



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-SAX-3-LED-25L-40.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

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] ENM4-SAX-3-LED-25L-40

[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	28959
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	227.7
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	26299
Maximum Candela Angle	55H 65V
Maximum Candela (<90 Degrees Vertical)	26299
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	1527 (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)	1279.5	N.A.	4.4
FM - Front-Medium (30-60)	12417.1	N.A.	42.9
FH - Front-High (60-80)	8481.5	N.A.	29.3
FVH - Front-Very High (80-90)	210.8	N.A.	0.7
BL - Back-Low (0-30)	1220.1	N.A.	4.2
BM - Back-Medium (30-60)	3661.9	N.A.	12.6
BH - Back-High (60-80)	1551.8	N.A.	5.4
BVH - Back-Very High (80-90)	136.4	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	28959.1	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	2412	2412	2412	2412	2412	2412	2412	2412	2412	2412
2.5	2346	2358	2374	2374	2373	2389	2380	2387	2399	2399
5.0	2301	2299	2317	2326	2340	2354	2349	2369	2382	2390
7.5	2224	2219	2234	2259	2294	2317	2330	2347	2366	2391
10.0	2162	2160	2175	2205	2249	2288	2302	2326	2361	2399
12.5	2134	2139	2157	2188	2233	2284	2307	2329	2373	2416
15.0	2160	2173	2196	2227	2280	2340	2366	2384	2419	2452
17.5	2273	2289	2311	2357	2407	2467	2481	2498	2518	2531
20.0	2509	2520	2540	2582	2632	2687	2696	2711	2716	2687
22.5	2875	2891	2911	2941	3007	3041	3068	3060	3066	2963
25.0	3387	3370	3393	3477	3536	3570	3596	3573	3554	3382
27.5	4018	4002	4010	4106	4202	4255	4273	4235	4178	3860
30.0	4614	4628	4660	4799	4940	5028	5039	5010	4845	4410
32.5	5165	5208	5281	5497	5732	5860	5838	5802	5533	4958
35.0	5808	5816	5922	6206	6514	6680	6636	6592	6213	5487
37.5	6556	6584	6745	6978	7313	7527	7432	7386	6847	5984
40.0	7452	7513	7668	7867	8161	8392	8271	8152	7420	6395
42.5	8627	8682	8822	8949	9116	9299	9031	8884	7930	6757
45.0	10065	10186	10304	10381	10426	10279	9809	9592	8456	7135
47.5	12015	12139	12295	12372	12106	11524	10739	10440	9079	7660
50.0	13803	13921	14243	14534	14200	13136	12063	11573	9850	8602
52.5	15671	15591	16427	17181	16847	15087	13719	13138	11314	10252
55.0	16326	16441	17594	19123	19310	17624	16131	15683	13752	12251
57.5	15671	15781	17485	19820	21216	20494	19293	19013	16929	13733
60.0	12621	12891	14617	18528	21885	22949	23192	22932	19371	14633
62.5	8265	8540	10334	14632	20372	24054	25706	25677	20931	15311
65.0	3771	3791	5252	9380	16011	22837	26014	26299	21638	14751
67.5	2044	2086	2609	4354	10519	18333	23683	24690	20354	12164
70.0	1208	1238	1572	2538	5507	12289	18168	20199	15966	8603
72.5	787	813	1036	1634	3116	6720	11076	12787	10247	4255
75.0	562	593	787	1298	2183	3470	5513	6502	4527	1545
77.5	415	438	598	1095	1845	2073	2612	2888	2192	820
80.0	297	317	467	911	1527	1406	1259	1351	1187	477
82.5	202	222	348	687	1155	896	720	727	645	342
85.0	152	162	252	502	687	479	364	367	374	212
87.5	163	185	182	340	380	151	157	150	135	105
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	2412	2412	2412	2412	2412	2412	2412	2412	2412	2412
2.5	2422	2426	2430	2429	2442	2460	2456	2463	2466	2463
5.0	2420	2429	2446	2466	2500	2534	2549	2560	2580	2572
7.5	2423	2446	2474	2503	2566	2605	2642	2658	2679	2682
10.0	2444	2464	2494	2546	2620	2673	2720	2743	2755	2766
12.5	2448	2480	2511	2584	2667	2738	2783	2802	2823	2841
15.0	2474	2487	2526	2615	2711	2782	2828	2868	2889	2902
17.5	2535	2533	2563	2656	2740	2813	2878	2936	2951	2954
20.0	2650	2639	2632	2686	2765	2867	2922	2979	3004	2986
22.5	2831	2776	2745	2729	2790	2924	2973	3040	3081	3046
25.0	3101	2978	2869	2771	2813	2966	3029	3118	3196	3175
27.5	3434	3217	3038	2788	2830	3010	3079	3183	3353	3368

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CANDELA TABULATION - (Cont.)

30.0	3792	3470	3189	2801	2833	3046	3120	3270	3586	3673
32.5	4136	3710	3308	2787	2817	3058	3131	3387	3901	4033
35.0	4475	3933	3433	2748	2779	3045	3120	3469	4195	4268
37.5	4749	4105	3502	2702	2717	3001	3099	3466	4396	4522
40.0	5015	4228	3537	2642	2628	2921	3037	3390	4628	4695
42.5	5255	4371	3584	2570	2528	2822	2937	3262	4899	4509
45.0	5552	4575	3669	2546	2421	2713	2825	3138	5022	4249
47.5	6127	5020	3885	2562	2316	2606	2731	3037	4791	4017
50.0	7079	5691	4187	2578	2219	2489	2643	2975	4376	3837
52.5	8310	6435	4535	2593	2109	2338	2524	2851	3901	3662
55.0	9374	7047	4733	2550	1977	2176	2385	2673	3418	3512
57.5	10133	7356	4681	2399	1822	2001	2225	2503	2965	3311
60.0	10697	7334	4254	2170	1669	1819	2044	2306	2529	3109
62.5	10747	6688	3298	1863	1527	1646	1851	2062	2221	2916
65.0	9514	5610	2485	1550	1391	1488	1638	1894	1963	2683
67.5	7273	4300	1839	1286	1242	1345	1457	1734	1756	2384
70.0	4332	2554	1203	1034	1063	1154	1277	1567	1567	2041
72.5	1668	1105	726	806	900	983	1098	1384	1347	1688
75.0	799	608	543	668	759	844	937	1085	1048	1276
77.5	401	370	418	565	647	717	762	650	573	785
80.0	288	279	341	478	531	526	516	450	371	491
82.5	203	201	267	390	404	299	282	311	248	369
85.0	122	124	192	294	229	191	187	165	124	235
87.5	55	54	121	154	106	92	63	74	55	116
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

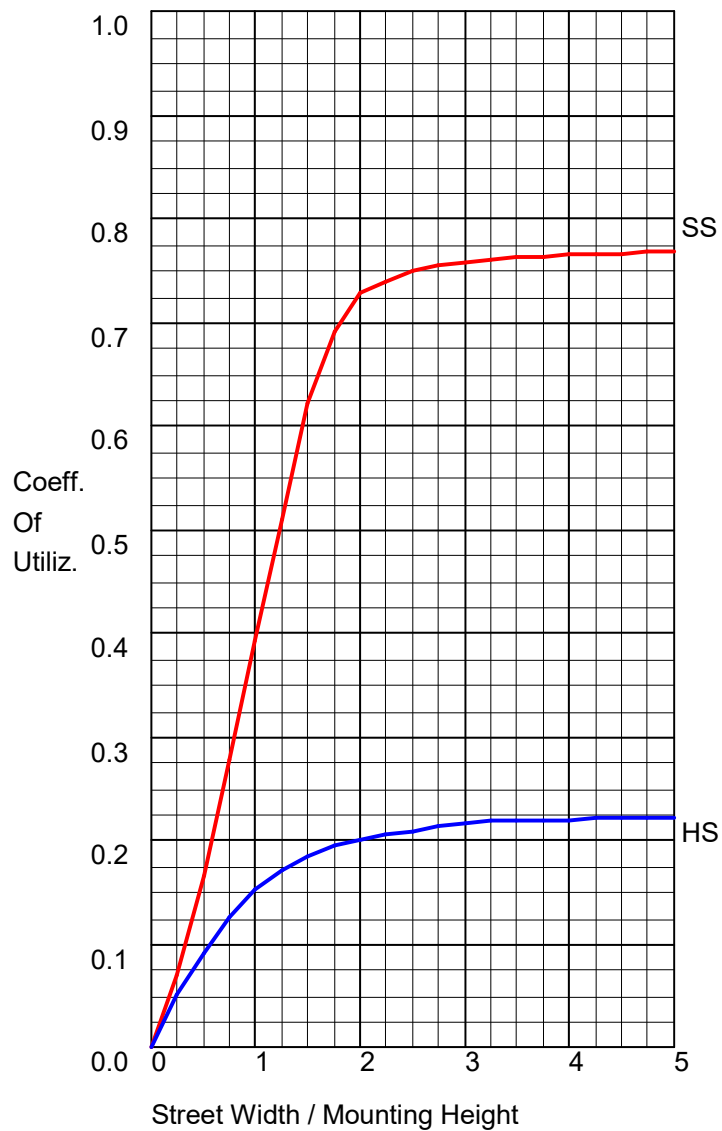
	<u>175.0</u>	<u>180.0</u>
0.0	2412	2412
2.5	2458	2461
5.0	2569	2577
7.5	2674	2683
10.0	2754	2757
12.5	2828	2828
15.0	2891	2892
17.5	2941	2943
20.0	2976	2971
22.5	3030	3021
25.0	3127	3104
27.5	3272	3246
30.0	3511	3478
32.5	3802	3752
35.0	4002	3948
37.5	3989	3886
40.0	3697	3564
42.5	3260	3117
45.0	2962	2784
47.5	2778	2623
50.0	2701	2530
52.5	2646	2439
55.0	2627	2387
57.5	2599	2317
60.0	2662	2348
62.5	2735	2460
65.0	2805	2605

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CANDELA TABULATION - (Cont.)

67.5	2839	2747
70.0	2710	2804
72.5	2244	2480
75.0	1643	1939
77.5	1278	1439
80.0	943	1006
82.5	676	692
85.0	477	494
87.5	565	777
90.0	0	0

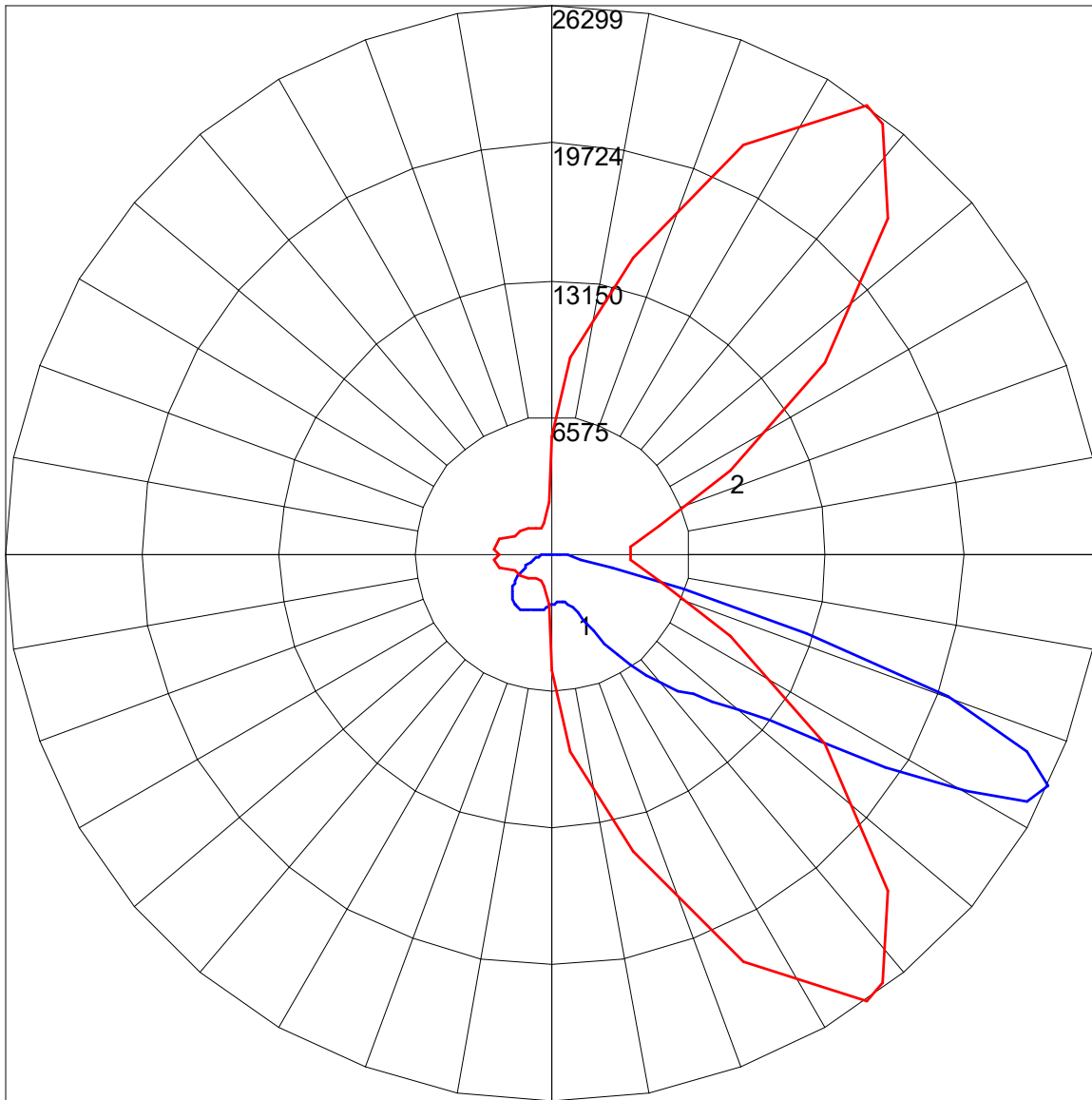
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

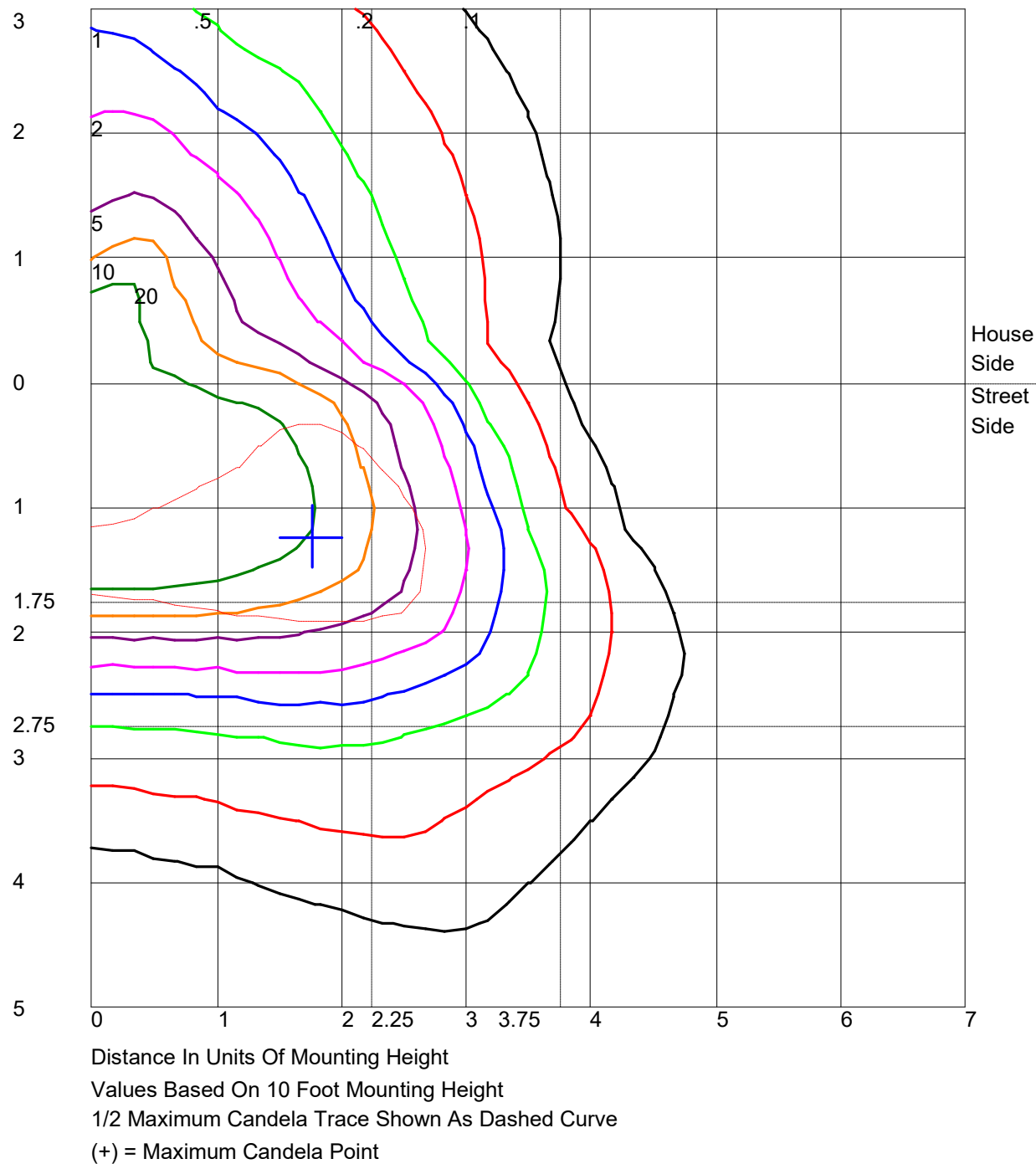
	Lumens	Percent Of Luminaire
Downward Street Side	22389.0	77.3
Downward House Side	6570.2	22.7
Downward Total	28959.2	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	28959.2	100.0

POLAR GRAPH

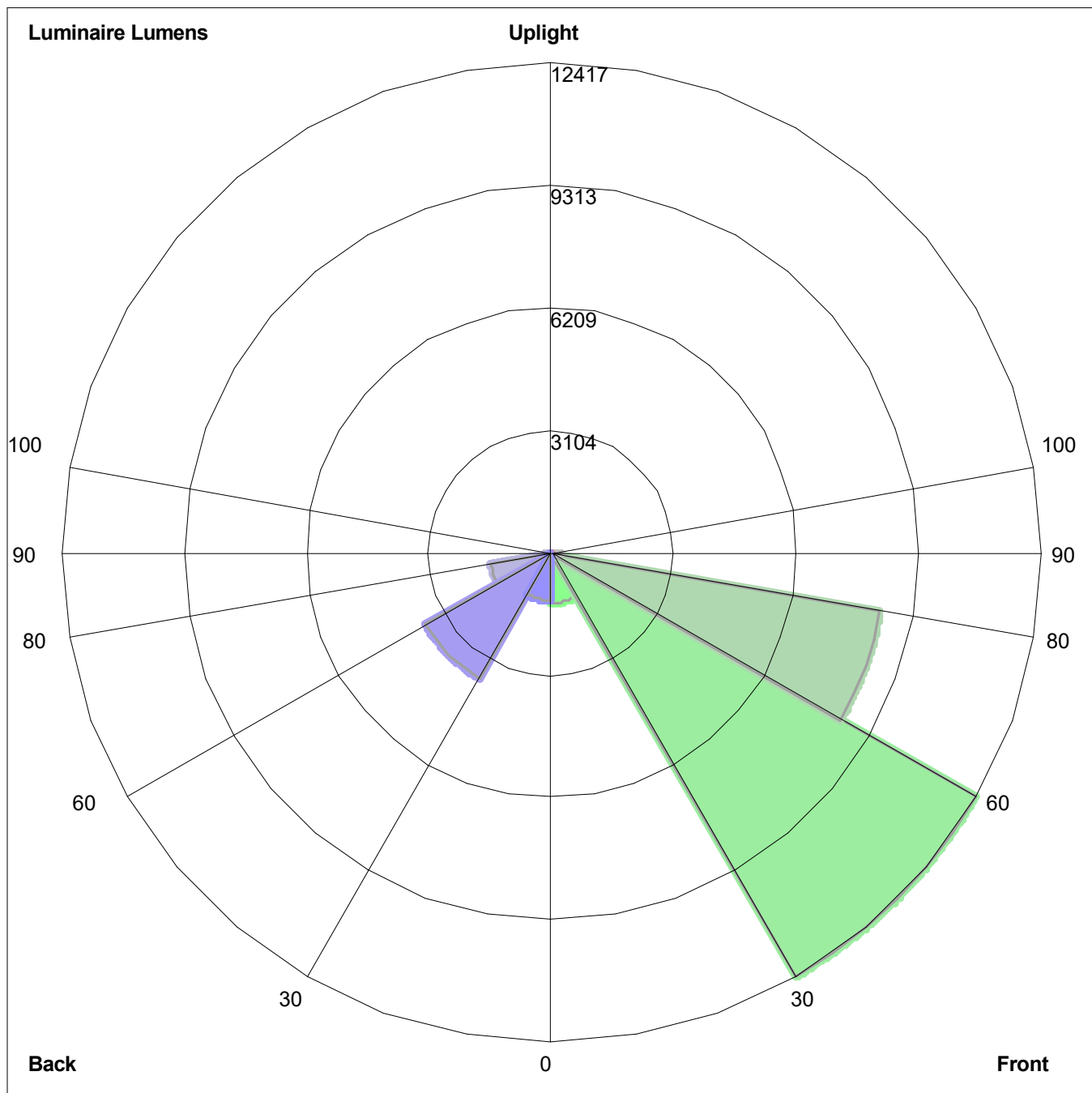


Maximum Candela = 26299 Located At Horizontal Angle = 55, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (55 - 235) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1279.5, Medium=12417.1, High=8481.5, Very High=210.8
Back: Low=1220.1, Medium=3661.9, High=1551.8, Very High=136.4
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G4