



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : ENM4-SAX-3-LED-25L-30.IES**

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] LED-11789  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 06/10/2020  
[TEST DATE] 05/01/20  
[MANUFACT] LSI INDUSTRIES, INC.  
[LUMCAT] ENM4-SAX-3-LED-25L-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 III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	25722
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	227.7
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	23359
Maximum Candela Angle	55H 65V
Maximum Candela (<90 Degrees Vertical)	23359
Maximum Candela Angle (<90 Degrees Vertical)	55H 65V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1356 (5.3% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : ENM4-SAX-3-LED-25L-30.IES**

**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1136.5	N.A.	4.4
FM - Front-Medium (30-60)	11028.9	N.A.	42.9
FH - Front-High (60-80)	7533.3	N.A.	29.3
FVH - Front-Very High (80-90)	187.3	N.A.	0.7
BL - Back-Low (0-30)	1083.7	N.A.	4.2
BM - Back-Medium (30-60)	3252.5	N.A.	12.6
BH - Back-High (60-80)	1378.2	N.A.	5.4
BVH - Back-Very High (80-90)	121.2	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	25721.6	N.A.	100.0
BUG Rating	B3-U0-G4		

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : ENM4-SAX-3-LED-25L-30.IES**

**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>45.0</b></u>	<u><b>52.5</b></u>	<u><b>55.0</b></u>	<u><b>65.0</b></u>	<u><b>75.0</b></u>
<b>0.0</b>	2142	2142	2142	2142	2142	2142	2142	2142	2142	2142
<b>2.5</b>	2084	2094	2109	2109	2108	2122	2114	2120	2131	2131
<b>5.0</b>	2044	2042	2058	2066	2078	2091	2086	2104	2116	2123
<b>7.5</b>	1975	1971	1984	2006	2038	2058	2070	2085	2101	2124
<b>10.0</b>	1920	1919	1932	1958	1998	2032	2045	2066	2097	2131
<b>12.5</b>	1895	1900	1916	1943	1983	2029	2049	2069	2108	2146
<b>15.0</b>	1919	1930	1950	1978	2025	2078	2101	2117	2149	2178
<b>17.5</b>	2019	2033	2053	2093	2138	2191	2204	2219	2236	2248
<b>20.0</b>	2228	2238	2256	2293	2338	2387	2395	2408	2412	2387
<b>22.5</b>	2554	2568	2586	2612	2671	2701	2725	2718	2723	2632
<b>25.0</b>	3008	2993	3014	3088	3141	3171	3194	3174	3157	3004
<b>27.5</b>	3569	3555	3562	3647	3732	3779	3795	3762	3711	3428
<b>30.0</b>	4098	4111	4139	4262	4388	4466	4476	4450	4303	3917
<b>32.5</b>	4588	4626	4691	4882	5091	5205	5185	5153	4914	4404
<b>35.0</b>	5159	5166	5260	5512	5786	5933	5894	5855	5518	4874
<b>37.5</b>	5823	5848	5991	6198	6495	6685	6601	6560	6082	5315
<b>40.0</b>	6619	6673	6811	6987	7249	7454	7346	7241	6590	5680
<b>42.5</b>	7663	7711	7836	7949	8097	8259	8021	7891	7043	6002
<b>45.0</b>	8940	9047	9152	9220	9260	9130	8712	8520	7511	6337
<b>47.5</b>	10672	10782	10920	10989	10753	10236	9538	9273	8064	6804
<b>50.0</b>	12260	12365	12651	12909	12612	11667	10714	10279	8749	7640
<b>52.5</b>	13919	13848	14590	15260	14964	13400	12185	11669	10049	9106
<b>55.0</b>	14501	14603	15627	16985	17151	15654	14328	13930	12215	10881
<b>57.5</b>	13919	14017	15530	17604	18844	18203	17136	16887	15036	12198
<b>60.0</b>	11210	11450	12983	16457	19438	20383	20599	20368	17205	12997
<b>62.5</b>	7341	7585	9179	12996	18094	21365	22832	22806	18591	13599
<b>65.0</b>	3349	3367	4665	8331	14221	20284	23106	23359	19219	13102
<b>67.5</b>	1815	1853	2317	3867	9343	16283	21035	21930	18078	10804
<b>70.0</b>	1073	1100	1396	2254	4891	10915	16137	17941	14181	7641
<b>72.5</b>	699	722	920	1451	2768	5969	9838	11357	9101	3779
<b>75.0</b>	499	527	699	1153	1939	3082	4897	5775	4021	1372
<b>77.5</b>	369	389	531	973	1639	1841	2320	2565	1947	728
<b>80.0</b>	264	282	415	809	1356	1249	1118	1200	1054	424
<b>82.5</b>	179	197	309	610	1026	796	640	646	573	304
<b>85.0</b>	135	144	224	446	610	425	323	326	332	188
<b>87.5</b>	145	164	162	302	338	134	139	133	120	93
<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>	2142	2142	2142	2142	2142	2142	2142	2142	2142	2142
<b>2.5</b>	2151	2155	2158	2157	2169	2185	2181	2188	2190	2188
<b>5.0</b>	2149	2157	2173	2190	2220	2251	2264	2274	2292	2284
<b>7.5</b>	2152	2173	2197	2223	2279	2314	2347	2361	2379	2382
<b>10.0</b>	2171	2189	2215	2261	2327	2374	2416	2436	2447	2457
<b>12.5</b>	2174	2203	2230	2295	2369	2432	2472	2489	2507	2523
<b>15.0</b>	2197	2209	2244	2323	2408	2471	2512	2547	2566	2578
<b>17.5</b>	2252	2250	2276	2359	2434	2499	2556	2608	2621	2624
<b>20.0</b>	2354	2344	2338	2386	2456	2546	2595	2646	2668	2652
<b>22.5</b>	2514	2466	2438	2424	2478	2597	2641	2700	2737	2705
<b>25.0</b>	2754	2645	2548	2461	2499	2634	2690	2769	2839	2820
<b>27.5</b>	3050	2857	2698	2476	2514	2673	2735	2827	2978	2991

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : ENM4-SAX-3-LED-25L-30.IES**

**CANDELA TABULATION - (Cont.)**

30.0	3368	3082	2832	2488	2516	2705	2771	2904	3185	3262
32.5	3674	3295	2938	2475	2502	2716	2781	3008	3465	3582
35.0	3975	3493	3049	2441	2468	2705	2771	3081	3726	3791
37.5	4218	3646	3110	2400	2413	2665	2753	3079	3905	4016
40.0	4454	3755	3142	2347	2334	2594	2697	3011	4111	4170
42.5	4667	3882	3183	2283	2245	2507	2609	2897	4351	4005
45.0	4931	4064	3259	2261	2150	2410	2509	2787	4461	3774
47.5	5442	4459	3451	2276	2057	2315	2426	2697	4255	3568
50.0	6288	5055	3719	2290	1971	2211	2348	2642	3887	3408
52.5	7381	5716	4028	2303	1873	2077	2242	2532	3465	3253
55.0	8326	6259	4204	2265	1756	1933	2118	2374	3036	3119
57.5	9000	6534	4158	2131	1618	1777	1976	2223	2634	2941
60.0	9501	6514	3778	1927	1482	1616	1815	2048	2246	2761
62.5	9545	5940	2929	1655	1356	1462	1644	1831	1973	2590
65.0	8450	4983	2207	1377	1235	1322	1455	1682	1744	2383
67.5	6460	3819	1633	1142	1103	1195	1294	1540	1560	2117
70.0	3848	2268	1069	918	944	1025	1134	1392	1392	1813
72.5	1482	981	645	716	799	873	975	1229	1196	1499
75.0	710	540	482	593	674	750	832	964	931	1133
77.5	356	329	371	502	575	637	677	577	509	697
80.0	256	248	303	425	472	467	458	400	330	436
82.5	180	179	237	346	359	266	250	276	220	328
85.0	108	110	171	261	203	170	166	147	110	209
87.5	49	48	107	137	94	82	56	66	49	103
90.0	0	0	0	0	0	0	0	0	0	0

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

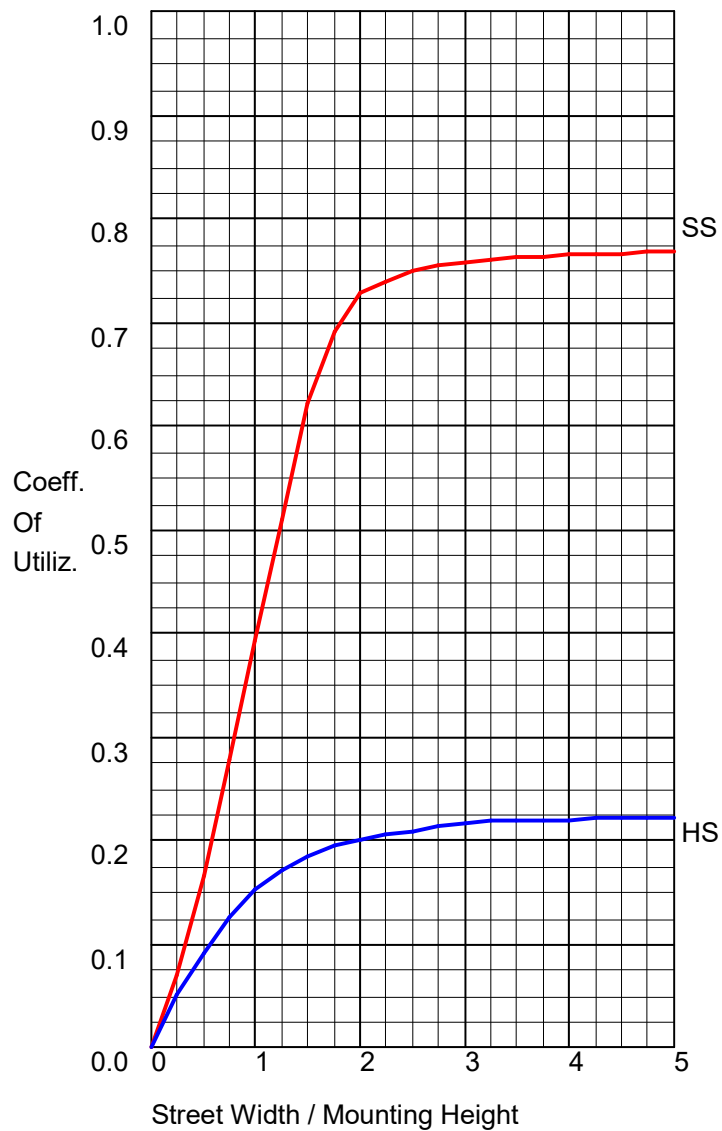
	<u>175.0</u>	<u>180.0</u>
0.0	2142	2142
2.5	2183	2186
5.0	2282	2289
7.5	2375	2383
10.0	2446	2449
12.5	2512	2512
15.0	2568	2569
17.5	2612	2614
20.0	2643	2639
22.5	2691	2683
25.0	2777	2757
27.5	2906	2883
30.0	3118	3089
32.5	3377	3333
35.0	3555	3507
37.5	3543	3452
40.0	3284	3166
42.5	2896	2769
45.0	2631	2473
47.5	2467	2330
50.0	2399	2247
52.5	2350	2166
55.0	2333	2120
57.5	2308	2058
60.0	2364	2085
62.5	2429	2185
65.0	2491	2314

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : ENM4-SAX-3-LED-25L-30.IES**

**CANDELA TABULATION - (Cont.)**

<b>67.5</b>	2522	2440
<b>70.0</b>	2407	2491
<b>72.5</b>	1993	2203
<b>75.0</b>	1459	1722
<b>77.5</b>	1135	1278
<b>80.0</b>	838	894
<b>82.5</b>	600	615
<b>85.0</b>	424	439
<b>87.5</b>	502	690
<b>90.0</b>	0	0

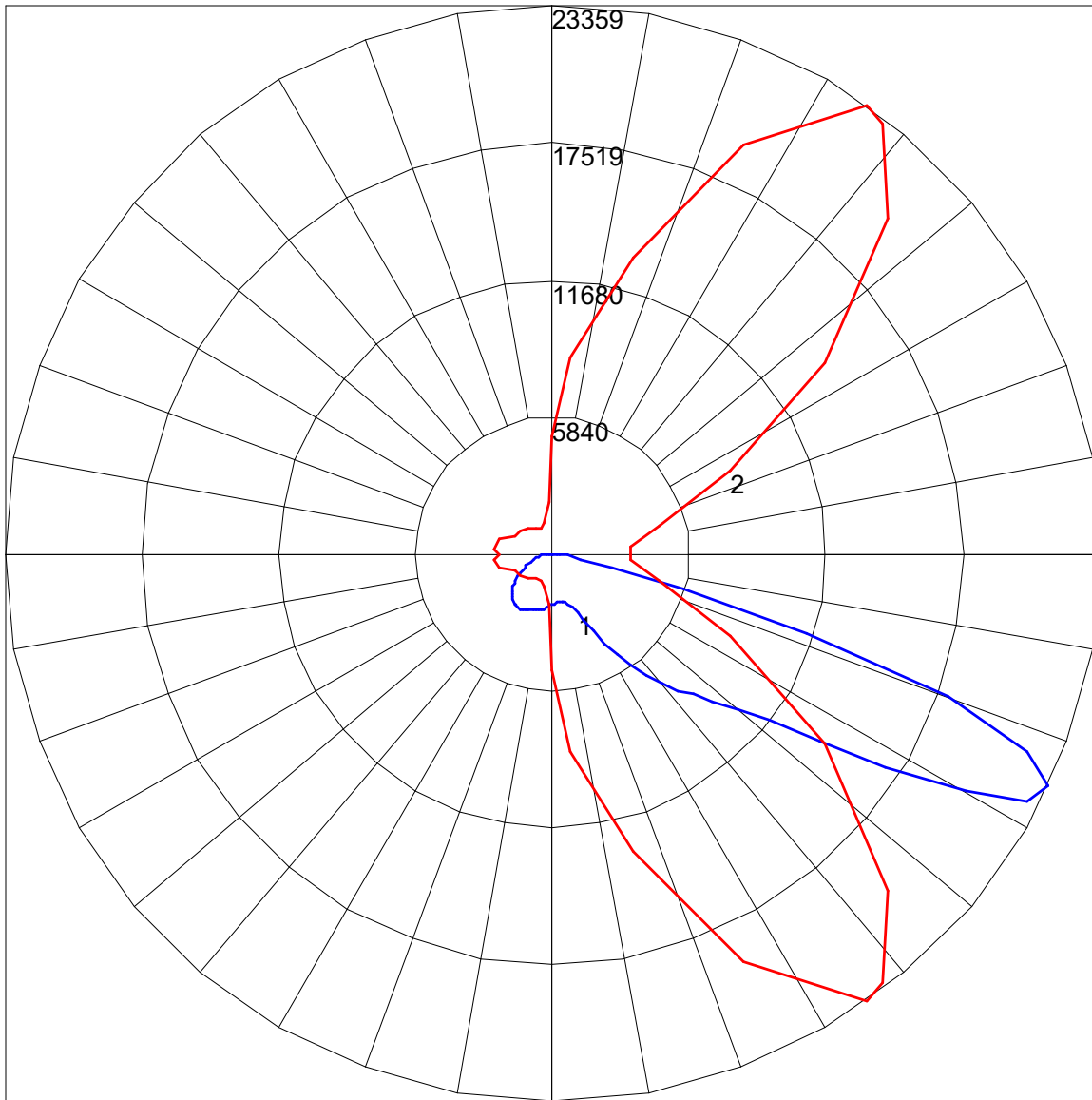
### COEFFICIENTS OF UTILIZATION



### FLUX DISTRIBUTION

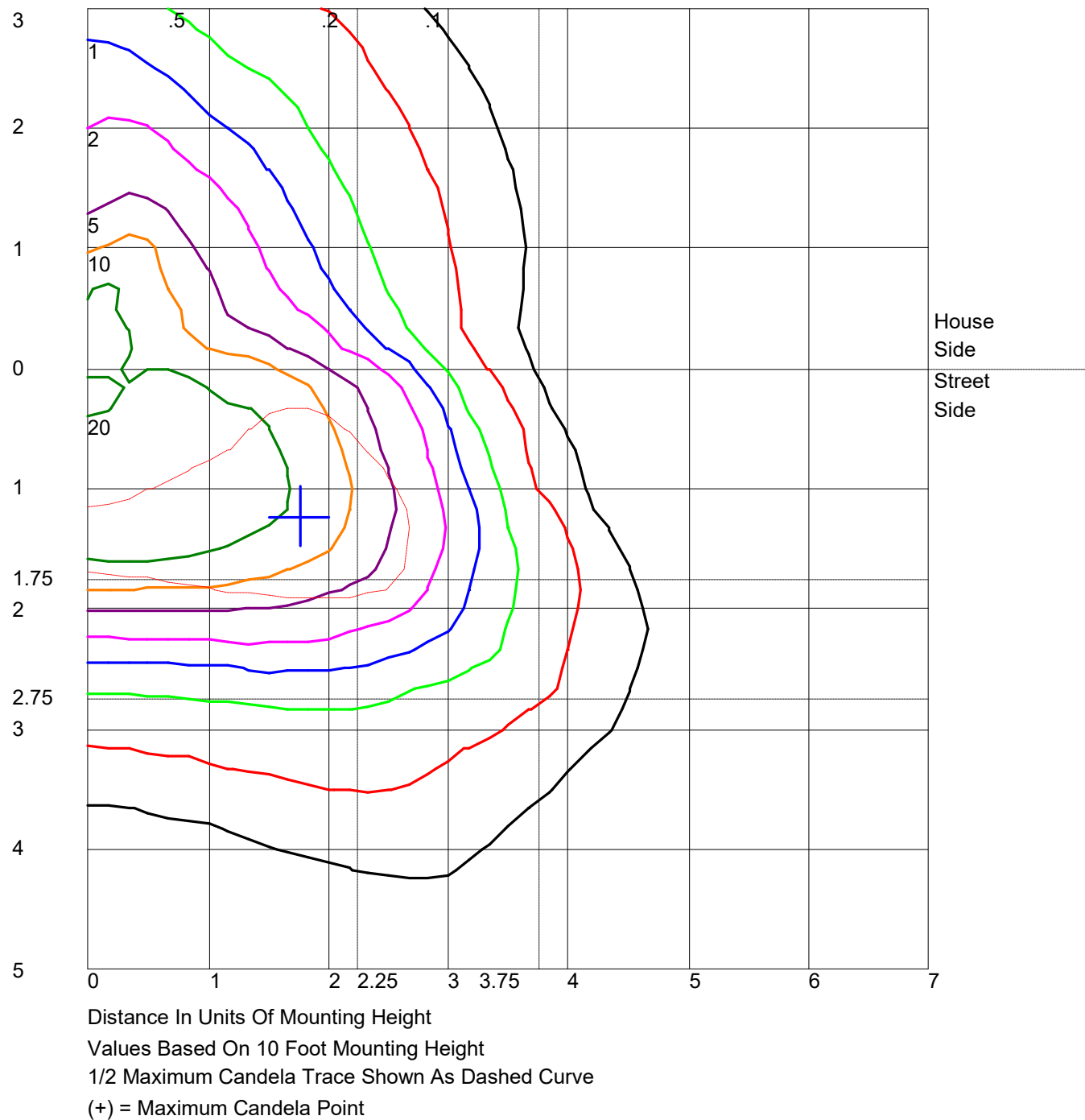
	Lumens	Percent Of Luminaire
Downward Street Side	19885.9	77.3
Downward House Side	5835.6	22.7
Downward Total	25721.5	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	25721.5	100.0

POLAR GRAPH



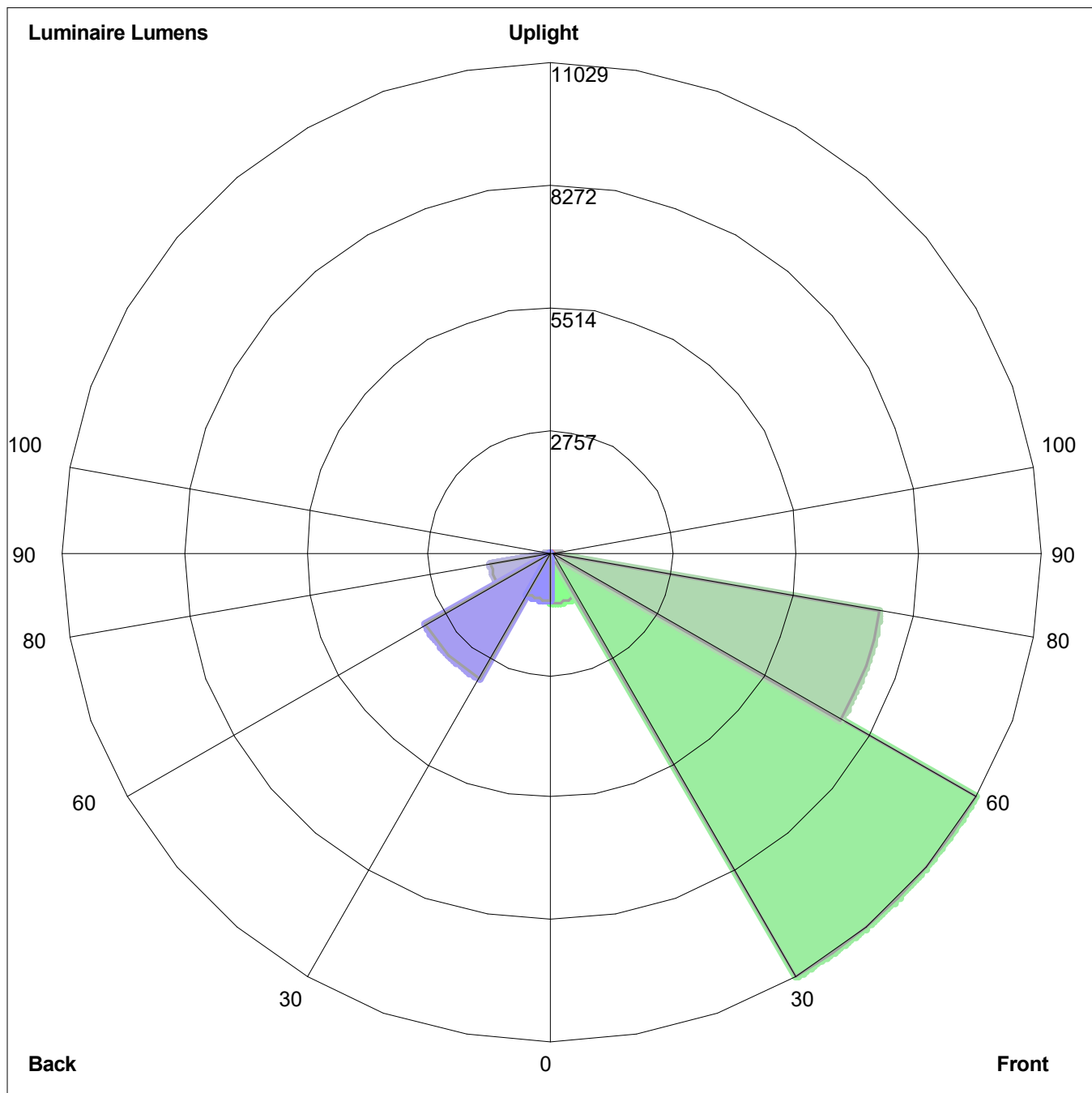
Maximum Candela = 23359 Located At Horizontal Angle = 55, Vertical Angle = 65  
# 1 - Vertical Plane Through Horizontal Angles (55 - 235) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=1136.5, Medium=11028.9, High=7533.3, Very High=187.3  
Back: Low=1083.7, Medium=3252.5, High=1378.2, Very High=121.2  
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G4