



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-SAX-5W-LED-25L-50.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11785

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 06/10/2020

[TEST DATE] 04/30/20

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] ENM4-SAX-5W-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 VS
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	30472
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	134
Total Luminaire Watts	227.9
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	14832
Maximum Candela Angle	45H 70V
Maximum Candela (<90 Degrees Vertical)	14832
Maximum Candela Angle (<90 Degrees Vertical)	45H 70V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1231 (4.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1271.9	N.A.	4.2
FM - Front-Medium (30-60)	7048.2	N.A.	23.1
FH - Front-High (60-80)	6823.7	N.A.	22.4
FVH - Front-Very High (80-90)	92.0	N.A.	0.3
BL - Back-Low (0-30)	1271.9	N.A.	4.2
BM - Back-Medium (30-60)	7048.2	N.A.	23.1
BH - Back-High (60-80)	6823.7	N.A.	22.4
BVH - Back-Very High (80-90)	92.0	N.A.	0.3
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	30471.6	N.A.	100.0
BUG Rating	B5-U0-G3		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>5</u>	<u>15</u>	<u>25</u>	<u>35</u>	<u>45</u>	<u>55</u>	<u>65</u>	<u>75</u>	<u>85</u>
0.0	2214	2214	2214	2214	2214	2214	2214	2214	2214	2214
2.5	2219	2219	2223	2220	2224	2228	2223	2222	2218	2218
5.0	2254	2254	2251	2246	2251	2256	2250	2250	2245	2248
7.5	2299	2298	2301	2298	2299	2302	2302	2296	2290	2294
10.0	2371	2368	2373	2372	2378	2377	2385	2367	2361	2357
12.5	2467	2462	2472	2476	2491	2486	2488	2471	2456	2444
15.0	2576	2575	2590	2616	2624	2627	2623	2601	2572	2563
17.5	2710	2709	2734	2785	2798	2808	2789	2746	2710	2695
20.0	2850	2860	2903	2968	3007	3023	2986	2927	2869	2839
22.5	2995	3020	3089	3183	3250	3268	3220	3132	3051	3006
25.0	3168	3190	3282	3416	3529	3552	3488	3369	3250	3176
27.5	3373	3376	3498	3670	3825	3860	3787	3619	3456	3357
30.0	3569	3583	3732	3952	4146	4202	4097	3892	3691	3563
32.5	3781	3805	3973	4229	4475	4553	4430	4185	3944	3799
35.0	4018	4036	4218	4519	4792	4921	4777	4496	4207	4040
37.5	4278	4287	4483	4818	5149	5289	5136	4824	4487	4303
40.0	4537	4567	4786	5141	5490	5655	5489	5161	4808	4599
42.5	4826	4878	5115	5472	5874	6033	5853	5508	5134	4920
45.0	5175	5217	5451	5824	6243	6418	6233	5868	5487	5251
47.5	5552	5581	5822	6208	6636	6812	6624	6244	5854	5614
50.0	5910	5940	6209	6603	7068	7243	7022	6630	6256	6006
52.5	6327	6342	6612	7028	7509	7717	7464	7056	6714	6430
55.0	6800	6821	7080	7486	7989	8251	7988	7547	7230	6919
57.5	7282	7308	7614	8038	8624	8981	8650	8193	7763	7390
60.0	7858	7874	8199	8687	9466	10002	9475	8796	8232	7775
62.5	8332	8407	8760	9396	10482	11247	10309	9262	8519	7986
65.0	8484	8610	9179	10059	11489	12487	10999	9557	8749	8191
67.5	7494	7631	8534	10156	12471	13759	11920	10061	8887	8064
70.0	5278	5393	6368	8299	12088	14832	12246	9191	7131	6026
72.5	2569	2656	3399	5250	8937	12591	9697	6389	4335	3464
75.0	898	965	1273	2275	4912	8162	5697	3264	1822	1457
77.5	374	399	522	864	1804	3377	2333	1358	783	637
80.0	177	176	203	319	710	1231	965	551	333	311
82.5	121	119	129	171	251	382	328	270	209	216
85.0	77	76	80	106	144	177	170	159	123	125
87.5	37	37	39	46	58	69	64	59	46	40
90.0	0	0	0	0	0	0	0	0	0	0

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

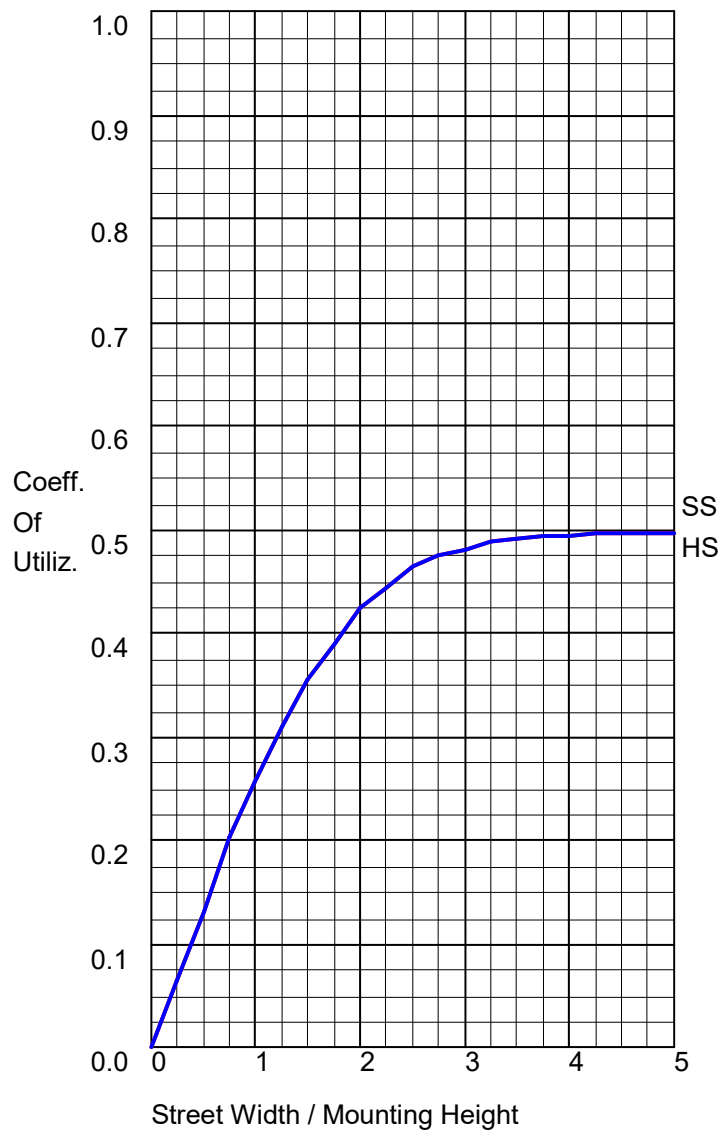
	<u>90</u>
0.0	2214
2.5	2210
5.0	2239
7.5	2289
10.0	2348
12.5	2437
15.0	2553
17.5	2690
20.0	2830
22.5	2988
25.0	3157
27.5	3339

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CANDELA TABULATION - (Cont.)

30.0	3548
32.5	3773
35.0	4011
37.5	4270
40.0	4563
42.5	4876
45.0	5237
47.5	5610
50.0	5970
52.5	6390
55.0	6891
57.5	7368
60.0	7735
62.5	7909
65.0	8124
67.5	7912
70.0	5888
72.5	3411
75.0	1443
77.5	633
80.0	317
82.5	218
85.0	123
87.5	35
90.0	0

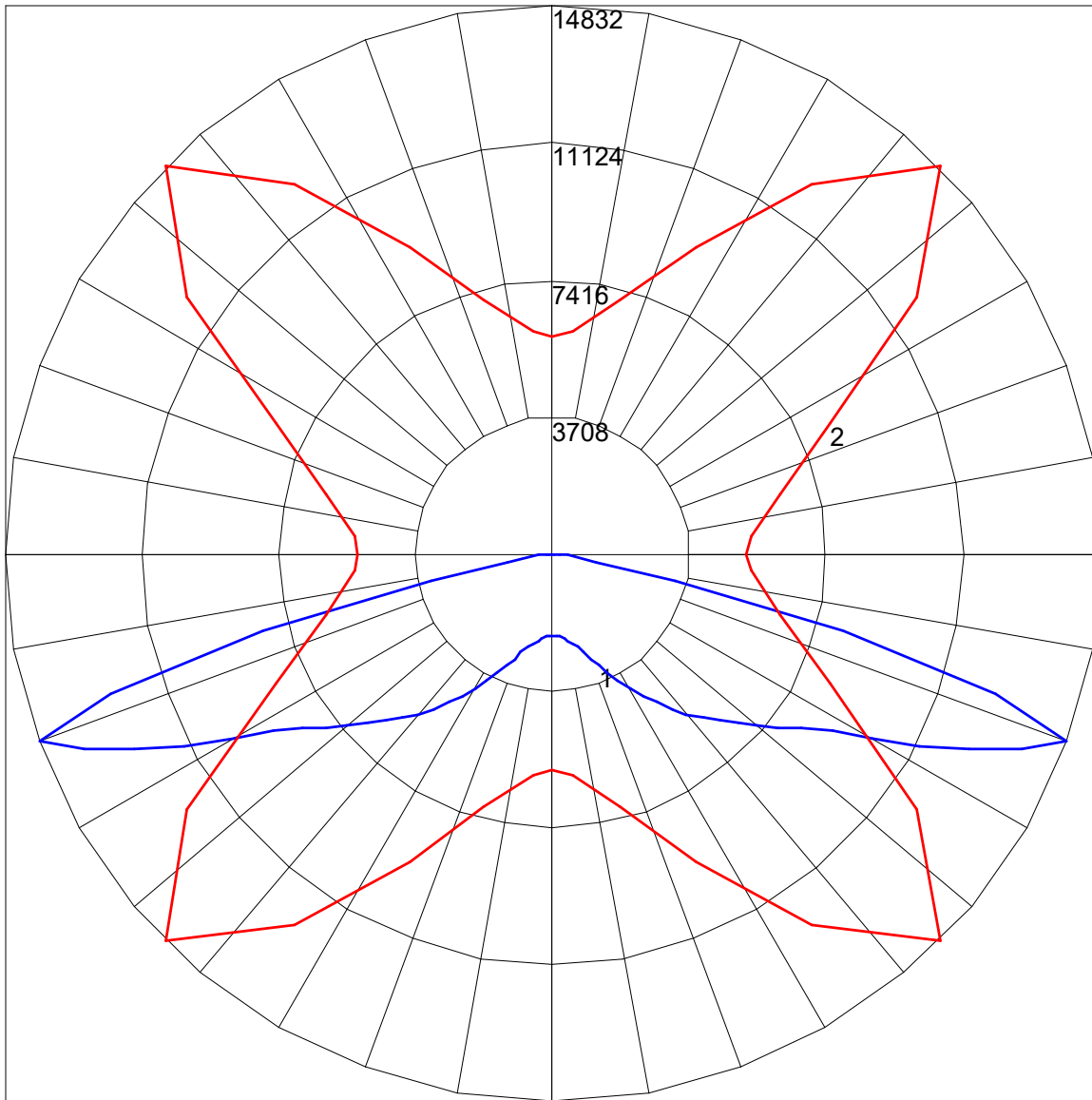
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

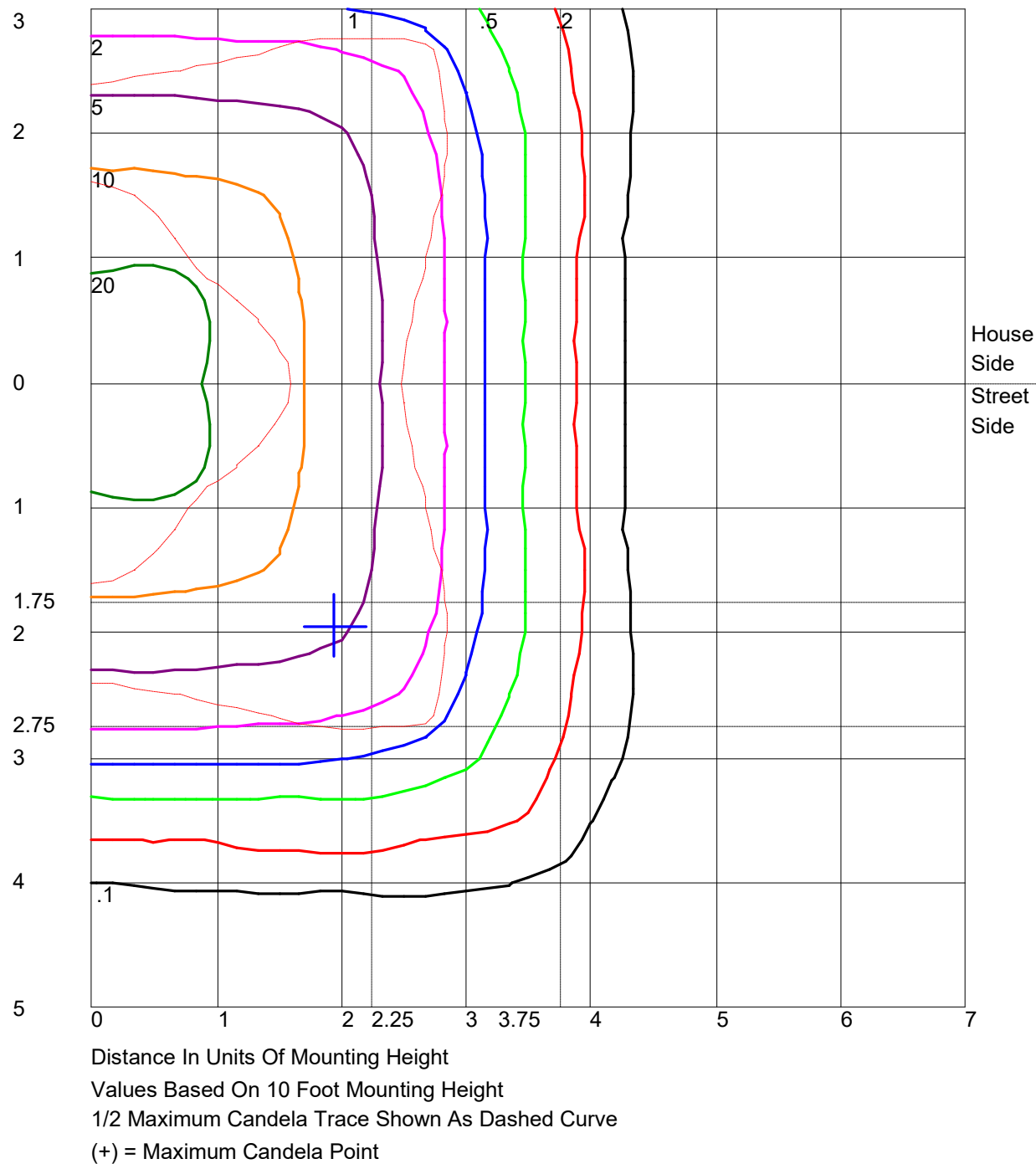
	Lumens	Percent Of Luminaire
Downward Street Side	15235.9	50.0
Downward House Side	15235.9	50.0
Downward Total	30471.8	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	30471.8	100.0

POLAR GRAPH

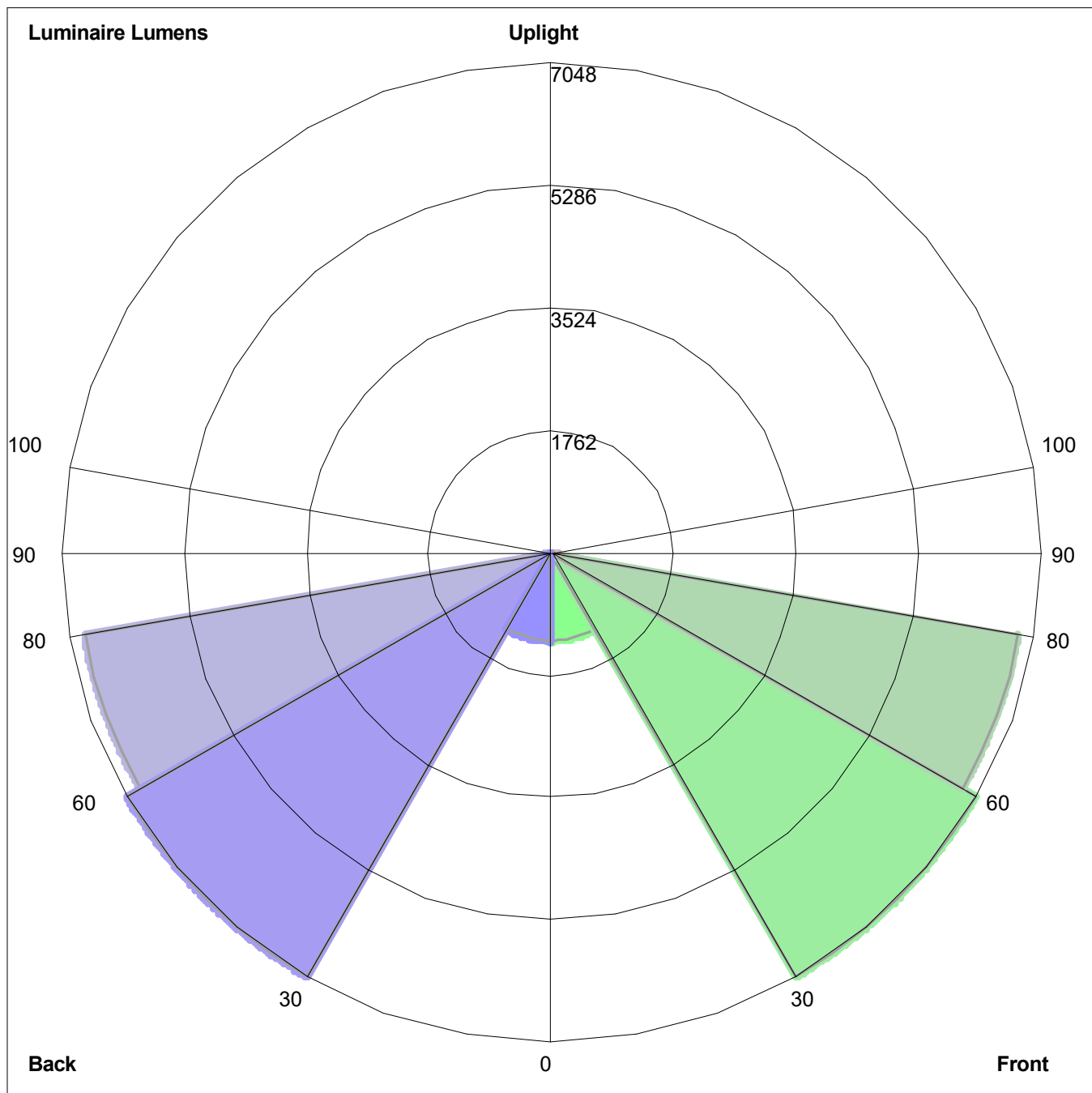


Maximum Candela = 14832 Located At Horizontal Angle = 45, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1271.9, Medium=7048.2, High=6823.7, Very High=92.0
Back: Low=1271.9, Medium=7048.2, High=6823.7, Very High=92.0
Uplight: Low=0.0, High=0.0

BUG Rating : B5-U0-G3