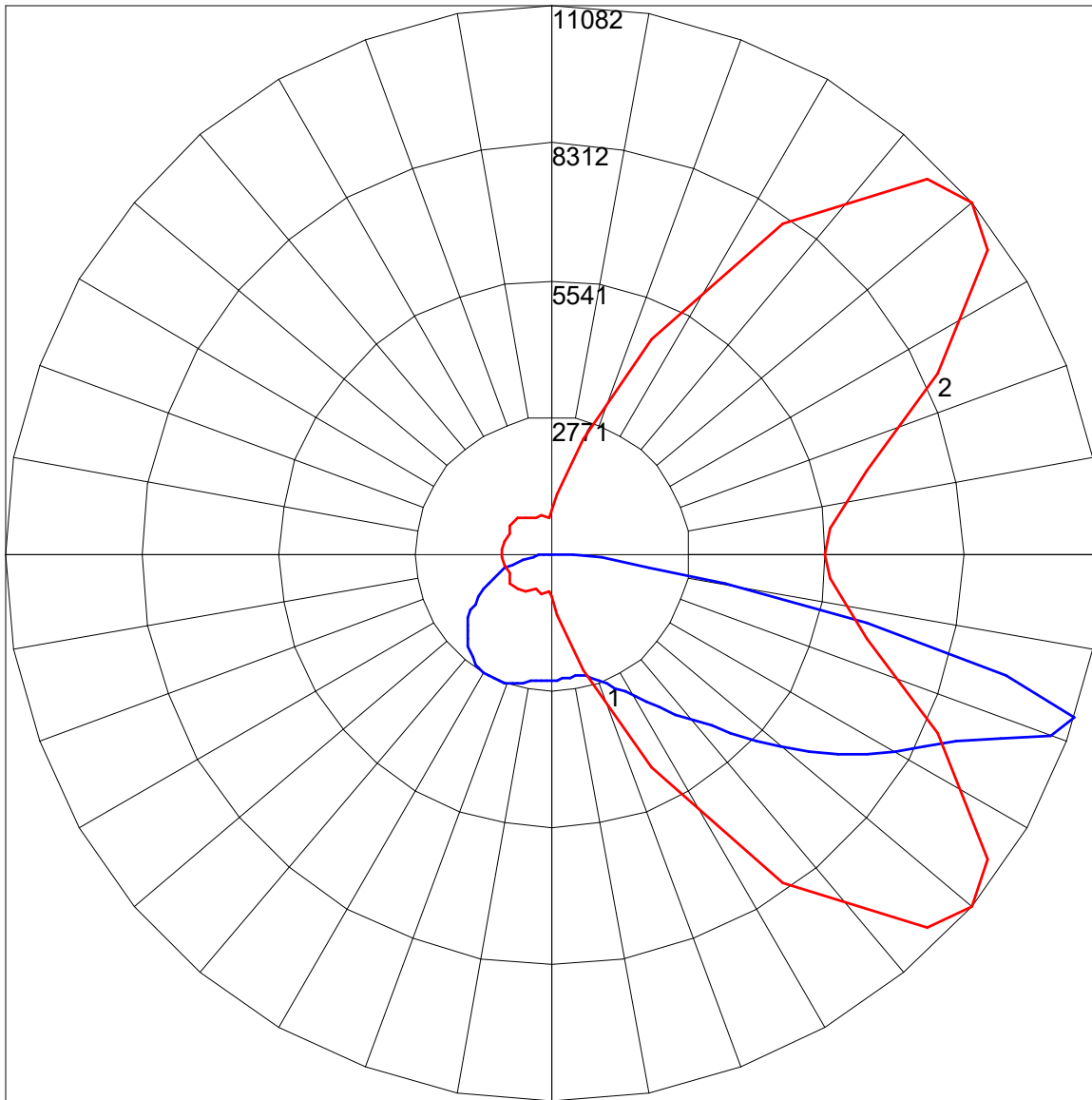
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

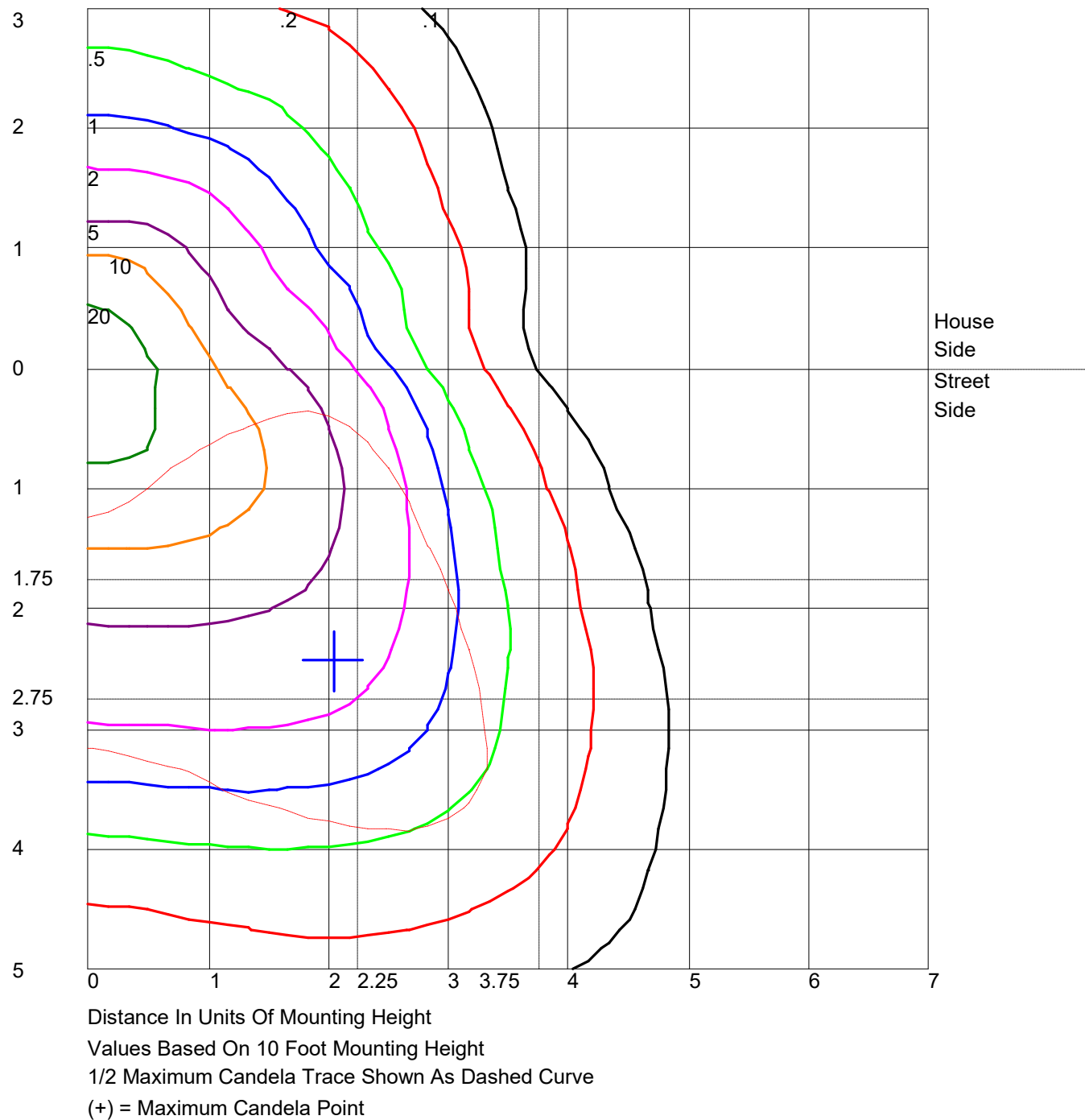
	Lumens	Percent Of Luminaire
Downward Street Side	13439.0	72.3
Downward House Side	5151.9	27.7
Downward Total	18590.9	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	18590.9	100.0

POLAR GRAPH



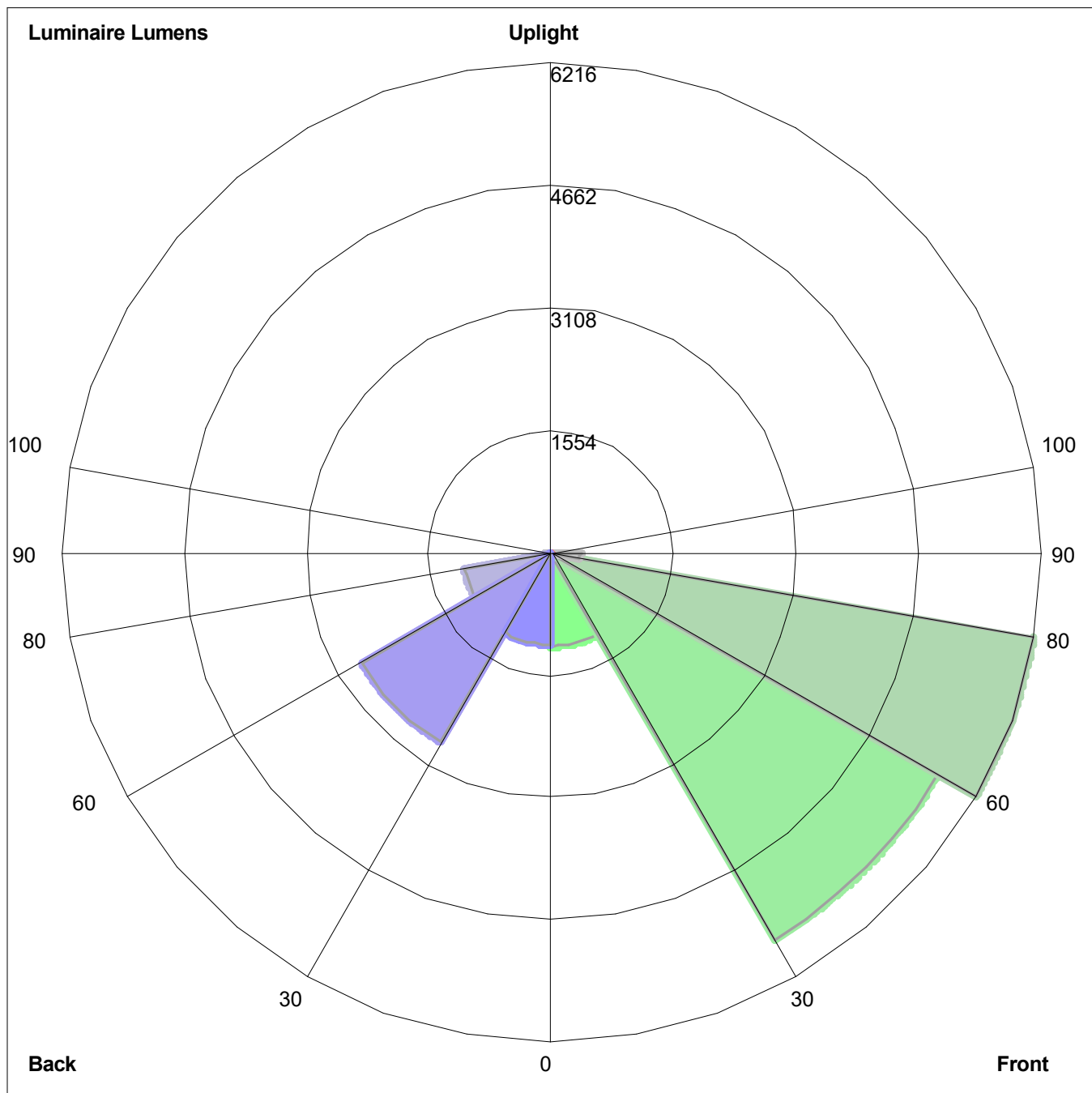
Maximum Candela = 11082 Located At Horizontal Angle = 40, Vertical Angle = 72.5  
# 1 - Vertical Plane Through Horizontal Angles (40 - 220) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (72.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=1192.3, Medium=5659.9, High= 6216.0, Very High=370.8  
Back: Low=1165.3, Medium=2777.8, High=1117.8, Very High=91.0  
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G3