



IES ROAD REPORT

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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11787

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 06/10/2020

[TEST DATE] 04/30/20

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] ENM4-SAX-FT-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 IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	30251
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	133
Total Luminaire Watts	228
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	18109
Maximum Candela Angle	42.5H 70V
Maximum Candela (<90 Degrees Vertical)	18109
Maximum Candela Angle (<90 Degrees Vertical)	42.5H 70V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	5053 (16.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2143.3	N.A.	7.1
FM - Front-Medium (30-60)	9417.6	N.A.	31.1
FH - Front-High (60-80)	10058.3	N.A.	33.2
FVH - Front-Very High (80-90)	541.2	N.A.	1.8
BL - Back-Low (0-30)	1875.4	N.A.	6.2
BM - Back-Medium (30-60)	4424.1	N.A.	14.6
BH - Back-High (60-80)	1662.4	N.A.	5.5
BVH - Back-Very High (80-90)	128.5	N.A.	0.4
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	30250.9	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	4497	4497	4497	4497	4497	4497	4497	4497	4497	4497
2.5	4574	4563	4569	4566	4558	4550	4570	4553	4540	4531
5.0	4634	4638	4639	4647	4653	4633	4655	4636	4618	4591
7.5	4657	4643	4651	4679	4707	4690	4716	4726	4707	4671
10.0	4662	4644	4669	4699	4727	4730	4754	4788	4805	4767
12.5	4699	4680	4717	4728	4755	4767	4794	4844	4873	4872
15.0	4755	4745	4786	4784	4822	4823	4847	4906	4939	4980
17.5	4840	4828	4854	4863	4902	4910	4914	4976	5018	5088
20.0	4959	4934	4941	4959	4981	5001	5004	5064	5111	5188
22.5	5061	5061	5060	5091	5088	5100	5108	5152	5199	5273
25.0	5244	5226	5217	5238	5245	5227	5236	5256	5281	5352
27.5	5463	5452	5435	5425	5446	5403	5418	5373	5395	5435
30.0	5691	5708	5686	5670	5648	5622	5614	5526	5502	5520
32.5	5998	5999	5965	5949	5903	5876	5855	5720	5653	5603
35.0	6305	6319	6282	6262	6229	6176	6167	5974	5817	5708
37.5	6603	6646	6646	6613	6585	6519	6510	6285	6027	5835
40.0	6979	6977	7017	7001	6989	6932	6925	6693	6302	6006
42.5	7352	7357	7436	7461	7471	7448	7422	7184	6693	6254
45.0	7811	7792	7892	7966	8084	8038	8039	7774	7154	6565
47.5	8329	8282	8419	8572	8742	8750	8745	8464	7717	6946
50.0	8816	8826	9029	9285	9542	9596	9581	9298	8356	7404
52.5	9359	9388	9663	10069	10446	10568	10601	10273	9118	7929
55.0	9937	9984	10304	10886	11469	11676	11754	11366	9982	8536
57.5	10534	10603	10970	11704	12557	12941	12954	12572	10916	9149
60.0	11083	11173	11686	12621	13596	14124	14107	13914	11904	9658
62.5	11635	11799	12440	13612	14641	15191	15204	14971	12709	9844
65.0	12243	12327	13194	14561	15953	16470	16508	15844	12974	9476
67.5	12178	12343	13610	15360	17343	17921	17827	16060	12445	8316
70.0	10487	10625	12323	15293	17846	18109	18094	15274	10585	6212
72.5	7549	7742	9466	12955	16294	16729	16350	12971	7711	3909
75.0	4273	4471	5982	9060	12773	13506	13281	9340	4728	2387
77.5	2220	2389	3288	5160	7957	9035	8911	5783	3006	1594
80.0	1136	1241	2055	3095	4272	5053	5043	3478	1873	1036
82.5	749	790	1368	2007	2316	2818	2782	1842	1100	603
85.0	550	605	1002	1356	1620	1321	1286	814	533	307
87.5	374	425	701	740	939	428	274	294	167	120
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	4497	4497	4497	4497	4497	4497	4497	4497	4497	4497
2.5	4524	4534	4536	4502	4486	4479	4468	4436	4443	4424
5.0	4564	4572	4557	4510	4470	4448	4386	4323	4299	4281
7.5	4636	4640	4600	4525	4460	4378	4312	4255	4227	4209
10.0	4743	4724	4681	4562	4433	4332	4283	4246	4222	4216
12.5	4853	4816	4765	4616	4436	4330	4285	4265	4244	4257
15.0	4963	4926	4857	4647	4447	4352	4296	4285	4288	4279
17.5	5092	5056	4979	4700	4465	4372	4319	4297	4315	4298
20.0	5216	5174	5083	4745	4493	4381	4343	4319	4323	4302
22.5	5307	5270	5170	4760	4497	4365	4350	4319	4320	4306
25.0	5384	5359	5286	4792	4483	4351	4331	4300	4309	4305
27.5	5462	5460	5363	4817	4462	4329	4302	4269	4288	4296

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CANDELA TABULATION - (Cont.)

30.0	5533	5536	5412	4824	4415	4288	4249	4230	4255	4271
32.5	5574	5562	5467	4784	4354	4234	4193	4175	4215	4246
35.0	5631	5583	5490	4748	4290	4179	4123	4100	4164	4201
37.5	5699	5637	5514	4723	4195	4099	4019	4014	4098	4158
40.0	5775	5697	5547	4666	4077	3995	3921	3907	4025	4162
42.5	5886	5757	5571	4594	3949	3856	3779	3801	3991	4044
45.0	6066	5838	5606	4559	3802	3705	3639	3681	3953	3742
47.5	6279	5981	5663	4496	3631	3546	3465	3556	3764	3424
50.0	6578	6131	5713	4409	3423	3367	3286	3438	3506	3155
52.5	6890	6295	5809	4343	3201	3168	3086	3279	3230	2917
55.0	7218	6490	5865	4263	2974	2948	2887	3080	2952	2648
57.5	7541	6632	5877	4111	2731	2722	2692	2859	2637	2370
60.0	7685	6613	5631	3889	2490	2502	2494	2580	2313	2145
62.5	7467	6243	4870	3544	2223	2249	2247	2338	2045	1933
65.0	6780	5416	3671	3044	1975	2012	1988	2128	1821	1760
67.5	5332	4019	2556	2370	1706	1761	1773	1907	1626	1625
70.0	3492	2591	1759	1756	1431	1515	1584	1669	1448	1511
72.5	2004	1543	1176	1273	1170	1275	1362	1435	1268	1320
75.0	1345	1003	755	920	911	1030	1153	1167	904	868
77.5	879	648	519	649	698	813	891	714	596	664
80.0	499	381	359	475	530	600	531	523	465	528
82.5	313	247	244	339	396	341	364	399	324	395
85.0	171	122	125	212	193	210	240	226	157	250
87.5	55	25	41	70	79	84	80	77	62	96
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

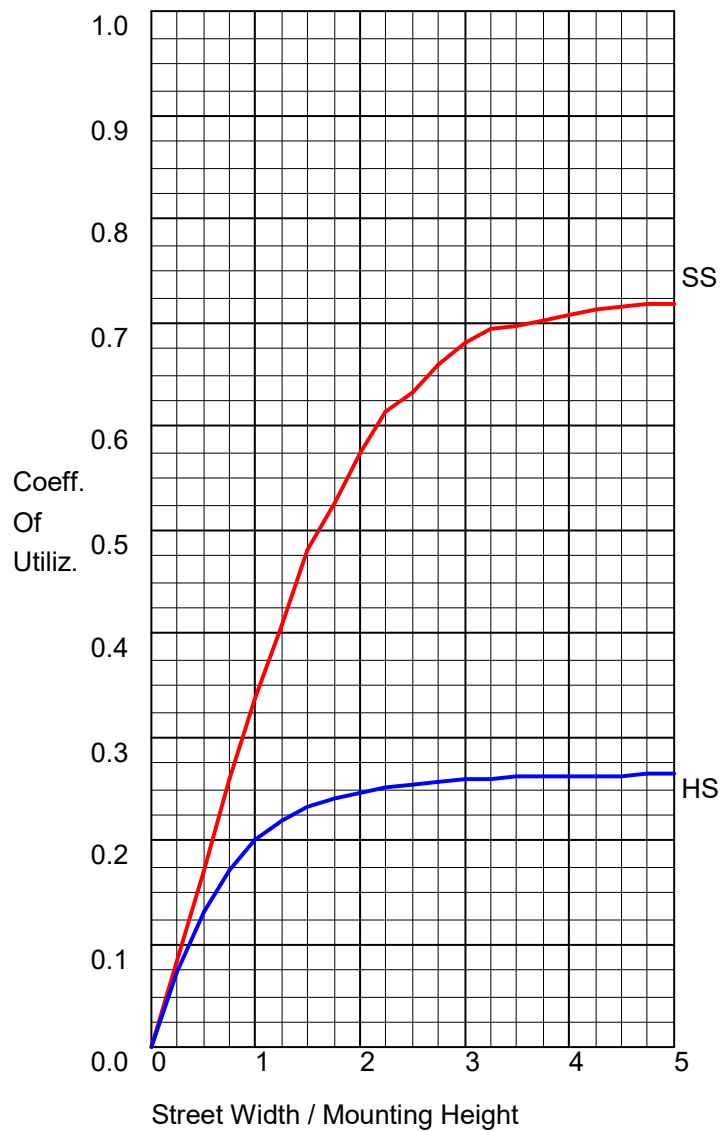
	<u>175.0</u>	<u>180.0</u>
0.0	4497	4497
2.5	4423	4398
5.0	4261	4254
7.5	4189	4212
10.0	4198	4208
12.5	4242	4230
15.0	4289	4267
17.5	4318	4292
20.0	4320	4308
22.5	4302	4321
25.0	4309	4323
27.5	4307	4305
30.0	4285	4277
32.5	4257	4245
35.0	4203	4199
37.5	4166	4188
40.0	4089	4084
42.5	3766	3733
45.0	3448	3441
47.5	3209	3201
50.0	2994	2978
52.5	2785	2761
55.0	2529	2514
57.5	2274	2259
60.0	2063	2024
62.5	1877	1867
65.0	1758	1751

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CANDELA TABULATION - (Cont.)

67.5	1674	1662
70.0	1595	1589
72.5	1405	1404
75.0	1002	1017
77.5	868	899
80.0	720	771
82.5	552	589
85.0	364	402
87.5	187	228
90.0	0	0

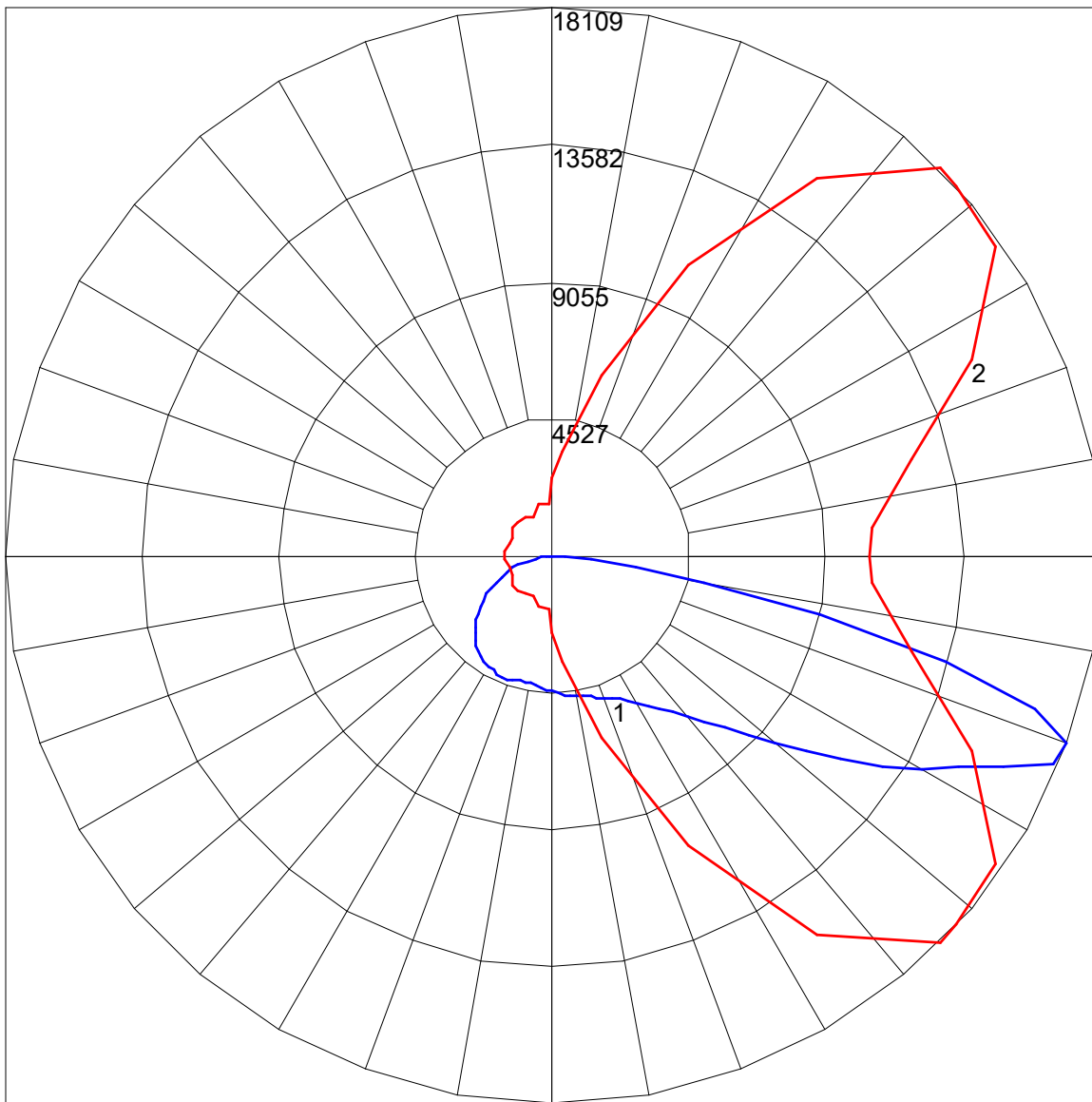
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

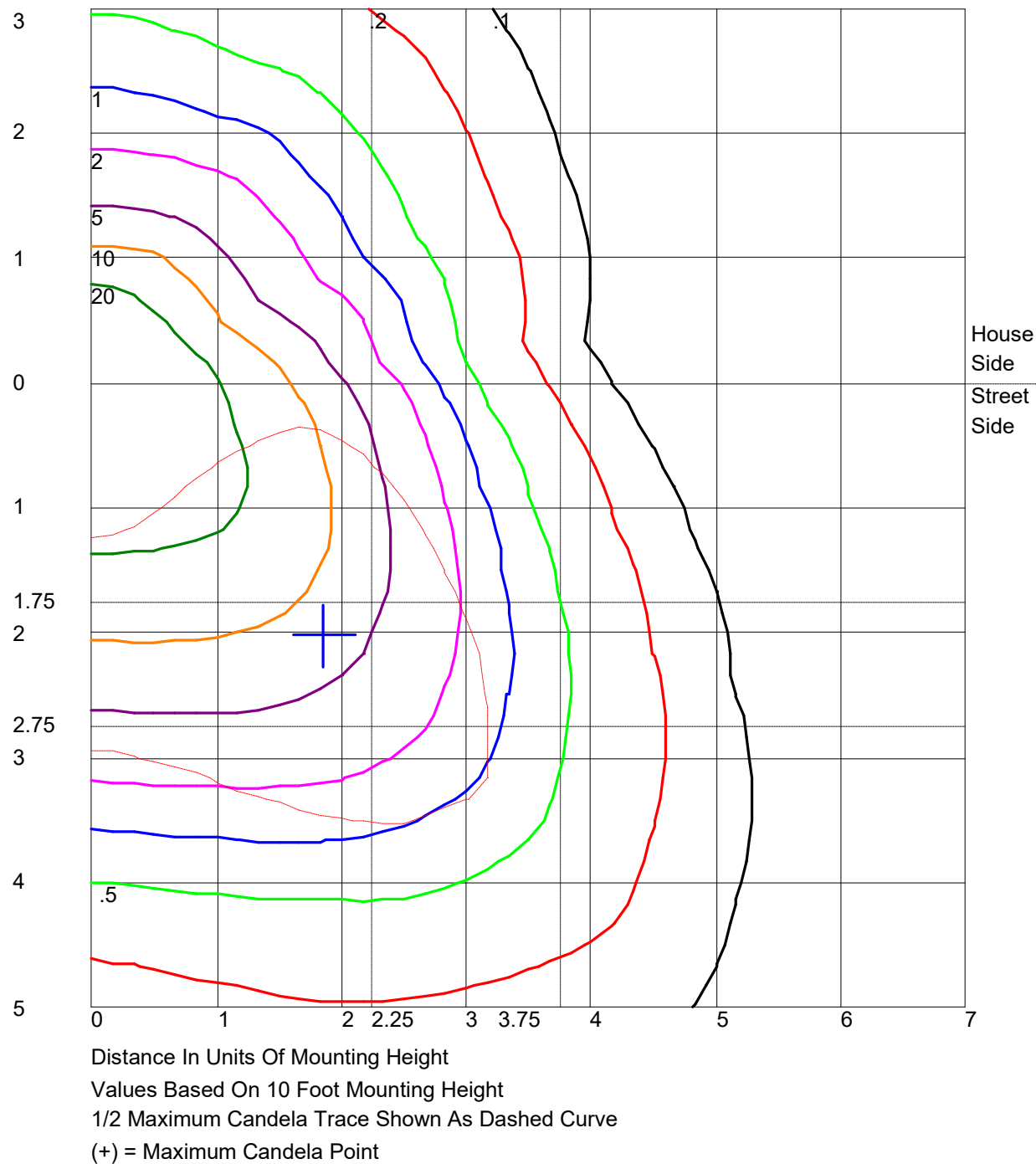
	Lumens	Percent Of Luminaire
Downward Street Side	22160.6	73.3
Downward House Side	8090.4	26.7
Downward Total	30250.9	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	30250.9	100.0

POLAR GRAPH

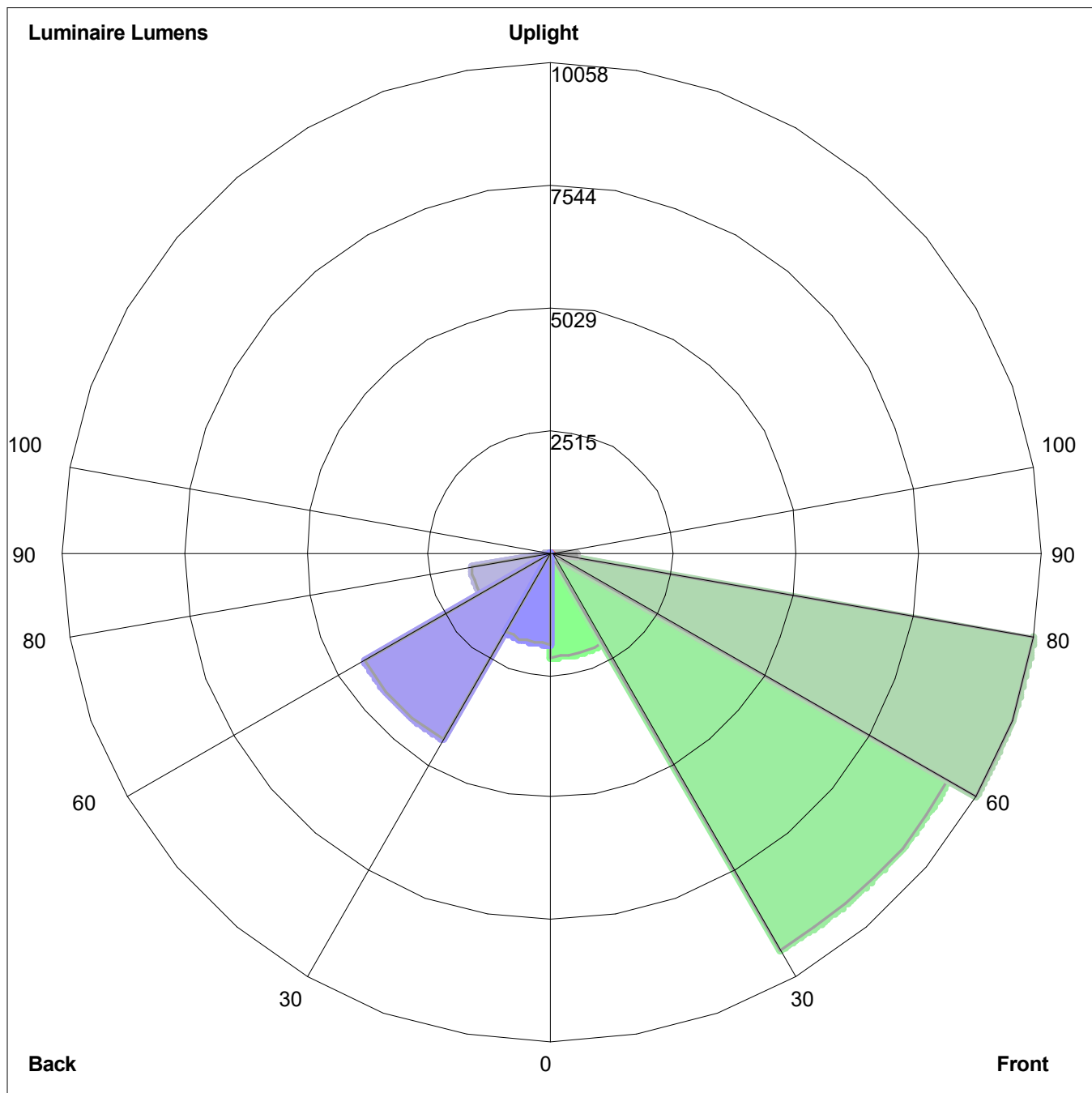


Maximum Candela = 18109 Located At Horizontal Angle = 42.5, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (42.5 - 222.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=2143.3, Medium=9417.6, High=10058.3, Very High=541.2
Back: Low=1875.4, Medium=4424.1, High=1662.4, Very High=128.5
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G4