



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-SAX-3-LED-25L-50.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-50
[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	30407
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	134
Total Luminaire Watts	227.7
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	27614
Maximum Candela Angle	55H 65V
Maximum Candela (<90 Degrees Vertical)	27614
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	1603 (5.3% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1343.5	N.A.	4.4
FM - Front-Medium (30-60)	13038.0	N.A.	42.9
FH - Front-High (60-80)	8905.6	N.A.	29.3
FVH - Front-Very High (80-90)	221.4	N.A.	0.7
BL - Back-Low (0-30)	1281.1	N.A.	4.2
BM - Back-Medium (30-60)	3845.0	N.A.	12.6
BH - Back-High (60-80)	1629.3	N.A.	5.4
BVH - Back-Very High (80-90)	143.2	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	30407.1	N.A.	100.0
BUG Rating	B3-U0-G4		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>5.0</u>	<u>15.0</u>	<u>25.0</u>	<u>35.0</u>	<u>45.0</u>	<u>52.5</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	2533	2533	2533	2533	2533	2533	2533	2533	2533	2533
2.5	2463	2476	2493	2493	2492	2508	2499	2506	2519	2519
5.0	2416	2414	2433	2442	2457	2472	2466	2487	2501	2509
7.5	2335	2330	2346	2372	2409	2433	2446	2464	2484	2511
10.0	2270	2268	2284	2315	2361	2402	2417	2442	2479	2519
12.5	2241	2246	2265	2297	2345	2398	2422	2445	2492	2537
15.0	2268	2282	2306	2338	2394	2457	2484	2503	2540	2575
17.5	2387	2403	2427	2475	2527	2590	2605	2623	2644	2658
20.0	2634	2646	2667	2711	2764	2821	2831	2847	2852	2821
22.5	3019	3036	3057	3088	3157	3193	3221	3213	3219	3111
25.0	3556	3538	3563	3651	3713	3748	3776	3752	3732	3551
27.5	4219	4202	4210	4311	4412	4468	4487	4447	4387	4053
30.0	4845	4859	4893	5039	5187	5279	5291	5260	5087	4630
32.5	5423	5468	5545	5772	6019	6153	6130	6092	5810	5206
35.0	6098	6107	6218	6516	6840	7014	6968	6922	6524	5761
37.5	6884	6913	7082	7327	7679	7903	7804	7755	7189	6283
40.0	7825	7889	8051	8260	8569	8812	8685	8560	7791	6715
42.5	9058	9116	9263	9396	9572	9764	9483	9328	8326	7095
45.0	10568	10695	10819	10900	10947	10793	10299	10072	8879	7492
47.5	12616	12746	12910	12991	12711	12100	11276	10962	9533	8043
50.0	14493	14617	14955	15261	14910	13793	12666	12152	10342	9032
52.5	16455	16371	17248	18040	17689	15841	14405	13795	11880	10765
55.0	17142	17263	18474	20079	20275	18505	16938	16467	14440	12864
57.5	16455	16570	18359	20811	22277	21519	20258	19964	17775	14420
60.0	13252	13536	15348	19454	22979	24096	24352	24079	20340	15365
62.5	8678	8967	10851	15364	21391	25257	26991	26961	21978	16077
65.0	3960	3981	5515	9849	16812	23979	27315	27614	22720	15489
67.5	2146	2190	2739	4572	11045	19250	24867	25924	21372	12772
70.0	1268	1300	1651	2665	5782	12903	19076	21209	16764	9033
72.5	826	854	1088	1716	3272	7056	11630	13426	10759	4468
75.0	590	623	826	1363	2292	3643	5789	6827	4753	1622
77.5	436	460	628	1150	1937	2177	2743	3032	2302	861
80.0	312	333	490	957	1603	1476	1322	1419	1246	501
82.5	212	233	365	721	1213	941	756	763	677	359
85.0	160	170	265	527	721	503	382	385	393	223
87.5	171	194	191	357	399	159	165	157	142	110
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	<u>85.0</u>	<u>90.0</u>	<u>95.0</u>	<u>105.0</u>	<u>115.0</u>	<u>125.0</u>	<u>135.0</u>	<u>145.0</u>	<u>155.0</u>	<u>165.0</u>
0.0	2533	2533	2533	2533	2533	2533	2533	2533	2533	2533
2.5	2543	2547	2551	2550	2564	2583	2579	2586	2589	2586
5.0	2541	2550	2568	2589	2625	2661	2676	2688	2709	2701
7.5	2544	2568	2598	2628	2694	2735	2774	2791	2813	2816
10.0	2566	2587	2619	2673	2751	2807	2856	2880	2893	2904
12.5	2570	2604	2637	2713	2800	2875	2922	2942	2964	2983
15.0	2598	2611	2652	2746	2847	2921	2969	3011	3033	3047
17.5	2662	2660	2691	2789	2877	2954	3022	3083	3099	3102
20.0	2782	2771	2764	2820	2903	3010	3068	3128	3154	3135
22.5	2973	2915	2882	2865	2929	3070	3122	3192	3235	3198
25.0	3256	3127	3012	2910	2954	3114	3180	3274	3356	3334
27.5	3606	3378	3190	2927	2971	3160	3233	3342	3521	3536

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CANDELA TABULATION - (Cont.)

30.0	3982	3643	3348	2941	2975	3198	3276	3433	3765	3857
32.5	4343	3895	3473	2926	2958	3211	3288	3556	4096	4235
35.0	4699	4130	3605	2885	2918	3197	3276	3642	4405	4481
37.5	4986	4310	3677	2837	2853	3151	3254	3639	4616	4748
40.0	5266	4439	3714	2774	2759	3067	3189	3559	4859	4930
42.5	5518	4590	3763	2698	2654	2963	3084	3425	5144	4734
45.0	5830	4804	3852	2673	2542	2849	2966	3295	5273	4461
47.5	6433	5271	4079	2690	2432	2736	2868	3189	5031	4218
50.0	7433	5976	4396	2707	2330	2613	2775	3124	4595	4029
52.5	8725	6757	4762	2723	2214	2455	2650	2994	4096	3845
55.0	9843	7399	4970	2677	2076	2285	2504	2807	3589	3688
57.5	10640	7724	4915	2519	1913	2101	2336	2628	3113	3477
60.0	11232	7701	4467	2278	1752	1910	2146	2421	2655	3264
62.5	11284	7022	3463	1956	1603	1728	1944	2165	2332	3062
65.0	9990	5890	2609	1627	1461	1562	1720	1989	2061	2817
67.5	7637	4515	1931	1350	1304	1412	1530	1821	1844	2503
70.0	4549	2682	1263	1086	1116	1212	1341	1645	1645	2143
72.5	1751	1160	762	846	945	1032	1153	1453	1414	1772
75.0	839	638	570	701	797	886	984	1139	1100	1340
77.5	421	388	439	593	679	753	800	682	602	824
80.0	302	293	358	502	558	552	542	472	390	516
82.5	213	211	280	409	424	314	296	327	260	387
85.0	128	130	202	309	240	201	196	173	130	247
87.5	58	57	127	162	111	97	66	78	58	122
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

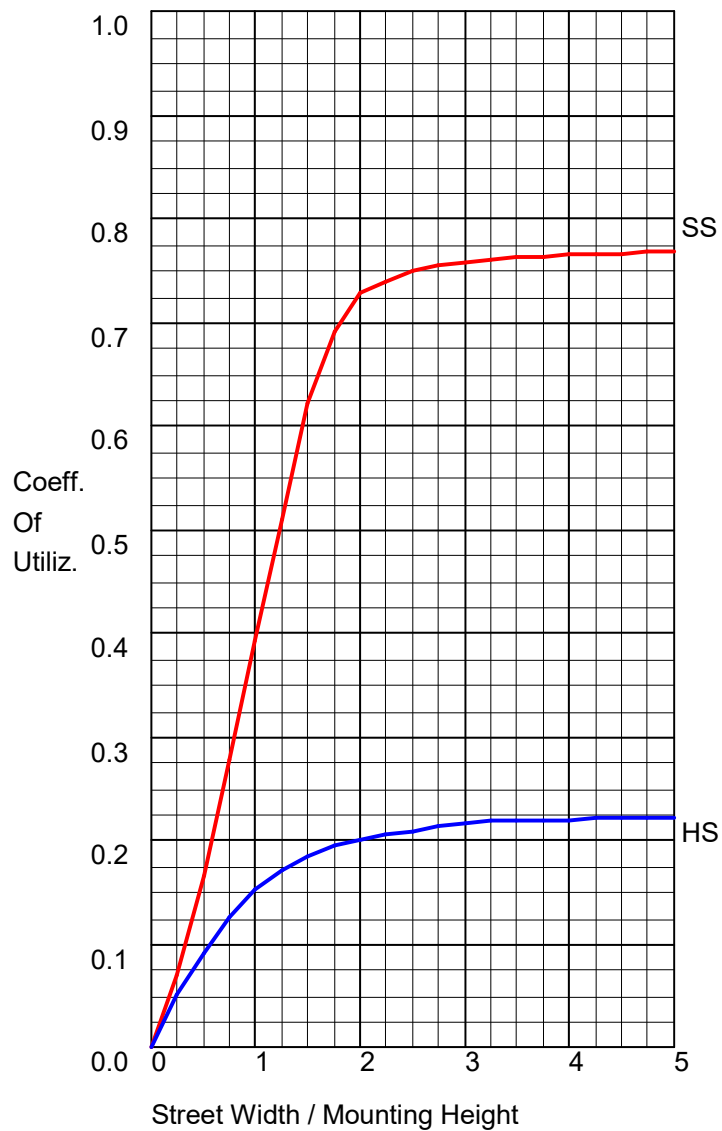
	<u>175.0</u>	<u>180.0</u>
0.0	2533	2533
2.5	2581	2584
5.0	2697	2706
7.5	2808	2817
10.0	2892	2895
12.5	2969	2969
15.0	3036	3037
17.5	3088	3090
20.0	3125	3120
22.5	3181	3172
25.0	3283	3259
27.5	3436	3408
30.0	3687	3652
32.5	3992	3940
35.0	4202	4145
37.5	4188	4080
40.0	3882	3742
42.5	3423	3273
45.0	3110	2923
47.5	2917	2754
50.0	2836	2656
52.5	2778	2561
55.0	2758	2506
57.5	2729	2433
60.0	2795	2465
62.5	2872	2583
65.0	2945	2735

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CANDELA TABULATION - (Cont.)

67.5	2981	2884
70.0	2845	2944
72.5	2356	2604
75.0	1725	2036
77.5	1342	1511
80.0	990	1056
82.5	710	727
85.0	501	519
87.5	593	816
90.0	0	0

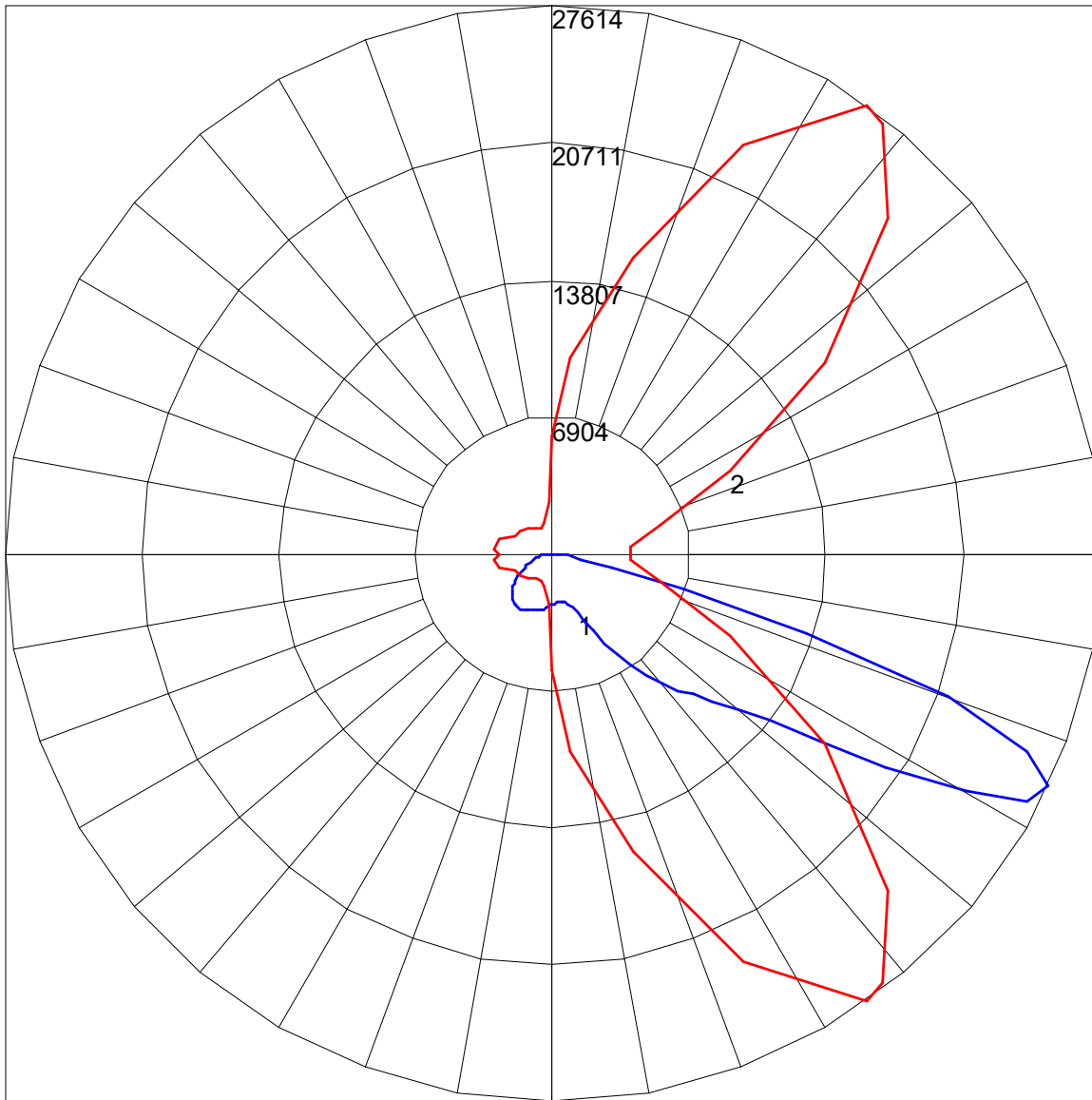
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FLUX DISTRIBUTION

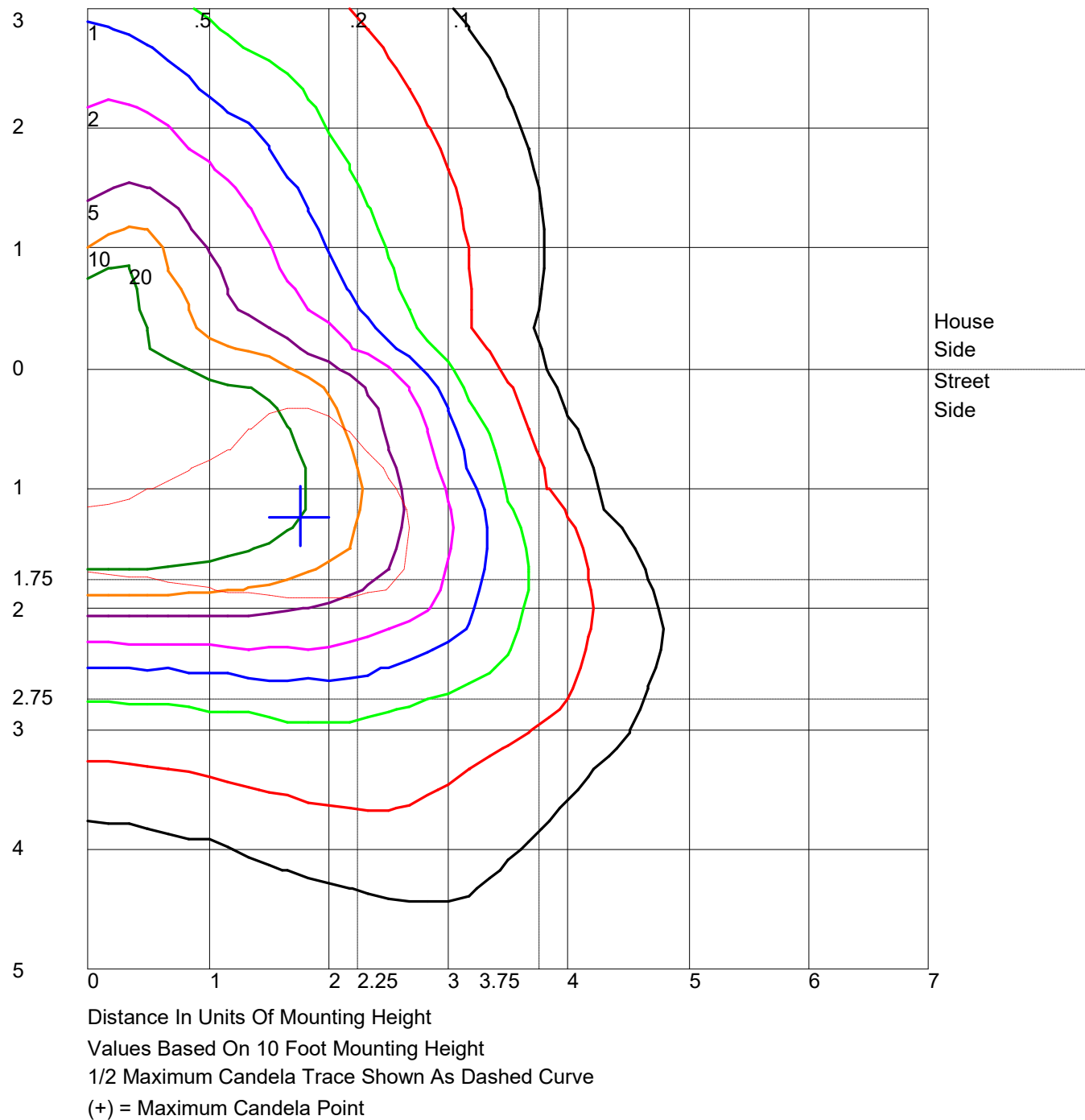
	Lumens	Percent Of Luminaire
Downward Street Side	23508.5	77.3
Downward House Side	6898.6	22.7
Downward Total	30407.1	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	30407.1	100.0

POLAR GRAPH

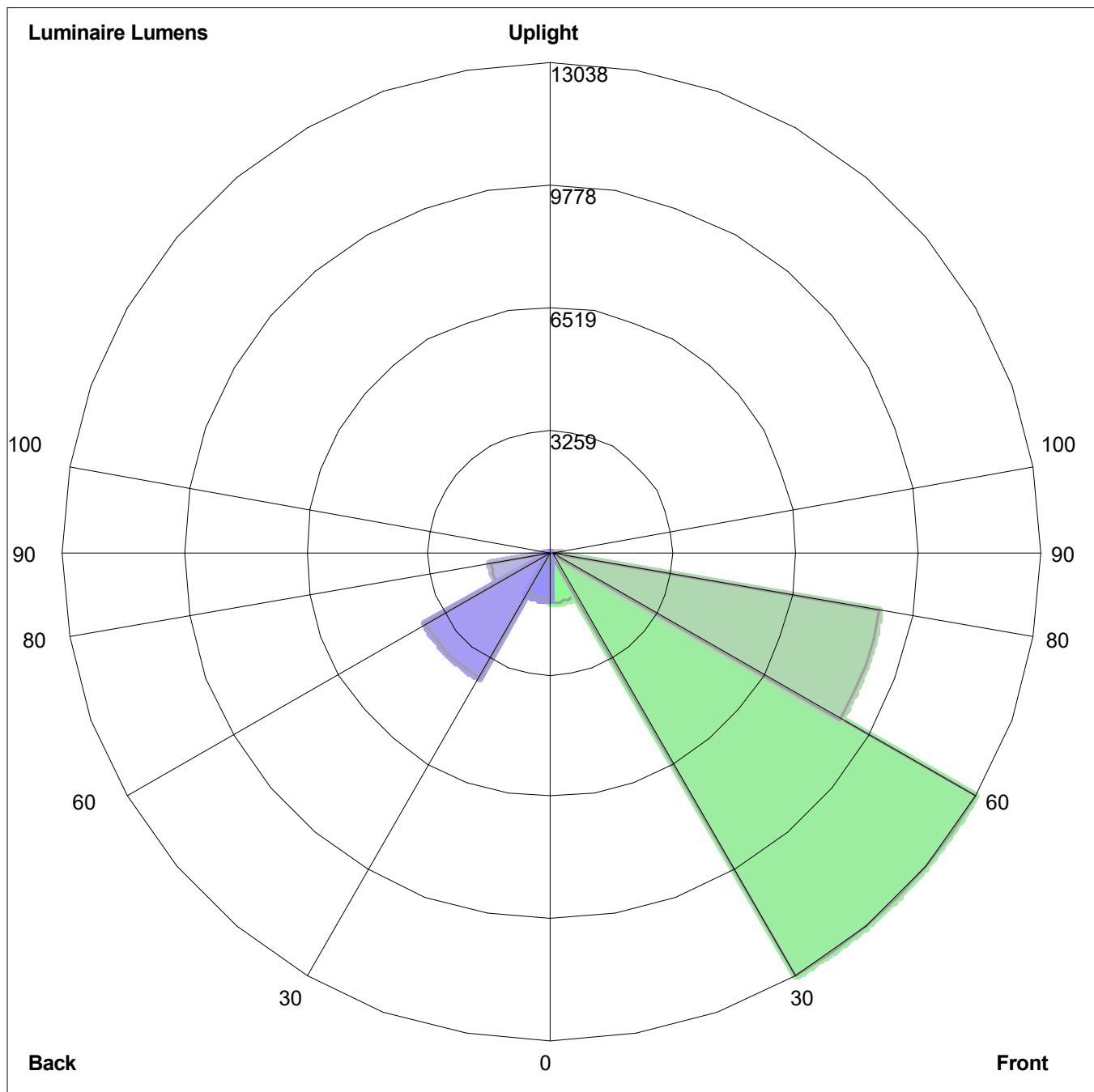


Maximum Candela = 27614 Located At Horizontal Angle = 55, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (55 - 235) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1343.5, Medium= 13038.0, High=8905.6, Very High=221.4
Back: Low=1281.1, Medium= 3845.0, High=1629.3, Very High=143.2
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G4