



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : ENM4-SAX-FT-LED-25L-40-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-40-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	21845
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	228
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	16997
Maximum Candela Angle	42.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	16997
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	2160 (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)	1987.0	N.A.	9.1
FM - Front-Medium (30-60)	9028.4	N.A.	41.3
FH - Front-High (60-80)	7787.3	N.A.	35.6
FVH - Front-Very High (80-90)	244.2	N.A.	1.1
BL - Back-Low (0-30)	1017.4	N.A.	4.7
BM - Back-Medium (30-60)	1503.0	N.A.	6.9
BH - Back-High (60-80)	272.0	N.A.	1.2
BVH - Back-Very High (80-90)	5.5	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	21844.8	N.A.	100.0
BUG Rating	B3-U0-G4		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u><b>0.0</b></u>	<u><b>5.0</b></u>	<u><b>15.0</b></u>	<u><b>25.0</b></u>	<u><b>35.0</b></u>	<u><b>42.5</b></u>	<u><b>45.0</b></u>	<u><b>55.0</b></u>	<u><b>65.0</b></u>	<u><b>75.0</b></u>
<b>0.0</b>	4026	4026	4026	4026	4026	4026	4026	4026	4026	4026
<b>2.5</b>	4154	4115	4120	4118	4122	4073	4102	4097	4078	4081
<b>5.0</b>	4254	4215	4218	4226	4231	4172	4213	4200	4170	4152
<b>7.5</b>	4296	4250	4263	4277	4291	4238	4294	4288	4272	4240
<b>10.0</b>	4311	4272	4280	4302	4324	4303	4335	4374	4362	4342
<b>12.5</b>	4349	4301	4312	4331	4357	4357	4392	4446	4459	4442
<b>15.0</b>	4406	4380	4394	4414	4443	4423	4466	4517	4548	4547
<b>17.5</b>	4486	4486	4491	4523	4538	4517	4561	4602	4643	4662
<b>20.0</b>	4610	4601	4618	4641	4646	4631	4664	4701	4733	4774
<b>22.5</b>	4753	4736	4752	4763	4777	4764	4794	4818	4814	4863
<b>25.0</b>	4914	4903	4901	4916	4929	4932	4942	4952	4926	4969
<b>27.5</b>	5111	5090	5090	5113	5120	5122	5111	5102	5064	5081
<b>30.0</b>	5346	5327	5324	5341	5336	5344	5332	5266	5215	5180
<b>32.5</b>	5608	5602	5603	5610	5586	5600	5597	5483	5387	5283
<b>35.0</b>	5885	5896	5920	5916	5912	5929	5885	5772	5578	5419
<b>37.5</b>	6228	6226	6232	6237	6266	6298	6252	6122	5808	5587
<b>40.0</b>	6552	6555	6578	6601	6651	6723	6669	6505	6100	5793
<b>42.5</b>	6898	6910	6938	7025	7119	7229	7158	6986	6514	6086
<b>45.0</b>	7295	7313	7366	7542	7655	7789	7768	7599	7014	6431
<b>47.5</b>	7760	7756	7870	8109	8297	8493	8425	8347	7606	6842
<b>50.0</b>	8259	8267	8440	8762	9096	9321	9234	9180	8281	7301
<b>52.5</b>	8777	8785	9046	9552	9972	10297	10214	10128	9048	7834
<b>55.0</b>	9340	9375	9721	10341	10977	11406	11413	11163	9883	8404
<b>57.5</b>	9918	10050	10442	11220	12104	12686	12557	12297	10762	8838
<b>60.0</b>	10532	10735	11223	12163	13256	13915	13755	13412	11466	9081
<b>62.5</b>	10825	11032	11841	13193	14354	15254	15088	14327	11887	8893
<b>65.0</b>	9960	10207	11455	13690	15648	16619	16447	14762	11623	8164
<b>67.5</b>	8090	8346	9888	12686	15716	16997	16994	14551	10591	6627
<b>70.0</b>	4254	4503	6472	10230	13640	15420	16002	13357	8431	4782
<b>72.5</b>	1682	1794	2707	5411	9764	12414	12973	10599	5965	2862
<b>75.0</b>	1209	1259	1722	2779	4883	7287	8024	7282	3609	1841
<b>77.5</b>	950	994	1416	2105	2999	3678	3863	4079	2351	1259
<b>80.0</b>	757	784	1175	1666	2001	2134	2160	1837	1436	852
<b>82.5</b>	543	582	879	1153	1018	867	840	656	686	516
<b>85.0</b>	234	263	348	396	365	336	328	250	262	293
<b>87.5</b>	84	89	120	150	127	100	89	70	74	93
<b>90.0</b>	0	0	0	0	0	0	0	0	0	0

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u><b>85.0</b></u>	<u><b>90.0</b></u>	<u><b>95.0</b></u>	<u><b>105.0</b></u>	<u><b>115.0</b></u>	<u><b>125.0</b></u>	<u><b>135.0</b></u>	<u><b>145.0</b></u>	<u><b>155.0</b></u>	<u><b>165.0</b></u>
<b>0.0</b>	4026	4026	4026	4026	4026	4026	4026	4026	4026	4026
<b>2.5</b>	4054	4055	4048	4016	4015	3993	3968	3962	3928	3916
<b>5.0</b>	4101	4092	4060	4008	3972	3916	3847	3809	3779	3743
<b>7.5</b>	4165	4151	4097	4009	3912	3823	3723	3622	3518	3435
<b>10.0</b>	4266	4229	4164	4028	3865	3703	3474	3213	2994	2835
<b>12.5</b>	4378	4320	4245	4050	3799	3455	3036	2642	2320	2094
<b>15.0</b>	4486	4420	4333	4062	3663	3062	2466	1985	1683	1543
<b>17.5</b>	4606	4531	4440	4060	3432	2615	1908	1559	1365	1256
<b>20.0</b>	4730	4659	4526	4041	3126	2123	1576	1311	1170	1094
<b>22.5</b>	4845	4763	4617	3966	2756	1775	1374	1163	1050	993
<b>25.0</b>	4932	4855	4703	3810	2365	1565	1240	1067	987	955
<b>27.5</b>	5021	4944	4775	3613	2063	1433	1155	1009	956	944

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**CANDELA TABULATION - (Cont.)**

30.0	5113	5029	4834	3386	1870	1342	1093	969	926	931
32.5	5195	5098	4892	3114	1741	1279	1046	921	893	909
35.0	5269	5142	4930	2888	1653	1235	995	867	848	851
37.5	5354	5193	4946	2734	1581	1184	929	796	774	742
40.0	5472	5281	4981	2643	1531	1122	850	703	660	607
42.5	5635	5394	5019	2610	1470	1031	746	596	522	462
45.0	5819	5509	5015	2607	1379	920	632	473	387	343
47.5	6073	5638	5020	2640	1234	768	497	357	283	249
50.0	6365	5835	5067	2692	1023	570	354	248	207	185
52.5	6672	6021	5105	2696	761	384	238	174	146	139
55.0	6914	6094	5065	2557	508	273	173	125	104	96
57.5	7056	6105	4977	2199	356	209	134	93	71	59
60.0	6993	5941	4605	1596	280	167	104	68	41	29
62.5	6567	5385	3848	966	235	134	82	45	22	14
65.0	5645	4402	2741	540	194	106	61	31	13	5
67.5	4187	3094	1639	337	145	81	43	23	10	5
70.0	2704	1872	881	214	100	55	33	19	10	5
72.5	1474	1103	486	139	66	35	24	16	8	1
75.0	1015	723	287	93	40	23	20	9	3	0
77.5	681	474	208	57	23	18	12	5	1	0
80.0	384	269	142	32	14	11	8	3	0	0
82.5	252	177	86	13	9	8	6	2	0	0
85.0	157	97	30	7	6	7	5	2	0	0
87.5	59	21	4	2	3	4	3	2	0	0
90.0	0	0	0	0	0	0	0	0	0	0

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

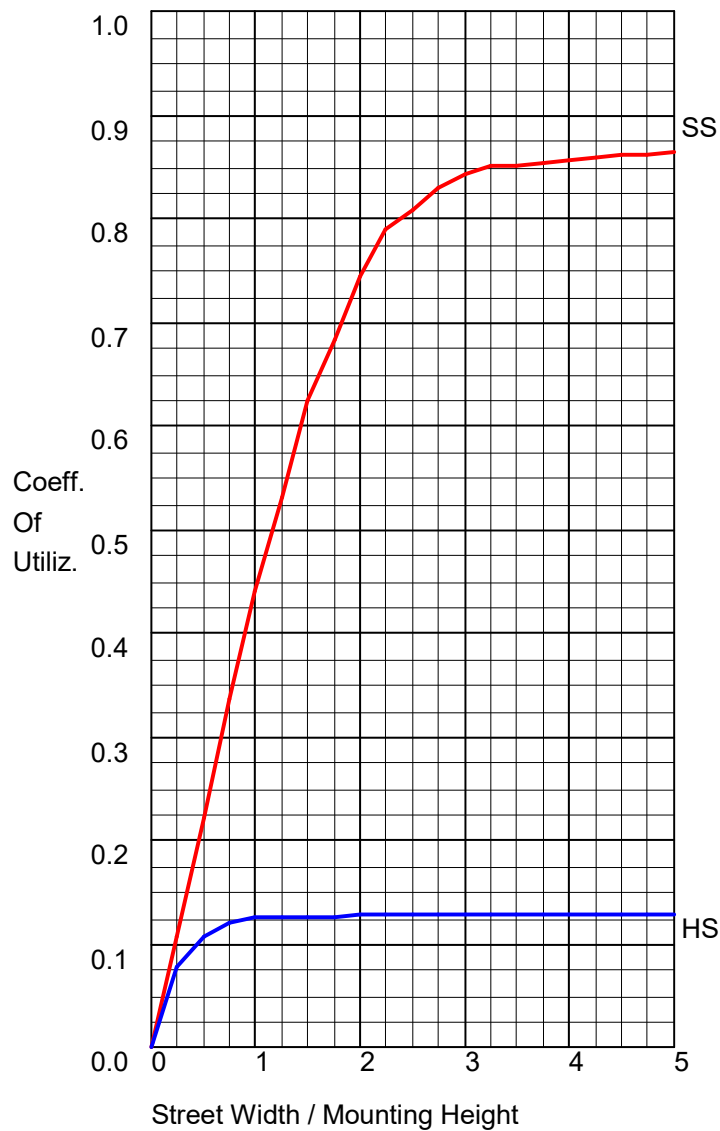
	<u>175.0</u>	<u>180.0</u>
0.0	4026	4026
2.5	3911	3890
5.0	3719	3694
7.5	3393	3358
10.0	2717	2724
12.5	1950	1950
15.0	1460	1460
17.5	1206	1203
20.0	1058	1053
22.5	970	966
25.0	944	948
27.5	934	938
30.0	926	927
32.5	899	898
35.0	814	801
37.5	685	676
40.0	538	537
42.5	413	405
45.0	300	294
47.5	231	228
50.0	180	179
52.5	136	136
55.0	95	95
57.5	55	55
60.0	27	26
62.5	12	11
65.0	3	3

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**CANDELA TABULATION - (Cont.)**

<b>67.5</b>	<b>2</b>	<b>2</b>
<b>70.0</b>	<b>2</b>	<b>2</b>
<b>72.5</b>	<b>0</b>	<b>0</b>
<b>75.0</b>	<b>0</b>	<b>0</b>
<b>77.5</b>	<b>0</b>	<b>0</b>
<b>80.0</b>	<b>0</b>	<b>0</b>
<b>82.5</b>	<b>0</b>	<b>0</b>
<b>85.0</b>	<b>0</b>	<b>0</b>
<b>87.5</b>	<b>0</b>	<b>0</b>
<b>90.0</b>	<b>0</b>	<b>0</b>

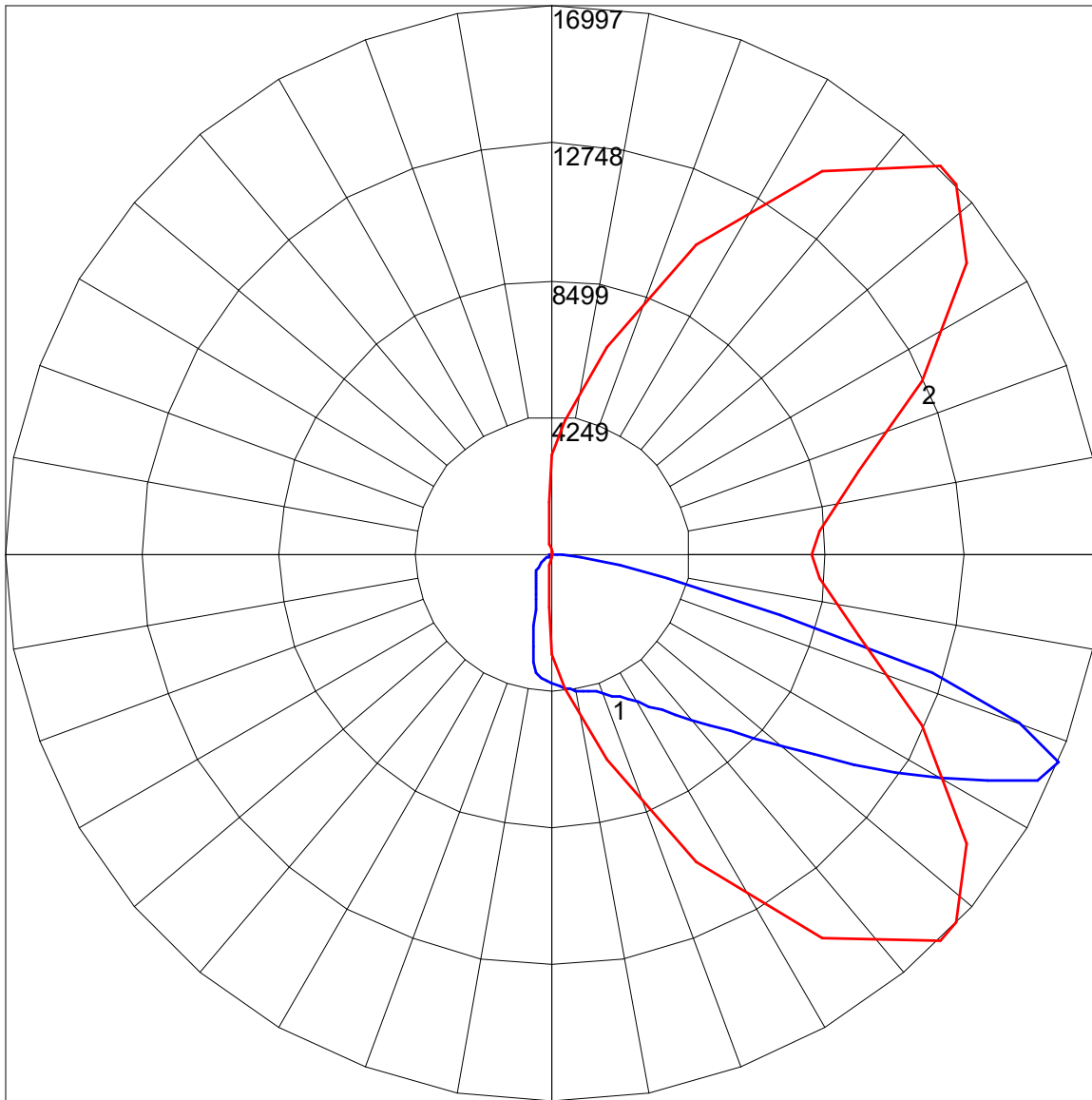
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

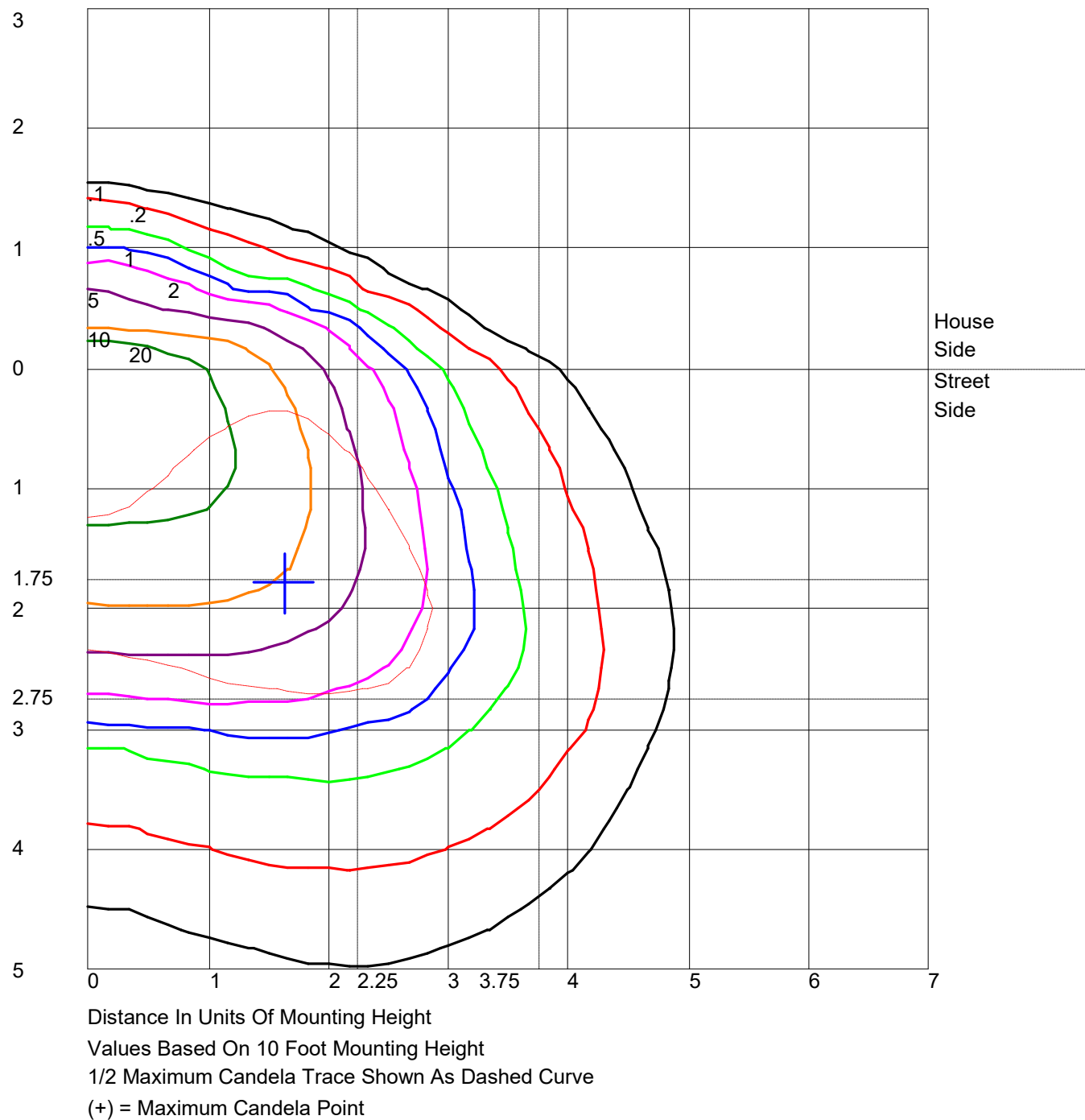
	Lumens	Percent Of Luminaire
Downward Street Side	19046.9	87.2
Downward House Side	2797.9	12.8
Downward Total	21844.8	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	21844.8	100.0

POLAR GRAPH



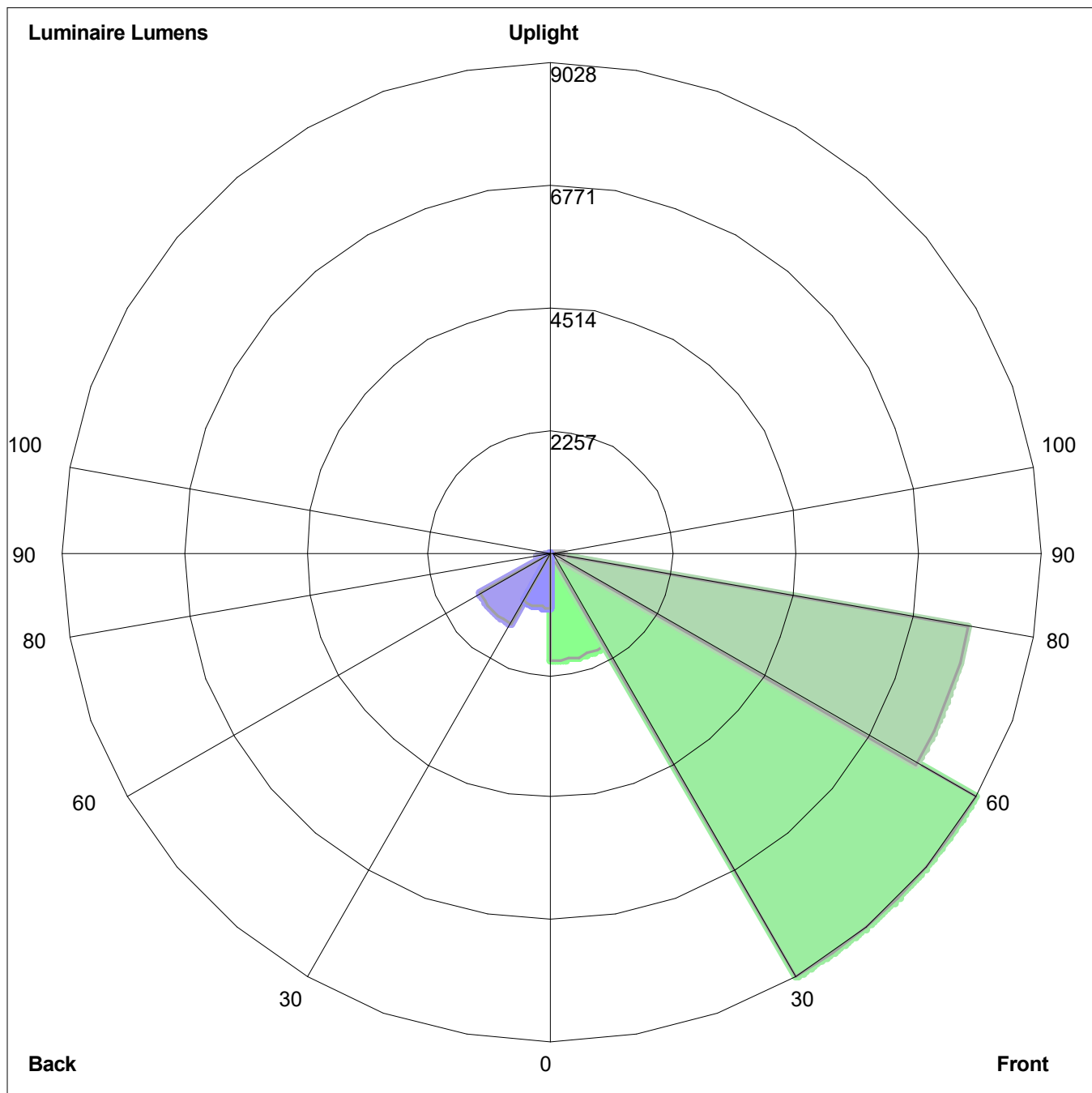
Maximum Candela = 16997 Located At Horizontal Angle = 42.5, Vertical Angle = 67.5  
# 1 - Vertical Plane Through Horizontal Angles (42.5 - 222.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low= 1987.0, Medium=9028.4, High=7787.3, Very High=244.2  
Back: Low=1017.4, Medium= 1503.0, High=272.0, Very High=5.5  
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G4