



IES ROAD REPORT
PHOTOMETRIC FILENAME : ENM4-SAX-3-LED-05L-30.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11780
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/10/2020
[TEST DATE] 04/29/20
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] ENM4-SAX-3-LED-05L-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	Medium
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5329
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	136
Total Luminaire Watts	39.3
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	5025
Maximum Candela Angle	57.5H 70V
Maximum Candela (<90 Degrees Vertical)	5025
Maximum Candela Angle (<90 Degrees Vertical)	57.5H 70V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	551 (10.3% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	219.7	N.A.	4.1
FM - Front-Medium (30-60)	2065.9	N.A.	38.8
FH - Front-High (60-80)	1857.3	N.A.	34.9
FVH - Front-Very High (80-90)	46.3	N.A.	0.9
BL - Back-Low (0-30)	218.9	N.A.	4.1
BM - Back-Medium (30-60)	618.7	N.A.	11.6
BH - Back-High (60-80)	278.3	N.A.	5.2
BVH - Back-Very High (80-90)	24.3	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	5329.4	N.A.	100.0
BUG Rating	B1-U0-G2		

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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>55.0</u>	<u>57.5</u>	<u>65.0</u>	<u>75.0</u>
0.0	435	435	435	435	435	435	435	435	435	435
2.5	427	428	428	429	431	432	432	432	433	434
5.0	419	419	420	421	425	428	430	431	432	433
7.5	401	402	404	408	413	420	425	427	432	435
10.0	384	384	387	393	401	411	421	423	430	436
12.5	371	371	376	382	393	405	418	421	430	438
15.0	368	368	372	380	392	406	421	424	433	443
17.5	379	379	384	392	405	420	437	440	450	458
20.0	412	411	417	426	440	458	473	474	483	485
22.5	472	474	475	485	499	519	530	531	533	525
25.0	554	556	559	571	595	610	613	613	607	583
27.5	657	660	670	683	712	726	719	716	700	654
30.0	783	786	794	818	848	862	841	834	800	729
32.5	909	912	929	964	996	1011	971	957	903	807
35.0	1020	1027	1059	1108	1152	1169	1111	1090	1010	889
37.5	1133	1145	1178	1248	1315	1329	1254	1232	1120	968
40.0	1247	1261	1305	1391	1471	1493	1401	1370	1231	1043
42.5	1404	1404	1456	1552	1638	1670	1547	1507	1335	1110
45.0	1606	1606	1668	1766	1835	1846	1704	1639	1437	1176
47.5	1890	1886	1957	2063	2088	2044	1849	1774	1544	1249
50.0	2239	2234	2325	2437	2423	2292	2004	1922	1655	1332
52.5	2615	2629	2713	2830	2826	2578	2181	2083	1785	1452
55.0	2907	2925	3061	3245	3230	2912	2409	2289	1960	1639
57.5	3100	3123	3316	3564	3639	3296	2722	2592	2235	1941
60.0	2924	2958	3230	3645	3958	3734	3173	3037	2669	2394
62.5	2222	2218	2579	3247	3959	4144	3779	3696	3238	2841
65.0	1194	1188	1519	2306	3511	4373	4512	4445	3787	3095
67.5	537	569	696	1190	2466	3996	4995	4905	4139	3152
70.0	278	297	378	602	1278	3063	4907	5025	4152	2610
72.5	156	163	221	375	721	1766	3929	4108	3279	1313
75.0	105	111	144	244	474	937	2422	2552	1562	448
77.5	77	80	108	198	357	548	1110	1107	667	211
80.0	55	58	83	159	282	335	530	551	337	108
82.5	36	38	63	118	211	205	206	216	150	71
85.0	26	28	46	89	126	114	80	95	80	43
87.5	21	23	33	67	74	37	28	29	27	22
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	435	435	435	435	435	435	435	435	435	435
2.5	436	437	437	439	441	442	443	444	445	444
5.0	437	439	441	445	452	458	462	465	468	469
7.5	438	441	443	453	463	473	481	487	494	496
10.0	440	442	446	460	474	488	501	506	510	511
12.5	443	444	449	466	484	502	513	517	520	523
15.0	448	448	452	472	494	512	521	526	532	535
17.5	461	457	458	479	503	519	529	535	541	543
20.0	480	473	469	485	508	527	537	542	547	547
22.5	507	494	484	493	511	533	544	548	549	549
25.0	545	522	505	496	511	539	551	552	554	554
27.5	589	553	525	498	508	544	557	559	561	564

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CANDELA TABULATION - (Cont.)

30.0	633	586	544	496	504	546	560	565	573	582
32.5	677	614	559	490	497	548	563	574	593	614
35.0	723	644	570	480	488	544	564	588	624	661
37.5	768	668	580	467	476	536	563	592	641	690
40.0	809	690	585	452	462	525	550	582	668	713
42.5	847	709	587	434	443	506	528	571	717	706
45.0	885	729	590	420	425	485	506	563	775	666
47.5	932	756	599	407	406	463	488	552	795	637
50.0	1001	804	622	401	388	442	472	540	784	616
52.5	1093	870	659	401	372	422	453	517	741	602
55.0	1240	976	720	404	357	403	432	485	680	587
57.5	1419	1129	779	404	339	379	408	441	603	560
60.0	1717	1320	799	385	315	348	379	397	512	544
62.5	2020	1412	699	340	287	310	339	348	421	525
65.0	2219	1353	548	285	258	272	290	308	341	498
67.5	2080	1095	383	230	224	239	251	276	286	460
70.0	1324	626	241	190	192	203	218	248	258	399
72.5	470	250	133	152	162	169	179	218	222	304
75.0	203	122	97	121	133	142	151	181	143	192
77.5	92	69	69	100	111	120	115	107	93	132
80.0	61	48	56	82	91	86	67	81	68	95
82.5	41	34	43	68	72	52	50	60	42	68
85.0	24	20	32	53	37	35	35	27	20	41
87.5	11	8	22	29	18	16	11	11	8	20
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

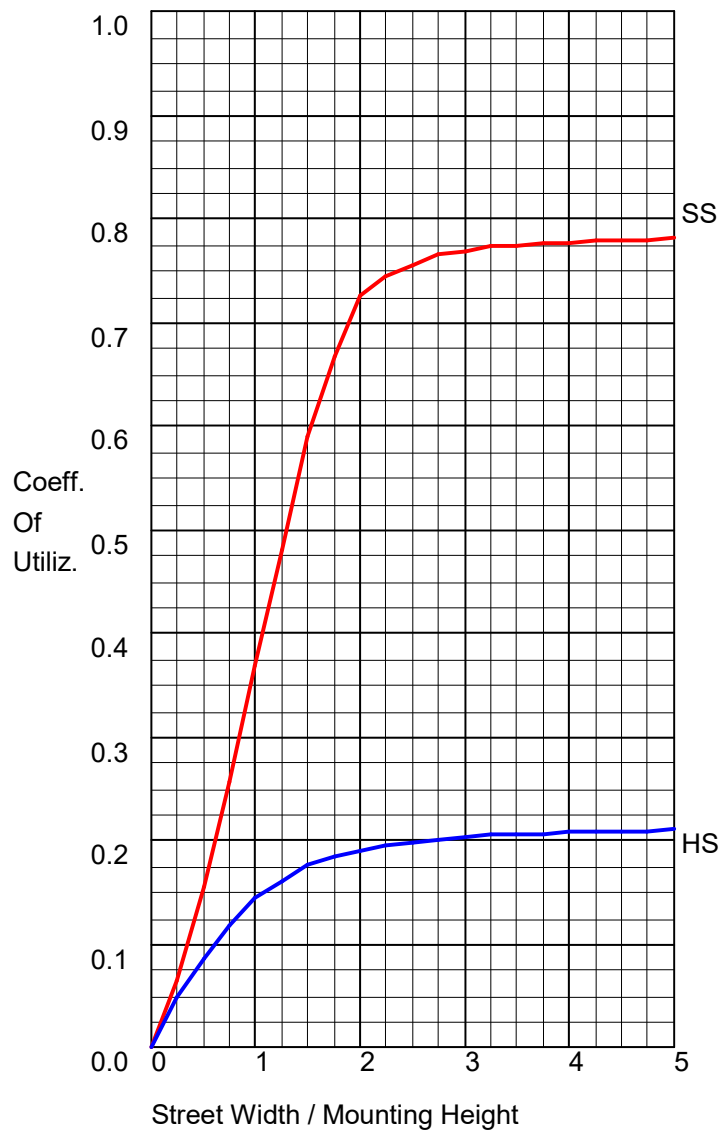
	<u>175.0</u>	<u>180.0</u>
0.0	435	435
2.5	443	444
5.0	469	469
7.5	496	496
10.0	510	511
12.5	523	523
15.0	535	536
17.5	543	543
20.0	546	546
22.5	549	549
25.0	554	555
27.5	564	565
30.0	584	585
32.5	620	619
35.0	670	671
37.5	667	662
40.0	633	618
42.5	555	542
45.0	517	501
47.5	490	469
50.0	468	446
52.5	448	421
55.0	424	390
57.5	398	358
60.0	389	345
62.5	390	345
65.0	407	359

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CANDELA TABULATION - (Cont.)

67.5	439	398
70.0	456	436
72.5	417	432
75.0	337	395
77.5	282	329
80.0	215	236
82.5	147	163
85.0	102	107
87.5	64	86
90.0	0	0

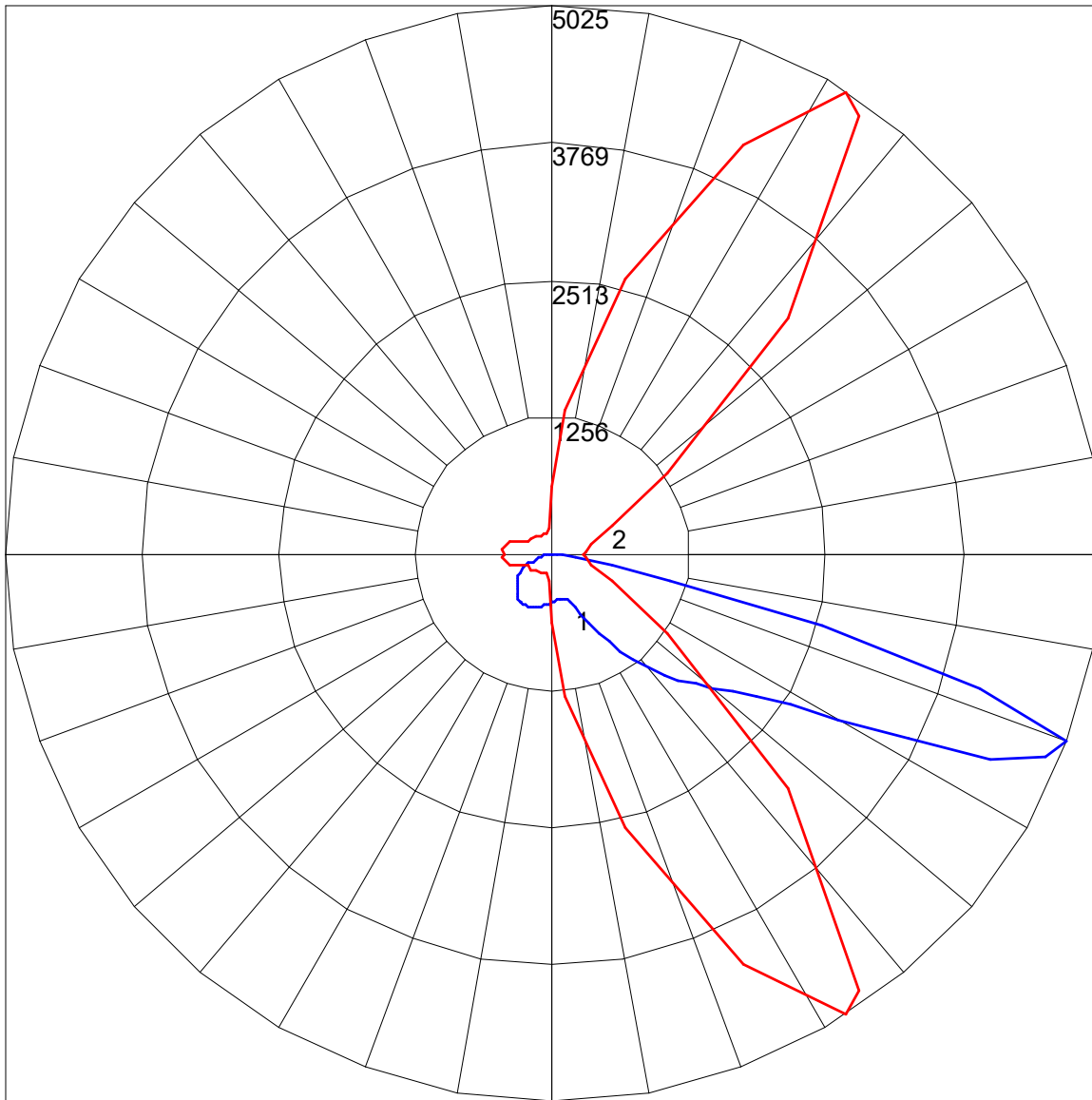
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

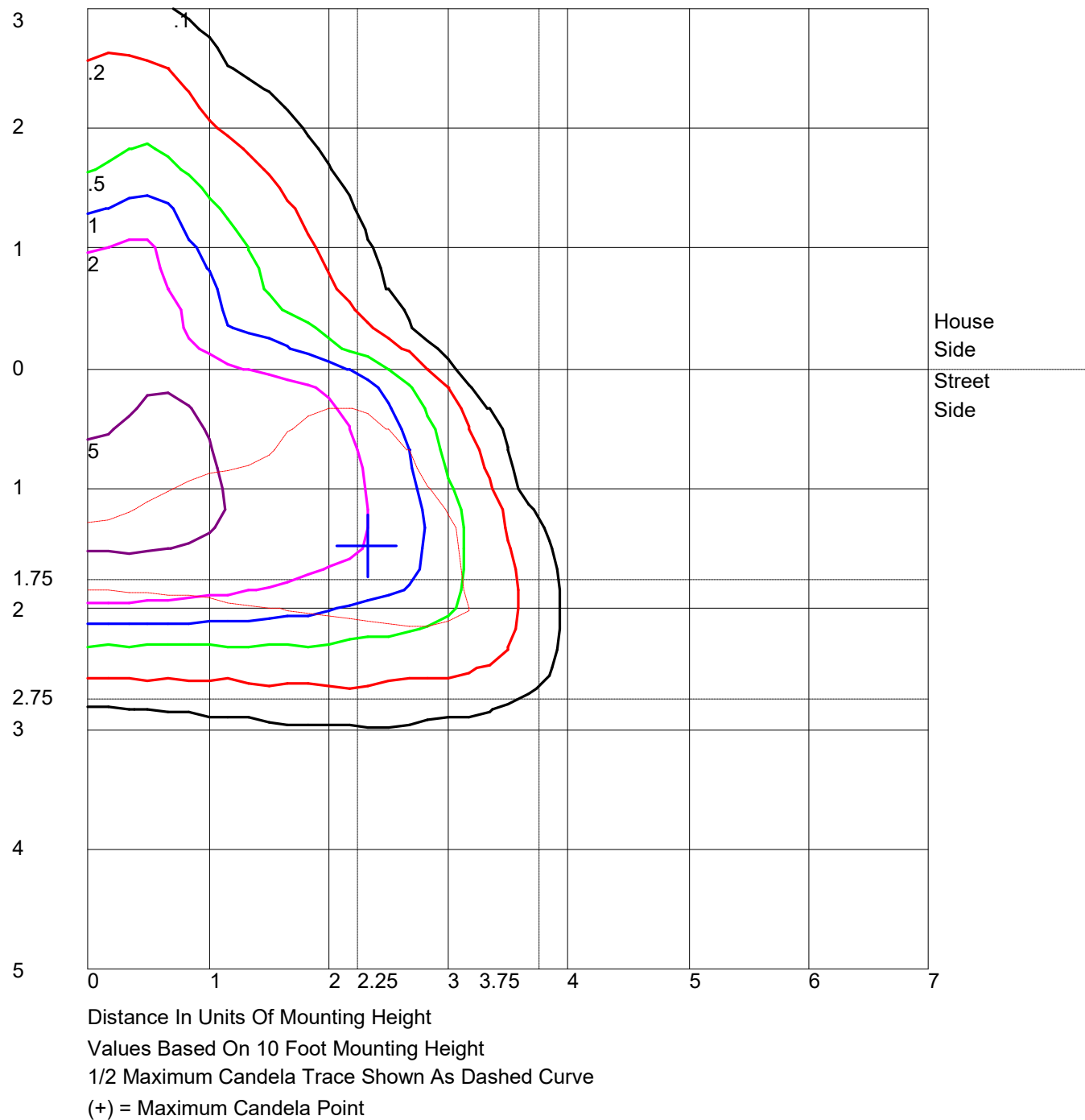
	Lumens	Percent Of Luminaire
Downward Street Side	4189.2	78.6
Downward House Side	1140.2	21.4
Downward Total	5329.4	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	5329.4	100.0

POLAR GRAPH

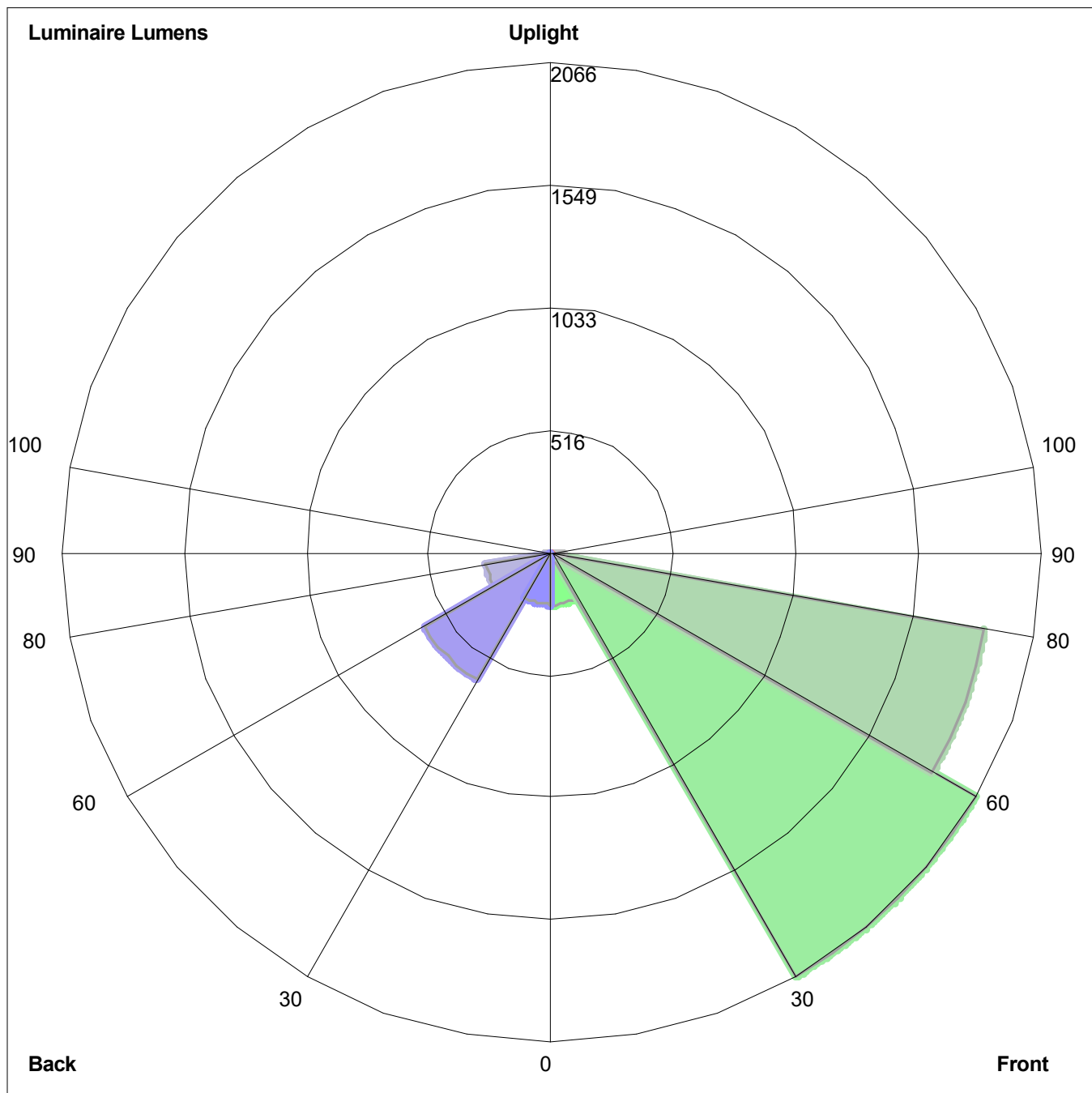


Maximum Candela = 5025 Located At Horizontal Angle = 57.5, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (57.5 - 237.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=219.7, Medium=2065.9, High=1857.3, Very High=46.3
Back: Low=218.9, Medium=618.7, High=278.3, Very High=24.3
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G2