



IES ROAD REPORT
PHOTOMETRIC FILENAME : ENM4-SAX-3-LED-05L-40.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-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	Medium
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5830
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	148
Total Luminaire Watts	39.3
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	5497
Maximum Candela Angle	57.5H 70V
Maximum Candela (<90 Degrees Vertical)	5497
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	603 (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)	240.3	N.A.	4.1
FM - Front-Medium (30-60)	2259.8	N.A.	38.8
FH - Front-High (60-80)	2031.6	N.A.	34.8
FVH - Front-Very High (80-90)	50.6	N.A.	0.9
BL - Back-Low (0-30)	239.5	N.A.	4.1
BM - Back-Medium (30-60)	676.9	N.A.	11.6
BH - Back-High (60-80)	304.4	N.A.	5.2
BVH - Back-Very High (80-90)	26.6	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	5829.7	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	476	476	476	476	476	476	476	476	476	476
2.5	467	468	468	469	471	472	472	473	474	475
5.0	458	458	459	461	465	468	470	471	473	474
7.5	439	440	442	446	452	459	465	467	472	476
10.0	420	420	423	430	439	450	460	463	470	477
12.5	406	406	411	418	430	443	457	460	470	479
15.0	402	403	407	416	429	444	460	464	474	485
17.5	415	415	420	429	443	459	478	481	492	501
20.0	451	450	456	466	481	501	517	519	528	531
22.5	516	518	520	531	546	568	580	581	583	574
25.0	606	608	611	625	651	667	671	670	664	638
27.5	719	722	733	747	779	794	787	783	766	715
30.0	856	860	869	895	928	943	920	912	875	797
32.5	994	998	1016	1055	1090	1106	1062	1047	988	883
35.0	1116	1123	1158	1212	1260	1279	1215	1192	1105	972
37.5	1239	1252	1289	1365	1438	1454	1372	1348	1225	1059
40.0	1364	1379	1428	1522	1609	1633	1532	1499	1347	1141
42.5	1536	1536	1593	1698	1792	1827	1692	1648	1460	1214
45.0	1757	1757	1824	1932	2007	2019	1864	1793	1572	1286
47.5	2067	2063	2141	2257	2284	2236	2023	1940	1689	1366
50.0	2449	2444	2543	2666	2650	2507	2192	2102	1810	1457
52.5	2860	2876	2968	3096	3091	2820	2386	2278	1953	1588
55.0	3180	3199	3348	3550	3533	3185	2635	2504	2144	1793
57.5	3391	3416	3627	3899	3981	3605	2978	2835	2445	2123
60.0	3198	3236	3533	3987	4329	4084	3471	3322	2920	2619
62.5	2431	2426	2821	3552	4331	4533	4134	4043	3542	3108
65.0	1306	1300	1662	2522	3840	4783	4935	4862	4142	3385
67.5	587	622	761	1302	2697	4371	5464	5365	4527	3448
70.0	304	325	413	658	1398	3351	5367	5497	4542	2855
72.5	171	178	242	410	789	1932	4298	4494	3587	1436
75.0	115	121	157	267	519	1025	2649	2791	1709	490
77.5	84	87	118	217	391	599	1214	1211	730	231
80.0	60	63	91	174	309	366	580	603	369	118
82.5	39	42	69	129	231	224	225	236	164	78
85.0	28	31	50	97	138	125	88	104	87	47
87.5	23	25	36	73	81	40	31	32	29	24
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	476	476	476	476	476	476	476	476	476	476
2.5	477	478	478	480	482	484	485	486	487	486
5.0	478	480	482	487	494	501	505	509	512	513
7.5	479	482	485	496	507	517	526	533	540	543
10.0	481	484	488	503	518	534	548	553	558	559
12.5	485	486	491	510	529	549	561	565	569	572
15.0	490	490	494	516	540	560	570	575	582	585
17.5	504	500	501	524	550	568	579	585	592	594
20.0	525	517	513	531	556	576	587	593	598	598
22.5	555	540	529	539	559	583	595	599	601	601
25.0	596	571	552	543	559	590	603	604	606	606
27.5	644	605	574	545	556	595	609	611	614	617

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CANDELA TABULATION - (Cont.)

30.0	692	641	595	543	551	597	613	618	627	637
32.5	740	672	611	536	544	599	616	628	649	672
35.0	791	704	624	525	534	595	617	643	683	723
37.5	840	731	634	511	521	586	616	648	701	755
40.0	885	755	640	494	505	574	602	637	731	780
42.5	927	775	642	475	485	554	578	625	784	772
45.0	968	797	645	459	465	531	554	616	848	729
47.5	1019	827	655	445	444	506	534	604	870	697
50.0	1095	880	680	439	424	484	516	591	858	674
52.5	1196	952	721	439	407	462	495	566	811	659
55.0	1356	1068	788	442	391	441	473	530	744	642
57.5	1552	1235	852	442	371	415	446	482	660	613
60.0	1878	1444	874	421	345	381	415	434	560	595
62.5	2210	1544	765	372	314	339	371	381	461	574
65.0	2427	1480	599	312	282	298	317	337	373	545
67.5	2275	1198	419	252	245	261	275	302	313	503
70.0	1448	685	264	208	210	222	238	271	282	436
72.5	514	273	145	166	177	185	196	238	243	332
75.0	222	133	106	132	146	155	165	198	156	210
77.5	101	75	76	109	121	131	126	117	102	144
80.0	67	53	61	90	100	94	73	89	74	104
82.5	45	37	47	74	79	57	55	66	46	74
85.0	26	22	35	58	40	38	38	30	22	45
87.5	12	9	24	32	20	17	12	12	9	22
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

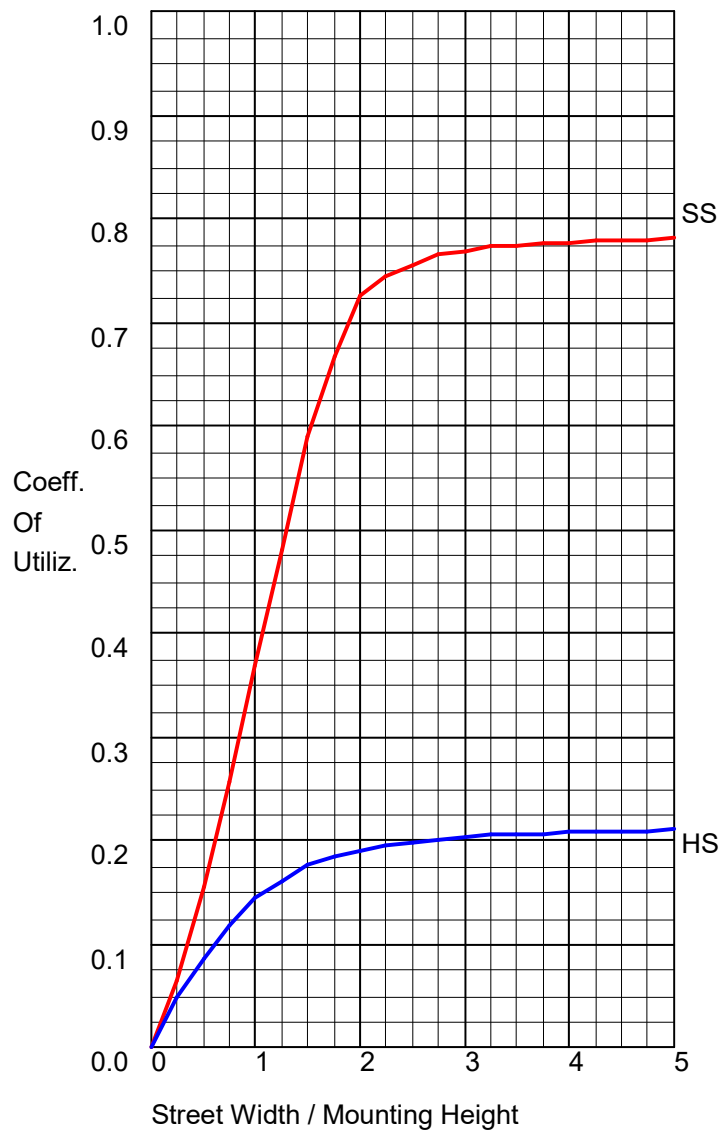
	<u>175.0</u>	<u>180.0</u>
0.0	476	476
2.5	485	486
5.0	513	513
7.5	543	543
10.0	558	559
12.5	572	572
15.0	585	586
17.5	594	594
20.0	597	597
22.5	601	601
25.0	606	607
27.5	617	618
30.0	639	640
32.5	678	677
35.0	733	734
37.5	730	724
40.0	692	676
42.5	607	593
45.0	566	548
47.5	536	513
50.0	512	488
52.5	490	461
55.0	464	427
57.5	435	392
60.0	426	377
62.5	427	377
65.0	445	393

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CANDELA TABULATION - (Cont.)

67.5	480	435
70.0	499	477
72.5	456	472
75.0	369	432
77.5	309	360
80.0	235	258
82.5	161	178
85.0	112	117
87.5	70	94
90.0	0	0

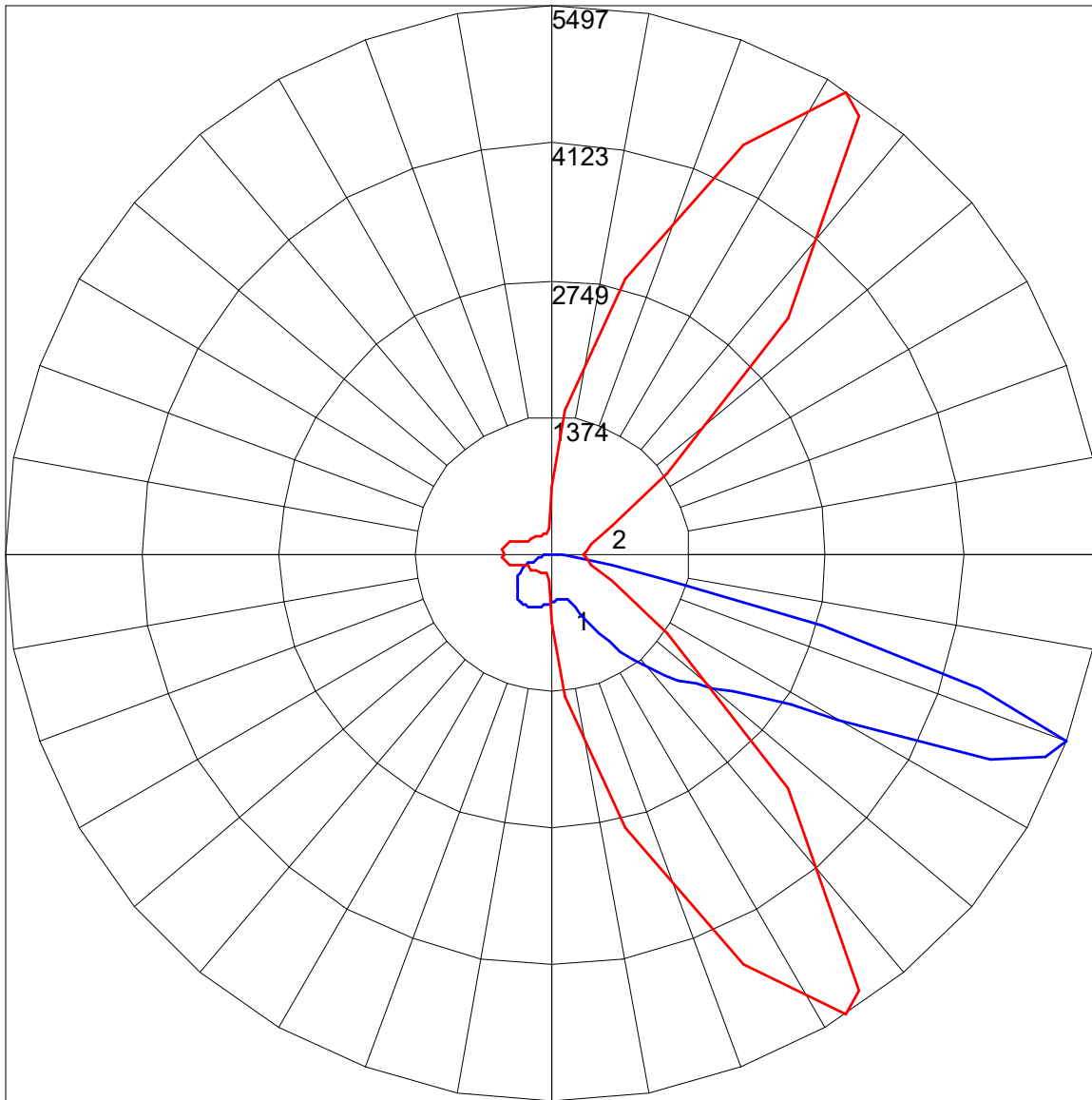
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

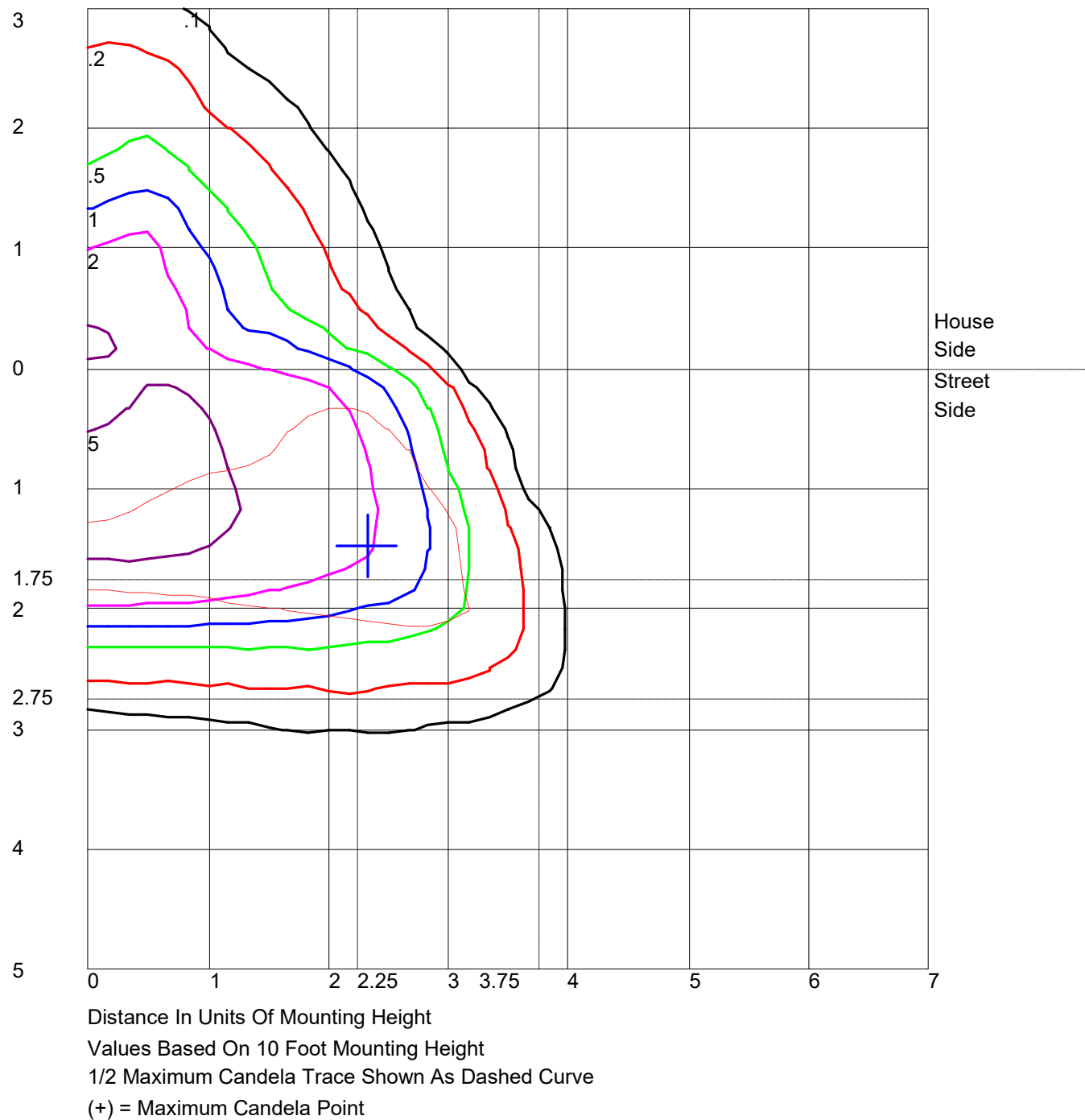
	Lumens	Percent Of Luminaire
Downward Street Side	4582.4	78.6
Downward House Side	1247.3	21.4
Downward Total	5829.7	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	5829.7	100.0

POLAR GRAPH

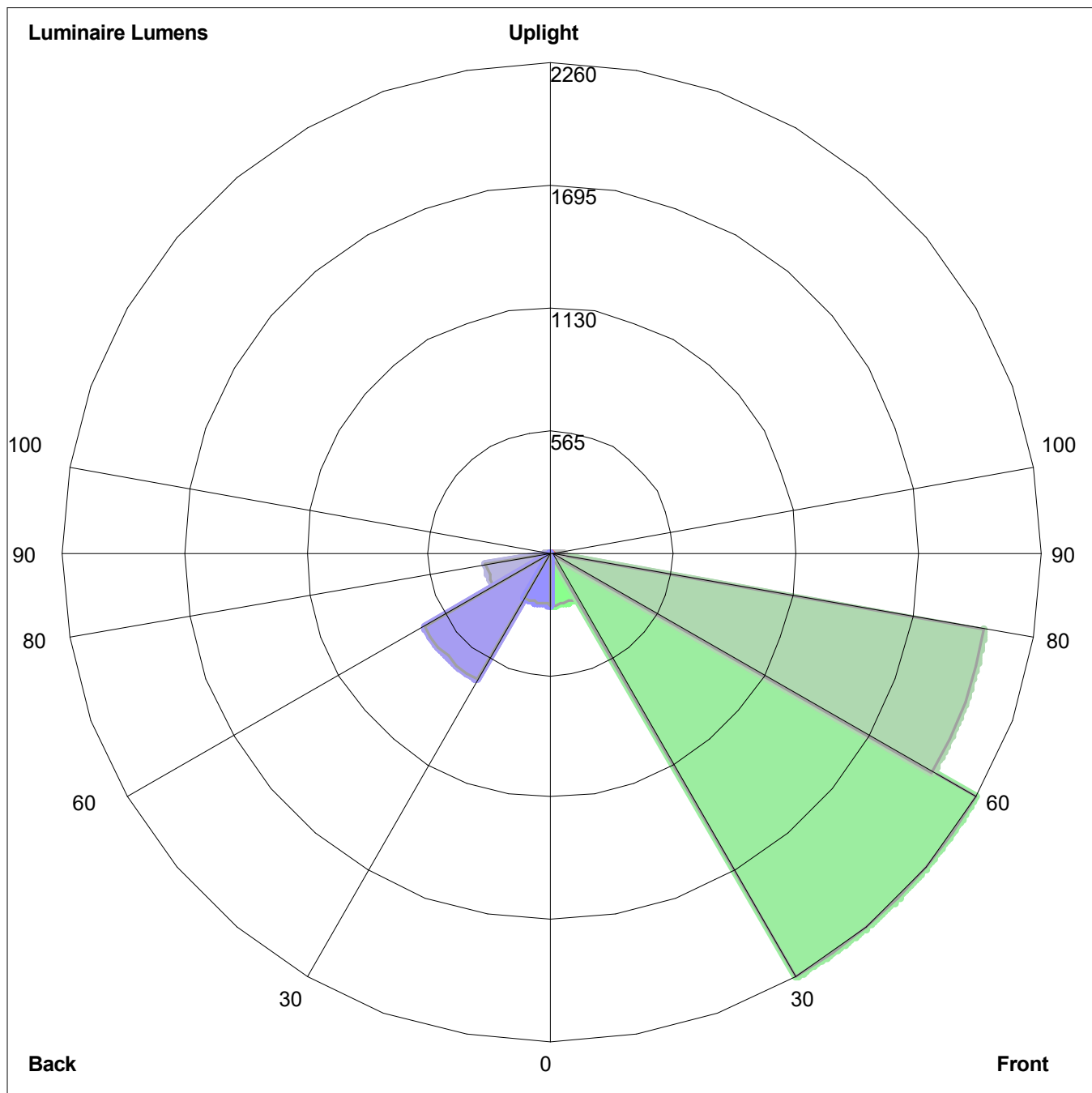


Maximum Candela = 5497 Located At Horizontal Angle = 57.5, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (57.5 - 237.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=240.3, Medium=2259.8, High=2031.6, Very High=50.6
Back: Low=239.5, Medium=676.9, High=304.4, Very High=26.6
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G2