



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-SAX-FT-LED-25L-50-IL.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11788
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/10/2020
[TEST DATE] 04/30/20
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] ENM4-SAX-FT-LED-25L-50-IL
[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	22937
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	228
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	17847
Maximum Candela Angle	42.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	17847
Maximum Candela Angle (<90 Degrees Vertical)	42.5H 67.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	2268 (9.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2086.4	N.A.	9.1
FM - Front-Medium (30-60)	9479.8	N.A.	41.3
FH - Front-High (60-80)	8176.6	N.A.	35.6
FVH - Front-Very High (80-90)	256.4	N.A.	1.1
BL - Back-Low (0-30)	1068.2	N.A.	4.7
BM - Back-Medium (30-60)	1578.1	N.A.	6.9
BH - Back-High (60-80)	285.6	N.A.	1.2
BVH - Back-Very High (80-90)	5.7	N.A.	0.0
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	22936.8	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>42.5</u>	<u>45.0</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	4227	4227	4227	4227	4227	4227	4227	4227	4227	4227
2.5	4362	4321	4326	4324	4328	4277	4307	4302	4282	4285
5.0	4467	4426	4429	4437	4443	4381	4424	4410	4378	4360
7.5	4511	4462	4476	4491	4506	4450	4509	4502	4486	4452
10.0	4527	4486	4494	4517	4540	4518	4552	4593	4580	4559
12.5	4566	4516	4528	4548	4575	4575	4612	4668	4682	4664
15.0	4626	4599	4614	4635	4665	4644	4689	4743	4775	4774
17.5	4710	4710	4716	4749	4765	4743	4789	4832	4875	4895
20.0	4840	4831	4849	4873	4878	4863	4897	4936	4970	5013
22.5	4991	4973	4990	5001	5016	5002	5034	5059	5055	5106
25.0	5160	5148	5146	5162	5175	5179	5189	5200	5172	5217
27.5	5367	5344	5344	5369	5376	5378	5367	5357	5317	5335
30.0	5613	5593	5590	5608	5603	5611	5599	5529	5476	5439
32.5	5888	5882	5883	5890	5865	5880	5877	5757	5656	5547
35.0	6179	6191	6216	6212	6208	6225	6179	6061	5857	5690
37.5	6539	6537	6544	6549	6579	6613	6565	6428	6098	5866
40.0	6880	6883	6907	6931	6984	7059	7002	6830	6405	6083
42.5	7243	7255	7285	7376	7475	7590	7516	7335	6840	6390
45.0	7660	7679	7734	7919	8038	8178	8156	7979	7365	6753
47.5	8148	8144	8263	8514	8712	8918	8846	8764	7986	7184
50.0	8672	8680	8862	9200	9551	9787	9696	9639	8695	7666
52.5	9216	9224	9498	10030	10471	10812	10725	10634	9500	8226
55.0	9807	9844	10207	10858	11526	11976	11984	11721	10377	8824
57.5	10414	10552	10964	11781	12709	13320	13185	12912	11300	9280
60.0	11059	11272	11784	12771	13919	14611	14443	14083	12039	9535
62.5	11366	11584	12433	13853	15072	16017	15842	15043	12481	9338
65.0	10458	10717	12028	14374	16430	17450	17269	15500	12204	8572
67.5	8494	8763	10382	13320	16502	17847	17844	15279	11121	6958
70.0	4467	4728	6796	10741	14322	16191	16802	14025	8853	5021
72.5	1766	1884	2842	5682	10252	13035	13622	11129	6263	3005
75.0	1269	1322	1808	2918	5127	7651	8425	7646	3789	1933
77.5	997	1044	1487	2210	3149	3862	4056	4283	2469	1322
80.0	795	823	1234	1749	2101	2241	2268	1929	1508	895
82.5	570	611	923	1211	1069	910	882	689	720	542
85.0	246	276	365	416	383	353	344	262	275	308
87.5	88	93	126	157	133	105	93	73	78	98
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	4227	4227	4227	4227	4227	4227	4227	4227	4227	4227
2.5	4257	4258	4250	4217	4216	4193	4166	4160	4124	4112
5.0	4306	4297	4263	4208	4171	4112	4039	3999	3968	3930
7.5	4373	4359	4302	4209	4108	4014	3909	3803	3694	3607
10.0	4479	4440	4372	4229	4058	3888	3648	3374	3144	2977
12.5	4597	4536	4457	4252	3989	3628	3188	2774	2436	2199
15.0	4710	4641	4550	4265	3846	3215	2589	2084	1767	1620
17.5	4836	4758	4662	4263	3604	2746	2003	1637	1433	1319
20.0	4966	4892	4752	4243	3282	2229	1655	1377	1228	1149
22.5	5087	5001	4848	4164	2894	1864	1443	1221	1102	1043
25.0	5179	5098	4938	4000	2483	1643	1302	1120	1036	1003
27.5	5272	5191	5014	3794	2166	1505	1213	1059	1004	991

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CANDELA TABULATION - (Cont.)

30.0	5369	5280	5076	3555	1963	1409	1148	1017	972	978
32.5	5455	5353	5137	3270	1828	1343	1098	967	938	954
35.0	5532	5399	5176	3032	1736	1297	1045	910	890	894
37.5	5622	5453	5193	2871	1660	1243	975	836	813	779
40.0	5746	5545	5230	2775	1608	1178	892	738	693	637
42.5	5917	5664	5270	2740	1543	1083	783	626	548	485
45.0	6110	5784	5266	2737	1448	966	664	497	406	360
47.5	6377	5920	5271	2772	1296	806	522	375	297	261
50.0	6683	6127	5320	2827	1074	598	372	260	217	194
52.5	7006	6322	5360	2831	799	403	250	183	153	146
55.0	7260	6399	5318	2685	533	287	182	131	109	101
57.5	7409	6410	5226	2309	374	219	141	98	75	62
60.0	7343	6238	4835	1676	294	175	109	71	43	30
62.5	6895	5654	4040	1014	247	141	86	47	23	15
65.0	5927	4622	2878	567	204	111	64	33	14	5
67.5	4396	3249	1721	354	152	85	45	24	10	5
70.0	2839	1966	925	225	105	58	35	20	10	5
72.5	1548	1158	510	146	69	37	25	17	8	1
75.0	1066	759	301	98	42	24	21	9	3	0
77.5	715	498	218	60	24	19	13	5	1	0
80.0	403	282	149	34	15	12	8	3	0	0
82.5	265	186	90	14	9	8	6	2	0	0
85.0	165	102	31	7	6	7	5	2	0	0
87.5	62	22	4	2	3	4	3	2	0	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

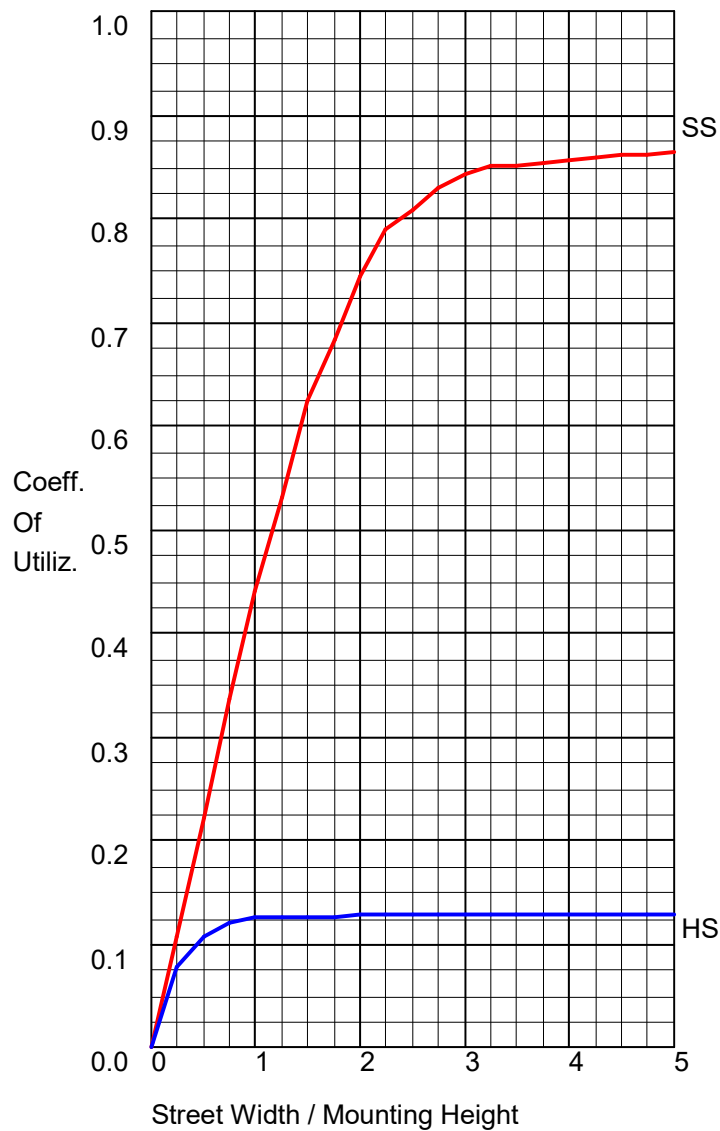
	<u>175.0</u>	<u>180.0</u>
0.0	4227	4227
2.5	4107	4084
5.0	3905	3879
7.5	3563	3526
10.0	2853	2860
12.5	2047	2047
15.0	1533	1533
17.5	1266	1263
20.0	1111	1106
22.5	1018	1014
25.0	991	995
27.5	981	985
30.0	972	973
32.5	944	943
35.0	855	841
37.5	719	710
40.0	565	564
42.5	434	425
45.0	315	309
47.5	243	239
50.0	189	188
52.5	143	143
55.0	100	100
57.5	58	58
60.0	28	27
62.5	13	12
65.0	3	3

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CANDELA TABULATION - (Cont.)

67.5	2	2
70.0	2	2
72.5	0	0
75.0	0	0
77.5	0	0
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0

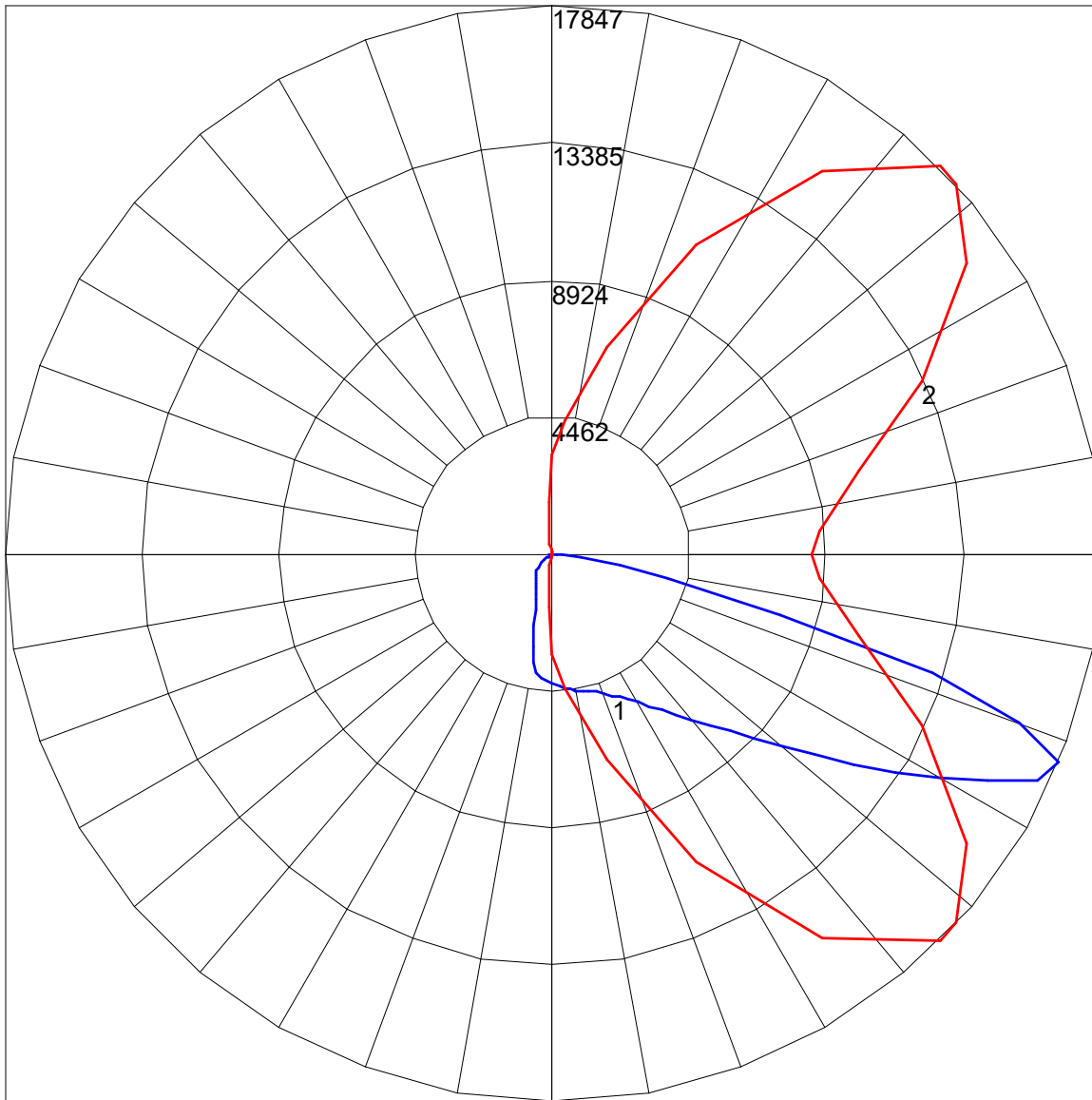
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

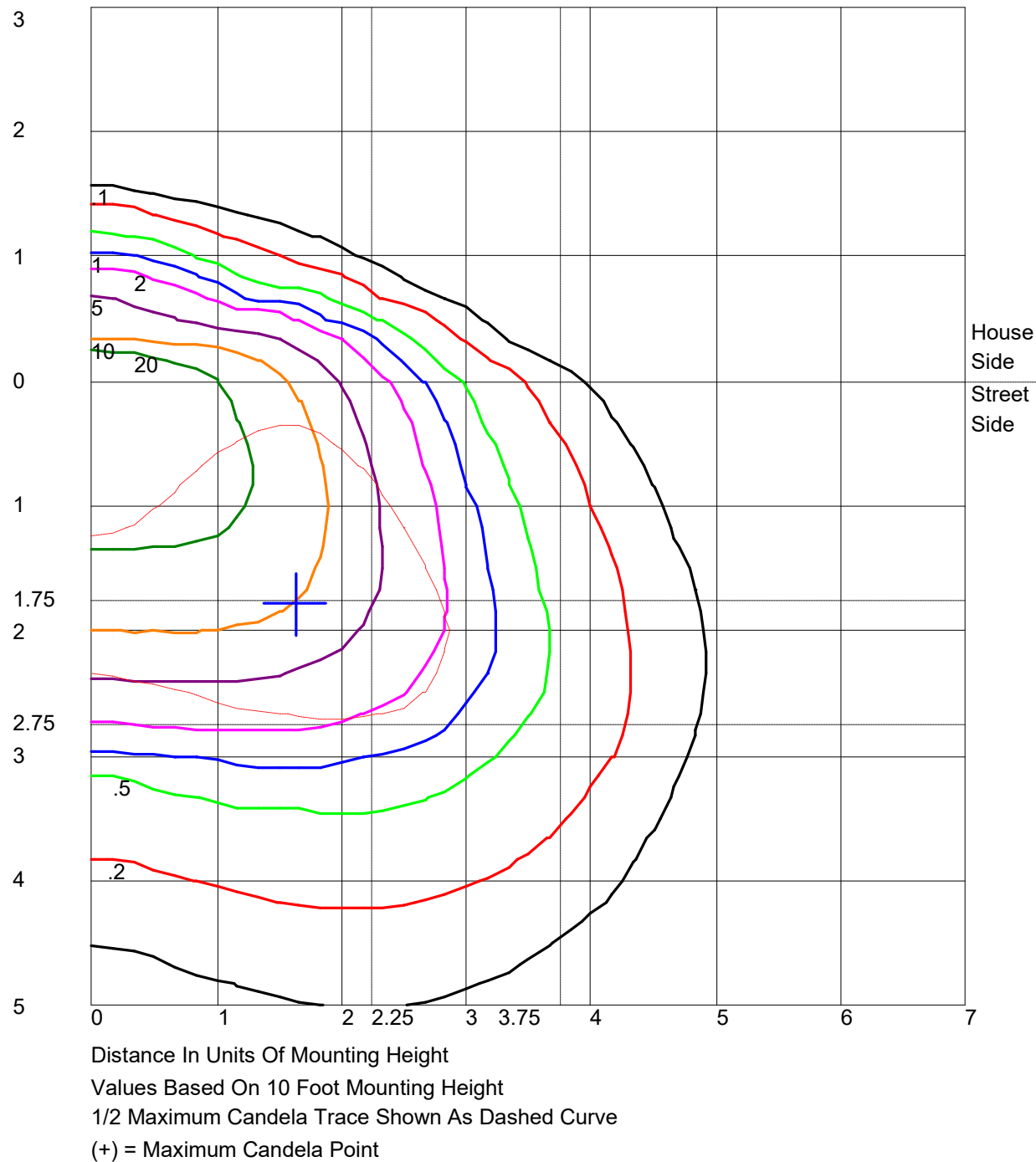
	Lumens	Percent Of Luminaire
Downward Street Side	19999.2	87.2
Downward House Side	2937.6	12.8
Downward Total	22936.8	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	22936.8	100.0

POLAR GRAPH

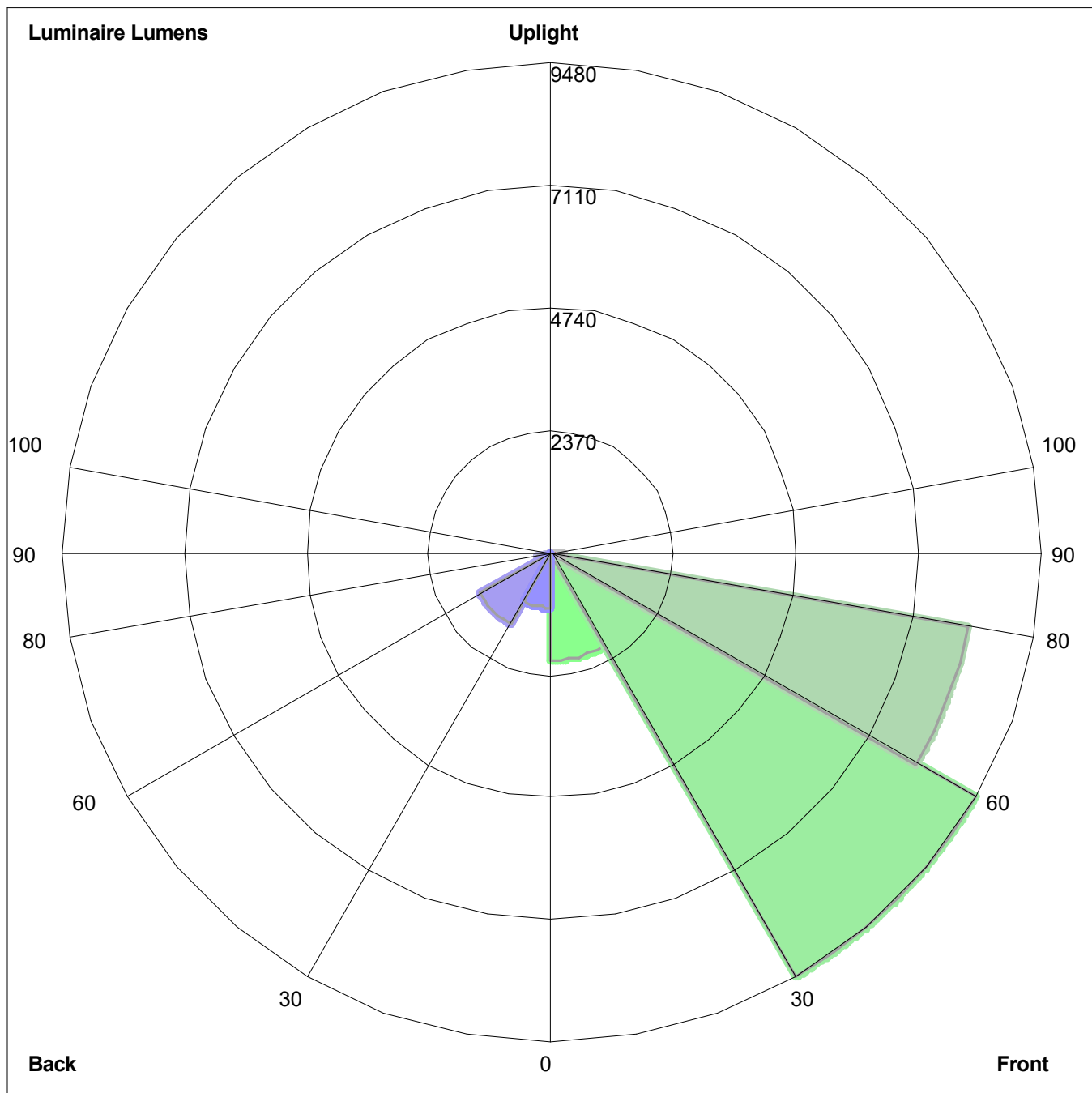


Maximum Candela = 17847 Located At Horizontal Angle = 42.5, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (42.5 - 222.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=2086.4, Medium=9479.8, High=8176.6, Very High=256.4
Back: Low=1068.2, Medium=1578.1, High=285.6, Very High=5.7
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G4