



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-SAX-2-LED-25L-50.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11791
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/10/2020
[TEST DATE] 05/01/20
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] ENM4-SAX-2-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 II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	29992
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	227.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	20847
Maximum Candela Angle	77.5H 65V
Maximum Candela (<90 Degrees Vertical)	20847
Maximum Candela Angle (<90 Degrees Vertical)	77.5H 65V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1745 (5.8% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2259.7	N.A.	7.5
FM - Front-Medium (30-60)	10825.6	N.A.	36.1
FH - Front-High (60-80)	5939.6	N.A.	19.8
FVH - Front-Very High (80-90)	145.6	N.A.	0.5
BL - Back-Low (0-30)	2031.1	N.A.	6.8
BM - Back-Medium (30-60)	6429.8	N.A.	21.4
BH - Back-High (60-80)	2196.5	N.A.	7.3
BVH - Back-Very High (80-90)	164.3	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	29992.2	N.A.	100.0
BUG Rating	B4-U0-G3		

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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>65.0</u>	<u>75.0</u>	<u>77.5</u>
0.0	4398	4398	4398	4398	4398	4398	4398	4398	4398	4398
2.5	4452	4451	4461	4453	4444	4445	4426	4419	4427	4388
5.0	4523	4519	4524	4531	4534	4541	4518	4498	4480	4456
7.5	4583	4582	4603	4594	4616	4629	4624	4585	4555	4553
10.0	4639	4659	4666	4688	4704	4712	4714	4702	4688	4665
12.5	4702	4710	4724	4763	4812	4827	4854	4867	4839	4824
15.0	4771	4777	4818	4867	4922	4971	4998	5017	5006	4980
17.5	4850	4869	4909	4972	5050	5120	5182	5197	5209	5200
20.0	4965	4982	5008	5095	5192	5292	5389	5455	5454	5421
22.5	5140	5150	5176	5276	5372	5491	5599	5703	5735	5729
25.0	5358	5384	5426	5481	5594	5725	5845	5990	6046	6049
27.5	5607	5627	5683	5783	5885	6008	6140	6325	6399	6368
30.0	5959	5961	6009	6135	6232	6347	6452	6662	6766	6723
32.5	6362	6338	6424	6524	6658	6738	6847	7017	7144	7133
35.0	6784	6770	6833	6985	7146	7229	7272	7418	7532	7544
37.5	7218	7229	7310	7475	7690	7824	7805	7896	7964	8026
40.0	7657	7665	7808	8009	8265	8483	8442	8424	8486	8543
42.5	8023	8062	8196	8489	8861	9148	9103	8990	9064	9114
45.0	8320	8393	8555	8921	9442	9843	9929	9730	9727	9806
47.5	8484	8550	8745	9219	9929	10596	10827	10588	10571	10573
50.0	8284	8329	8632	9207	10216	11280	11864	11699	11662	11663
52.5	7735	7754	8060	8829	10127	11766	12986	13016	13012	13028
55.0	6789	6730	7116	7918	9501	11940	14032	14464	14456	14468
57.5	5419	5468	5880	6571	8318	11475	14871	15962	16149	16226
60.0	4069	4102	4436	5074	6583	10321	15184	17549	18099	18164
62.5	2941	2965	3163	3604	4750	8235	14794	18761	19745	19821
65.0	2099	2116	2221	2496	3109	6078	13334	18807	20818	20847
67.5	1519	1525	1591	1765	2136	4087	10471	16929	20290	20095
70.0	1006	1015	1088	1239	1570	2631	7327	13357	16671	15796
72.5	622	644	658	832	1139	1925	4680	8806	10518	9279
75.0	365	387	351	469	765	1442	2912	5266	4911	4128
77.5	272	314	259	296	450	1021	1816	3120	2472	1997
80.0	255	288	232	219	298	719	995	1745	1383	1129
82.5	252	258	195	157	197	476	499	885	790	664
85.0	215	211	143	105	113	255	264	246	359	321
87.5	112	100	79	49	47	86	79	63	75	68
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	4398	4398	4398	4398	4398	4398	4398	4398	4398	4398
2.5	4428	4403	4397	4392	4383	4387	4373	4378	4382	4363
5.0	4471	4454	4441	4407	4398	4377	4366	4342	4339	4327
7.5	4558	4529	4511	4446	4405	4382	4341	4324	4309	4308
10.0	4658	4623	4595	4504	4465	4401	4333	4325	4298	4294
12.5	4801	4742	4700	4584	4514	4426	4373	4342	4309	4299
15.0	4949	4899	4837	4692	4578	4471	4402	4369	4348	4354
17.5	5178	5104	5020	4802	4645	4518	4426	4426	4431	4473
20.0	5397	5311	5229	4942	4719	4558	4472	4515	4571	4660
22.5	5689	5543	5458	5103	4821	4624	4552	4642	4772	4898
25.0	5967	5841	5689	5276	4916	4700	4671	4826	5019	5178
27.5	6314	6146	5934	5448	5023	4784	4837	5045	5286	5468

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CANDELA TABULATION - (Cont.)

30.0	6655	6451	6235	5629	5141	4882	5029	5283	5552	5764
32.5	7029	6823	6557	5815	5248	4991	5242	5531	5805	6036
35.0	7455	7239	6877	6009	5337	5147	5437	5742	6015	6241
37.5	7972	7627	7260	6200	5405	5308	5592	5881	6162	6324
40.0	8508	8153	7633	6386	5504	5431	5685	5925	6133	6219
42.5	9097	8736	8085	6571	5616	5529	5678	5843	5913	5882
45.0	9767	9289	8555	6718	5671	5545	5563	5593	5520	5403
47.5	10581	10019	9010	6801	5683	5434	5332	5207	4997	4825
50.0	11576	10759	9544	6813	5645	5230	4997	4754	4444	4246
52.5	12705	11711	10134	6765	5528	4942	4615	4301	3935	3736
55.0	14021	12796	10713	6673	5362	4622	4218	3880	3469	3253
57.5	15497	13838	11237	6498	5138	4263	3827	3482	3024	2860
60.0	17219	14682	11387	6154	4756	3858	3427	3083	2609	2461
62.5	18377	14950	10933	5519	4239	3365	2954	2629	2141	2000
65.0	18530	14197	9476	4595	3535	2789	2436	2140	1690	1526
67.5	16485	11722	7102	3442	2789	2183	1876	1672	1305	1232
70.0	11386	7563	4414	2407	2085	1620	1458	1274	1076	1027
72.5	5571	3816	2533	1667	1550	1237	1139	1027	875	775
75.0	2198	1779	1557	1169	1159	982	927	781	555	479
77.5	1128	1022	984	899	902	806	676	500	402	386
80.0	703	629	606	708	729	594	416	375	398	426
82.5	447	330	321	550	548	350	308	357	625	621
85.0	215	155	165	376	222	230	246	355	595	532
87.5	59	40	46	63	76	78	73	105	207	149
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles **Horizontal Angles**

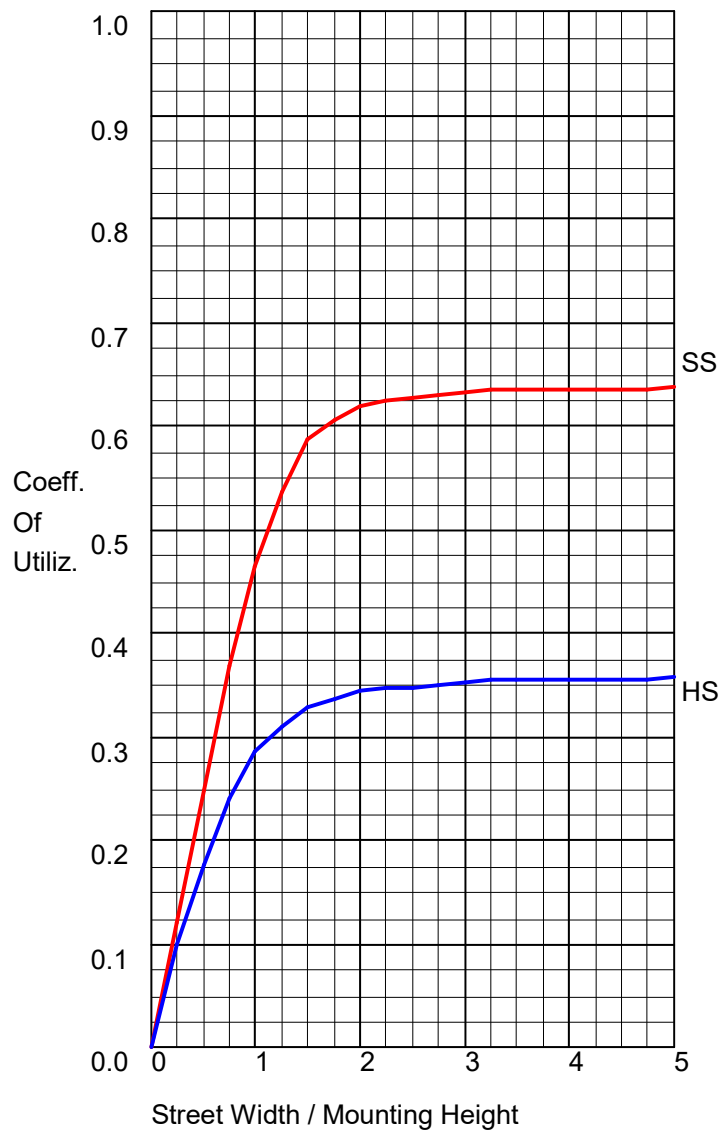
	<u>175.0</u>	<u>180.0</u>
0.0	4398	4398
2.5	4355	4369
5.0	4305	4309
7.5	4280	4261
10.0	4266	4252
12.5	4286	4278
15.0	4360	4348
17.5	4501	4486
20.0	4717	4695
22.5	4966	4987
25.0	5243	5298
27.5	5542	5601
30.0	5874	5892
32.5	6161	6156
35.0	6347	6361
37.5	6388	6403
40.0	6254	6249
42.5	5918	5903
45.0	5347	5358
47.5	4729	4741
50.0	4152	4171
52.5	3641	3599
55.0	3149	3116
57.5	2769	2715
60.0	2337	2297
62.5	1881	1852
65.0	1465	1448

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CANDELA TABULATION - (Cont.)

67.5	1226	1226
70.0	1055	1069
72.5	796	801
75.0	555	619
77.5	451	523
80.0	502	537
82.5	655	656
85.0	538	526
87.5	82	143
90.0	0	0

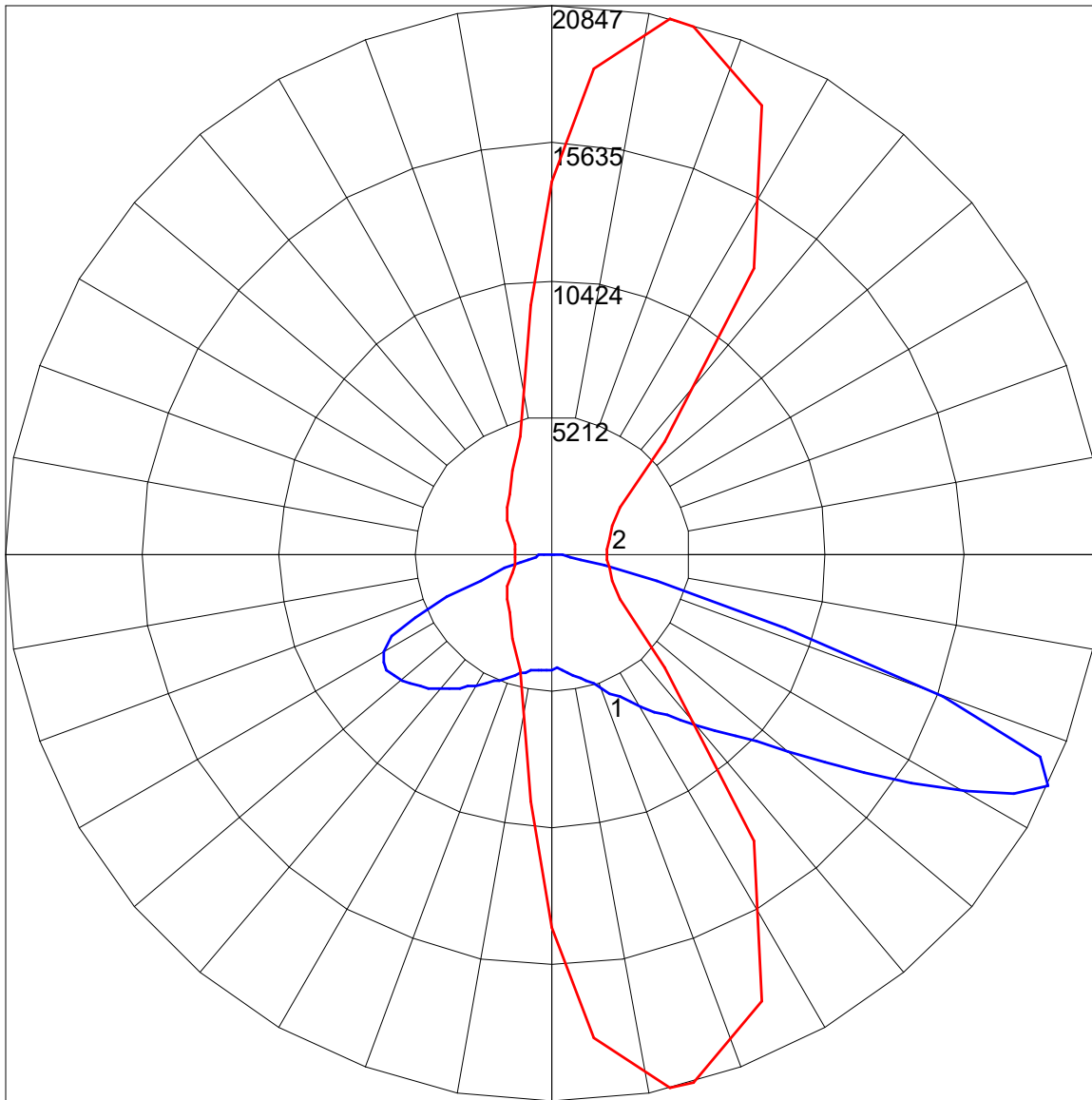
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

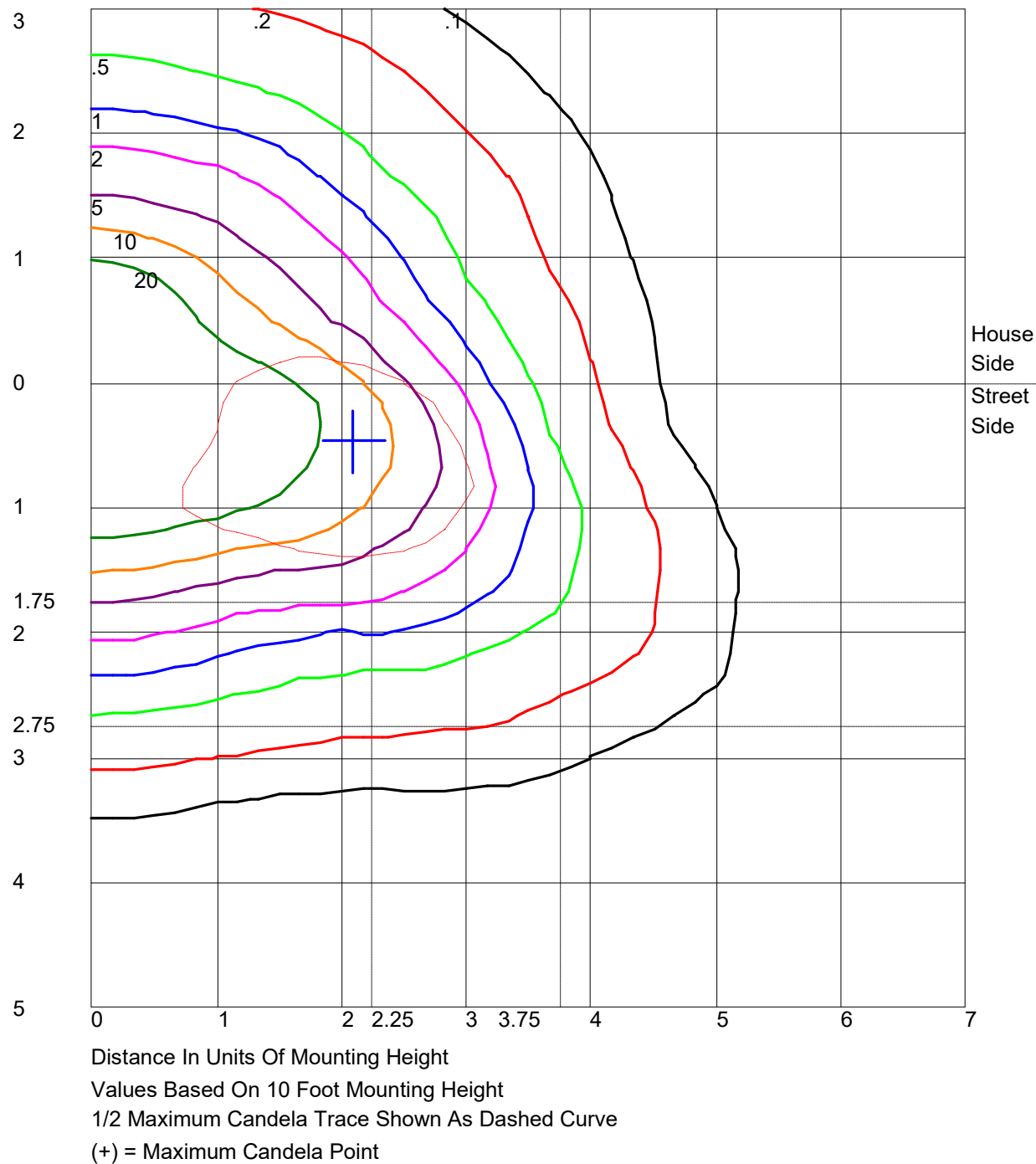
	Lumens	Percent Of Luminaire
Downward Street Side	19170.5	63.9
Downward House Side	10821.7	36.1
Downward Total	29992.2	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	29992.2	100.0

POLAR GRAPH

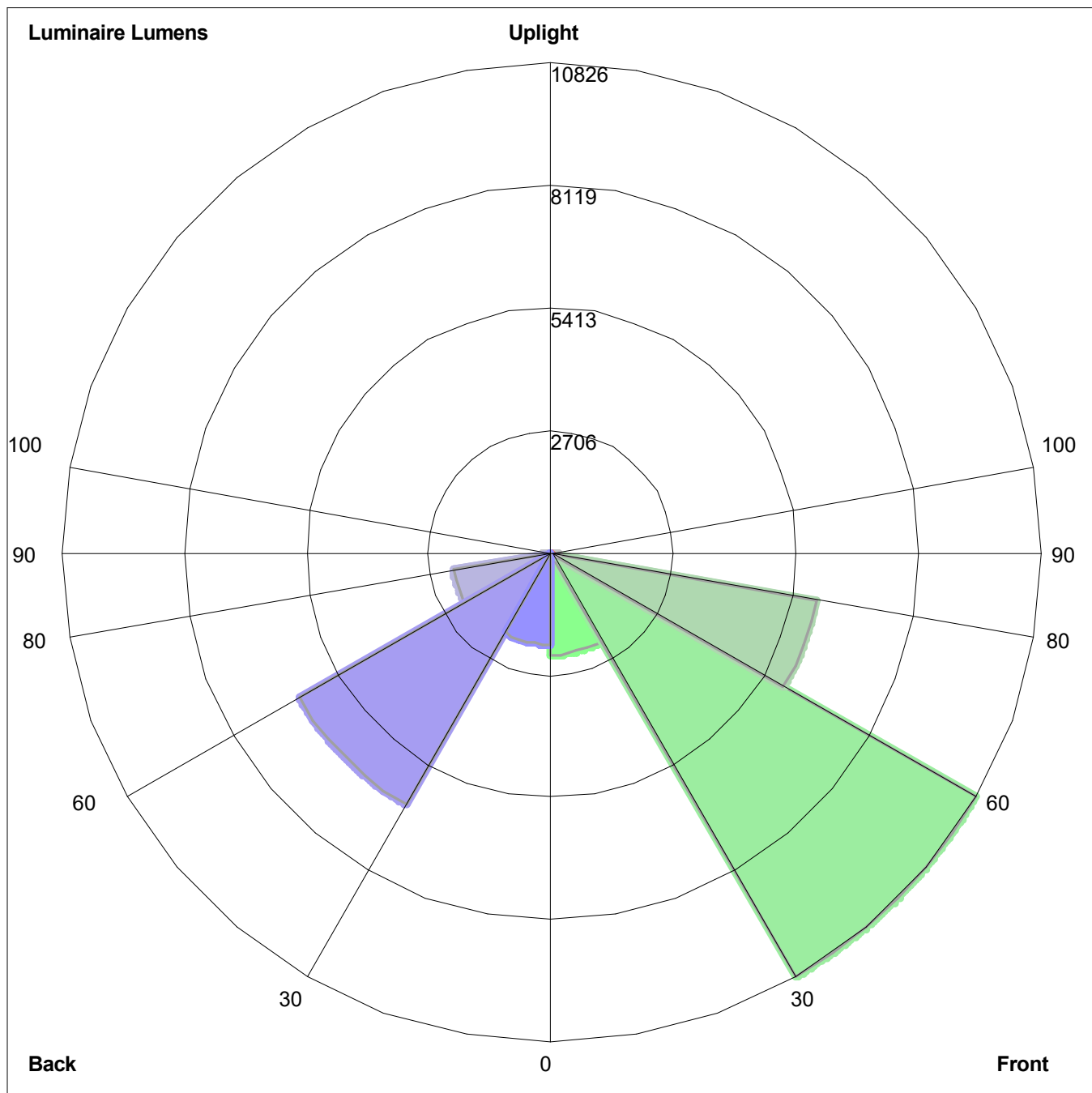


Maximum Candela = 20847 Located At Horizontal Angle = 77.5, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (77.5 - 257.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=2259.7, Medium=10825.6, High=5939.6, Very High=145.6
Back: Low=2031.1, Medium=6429.8, High=2196.5, Very High=164.3
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G3