



IES ROAD REPORT
PHOTOMETRIC FILENAME : ENM4-SAX-FT-LED-25L-40.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
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] ENM4-SAX-FT-LED-25L-40
[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	28811
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	126
Total Luminaire Watts	228
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	17247
Maximum Candela Angle	42.5H 70V
Maximum Candela (<90 Degrees Vertical)	17247
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	4812 (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)	2041.3	N.A.	7.1
FM - Front-Medium (30-60)	8969.2	N.A.	31.1
FH - Front-High (60-80)	9579.4	N.A.	33.2
FVH - Front-Very High (80-90)	515.5	N.A.	1.8
BL - Back-Low (0-30)	1786.1	N.A.	6.2
BM - Back-Medium (30-60)	4213.4	N.A.	14.6
BH - Back-High (60-80)	1583.3	N.A.	5.5
BVH - Back-Very High (80-90)	122.4	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	28810.6	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	4283	4283	4283	4283	4283	4283	4283	4283	4283	4283
2.5	4356	4346	4351	4349	4341	4333	4352	4336	4324	4315
5.0	4413	4417	4418	4426	4431	4412	4433	4415	4398	4372
7.5	4435	4422	4430	4456	4483	4467	4491	4501	4483	4449
10.0	4440	4423	4447	4475	4502	4505	4528	4560	4576	4540
12.5	4475	4457	4492	4503	4529	4540	4566	4613	4641	4640
15.0	4529	4519	4558	4556	4592	4593	4616	4672	4704	4743
17.5	4610	4598	4623	4631	4669	4676	4680	4739	4779	4846
20.0	4723	4699	4706	4723	4744	4763	4766	4823	4868	4941
22.5	4820	4820	4819	4849	4846	4857	4865	4907	4951	5022
25.0	4994	4977	4969	4989	4995	4978	4987	5006	5030	5097
27.5	5203	5192	5176	5167	5187	5146	5160	5117	5138	5176
30.0	5420	5436	5415	5400	5379	5354	5347	5263	5240	5257
32.5	5712	5713	5681	5666	5622	5596	5576	5448	5384	5336
35.0	6005	6018	5983	5964	5932	5882	5873	5690	5540	5436
37.5	6289	6330	6330	6298	6271	6209	6200	5986	5740	5557
40.0	6647	6645	6683	6668	6656	6602	6595	6374	6002	5720
42.5	7002	7007	7082	7106	7115	7093	7069	6842	6374	5956
45.0	7439	7421	7516	7587	7699	7655	7656	7404	6813	6252
47.5	7932	7888	8018	8164	8326	8333	8329	8061	7350	6615
50.0	8396	8406	8599	8843	9088	9139	9125	8855	7958	7051
52.5	8913	8941	9203	9590	9949	10065	10096	9784	8684	7551
55.0	9464	9509	9813	10368	10923	11120	11194	10825	9507	8130
57.5	10032	10098	10448	11147	11959	12325	12337	11973	10396	8713
60.0	10555	10641	11130	12020	12949	13451	13435	13251	11337	9198
62.5	11081	11237	11848	12964	13944	14468	14480	14258	12104	9375
65.0	11660	11740	12566	13868	15193	15686	15722	15090	12356	9025
67.5	11598	11755	12962	14629	16517	17068	16978	15295	11852	7920
70.0	9988	10119	11736	14565	16996	17247	17232	14547	10081	5916
72.5	7190	7373	9015	12338	15518	15932	15571	12353	7344	3723
75.0	4070	4258	5697	8629	12165	12863	12649	8895	4503	2273
77.5	2114	2275	3131	4914	7578	8605	8487	5508	2863	1518
80.0	1082	1182	1957	2948	4069	4812	4803	3312	1784	987
82.5	713	752	1303	1911	2206	2684	2650	1754	1048	574
85.0	524	576	954	1291	1543	1258	1225	775	508	292
87.5	356	405	668	705	894	408	261	280	159	114
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	4283	4283	4283	4283	4283	4283	4283	4283	4283	4283
2.5	4309	4318	4320	4288	4272	4266	4255	4225	4231	4213
5.0	4347	4354	4340	4295	4257	4236	4177	4117	4094	4077
7.5	4415	4419	4381	4310	4248	4170	4107	4052	4026	4009
10.0	4517	4499	4458	4345	4222	4126	4079	4044	4021	4015
12.5	4622	4587	4538	4396	4225	4124	4081	4062	4042	4054
15.0	4727	4691	4626	4426	4235	4145	4091	4081	4084	4075
17.5	4850	4815	4742	4476	4252	4164	4113	4092	4110	4093
20.0	4968	4928	4841	4519	4279	4172	4136	4113	4117	4097
22.5	5054	5019	4924	4533	4283	4157	4143	4113	4114	4101
25.0	5128	5104	5034	4564	4270	4144	4125	4095	4104	4100
27.5	5202	5200	5108	4588	4250	4123	4097	4066	4084	4091

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CANDELA TABULATION - (Cont.)

30.0	5270	5272	5154	4594	4205	4084	4047	4029	4052	4068
32.5	5309	5297	5207	4556	4147	4032	3993	3976	4014	4044
35.0	5363	5317	5229	4522	4086	3980	3927	3905	3966	4001
37.5	5428	5369	5251	4498	3995	3904	3828	3823	3903	3960
40.0	5500	5426	5283	4444	3883	3805	3734	3721	3833	3964
42.5	5606	5483	5306	4375	3761	3672	3599	3620	3801	3851
45.0	5777	5560	5339	4342	3621	3529	3466	3506	3765	3564
47.5	5980	5696	5393	4282	3458	3377	3300	3387	3585	3261
50.0	6265	5839	5441	4199	3260	3207	3130	3274	3339	3005
52.5	6562	5995	5532	4136	3049	3017	2939	3123	3076	2778
55.0	6874	6181	5586	4060	2832	2808	2750	2933	2811	2522
57.5	7182	6316	5597	3915	2601	2592	2564	2723	2511	2257
60.0	7319	6298	5363	3704	2371	2383	2375	2457	2203	2043
62.5	7111	5946	4638	3375	2117	2142	2140	2227	1948	1841
65.0	6457	5158	3496	2899	1881	1916	1893	2027	1734	1676
67.5	5078	3828	2434	2257	1625	1677	1689	1816	1549	1548
70.0	3326	2468	1675	1672	1363	1443	1509	1590	1379	1439
72.5	1909	1470	1120	1212	1114	1214	1297	1367	1208	1257
75.0	1281	955	719	876	868	981	1098	1111	861	827
77.5	837	617	494	618	665	774	849	680	568	632
80.0	475	363	342	452	505	571	506	498	443	503
82.5	298	235	232	323	377	325	347	380	309	376
85.0	163	116	119	202	184	200	229	215	150	238
87.5	52	24	39	67	75	80	76	73	59	91
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles **Horizontal Angles**

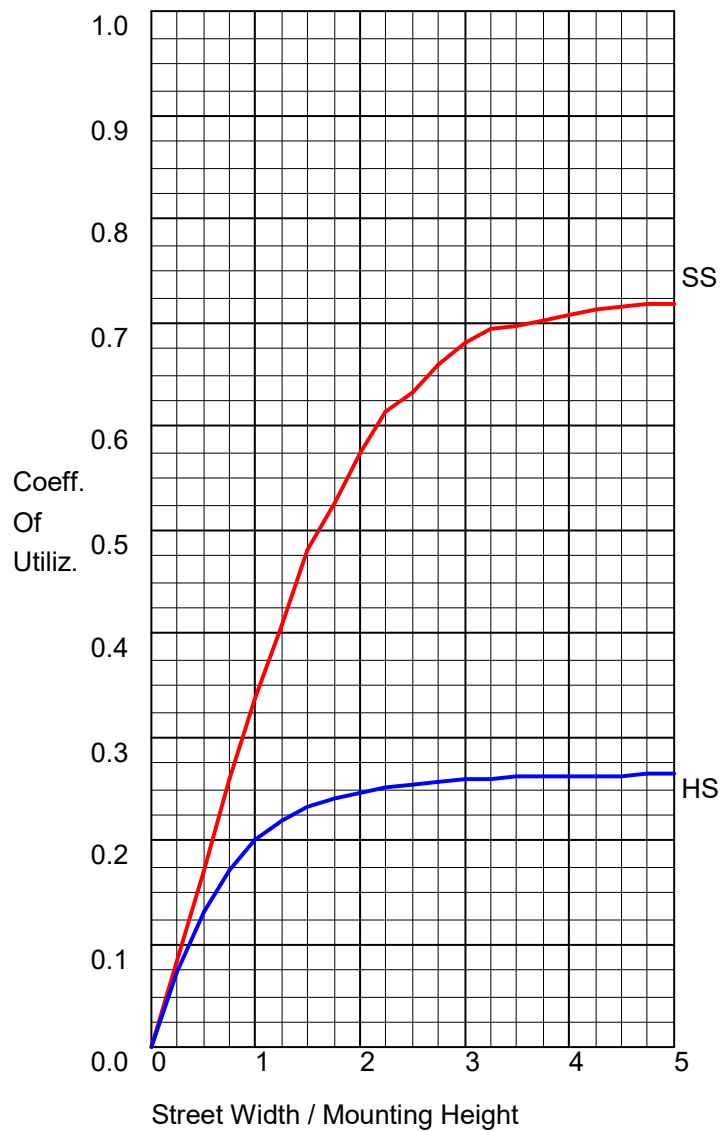
	<u>175.0</u>	<u>180.0</u>
0.0	4283	4283
2.5	4212	4189
5.0	4058	4051
7.5	3990	4011
10.0	3998	4008
12.5	4040	4029
15.0	4085	4064
17.5	4112	4088
20.0	4114	4103
22.5	4097	4115
25.0	4104	4117
27.5	4102	4100
30.0	4081	4073
32.5	4054	4043
35.0	4003	3999
37.5	3968	3989
40.0	3894	3890
42.5	3587	3555
45.0	3284	3277
47.5	3056	3049
50.0	2851	2836
52.5	2652	2630
55.0	2409	2394
57.5	2166	2151
60.0	1965	1928
62.5	1788	1778
65.0	1674	1668

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CANDELA TABULATION - (Cont.)

67.5	1594	1583
70.0	1519	1513
72.5	1338	1337
75.0	954	969
77.5	827	856
80.0	686	734
82.5	526	561
85.0	347	383
87.5	178	217
90.0	0	0

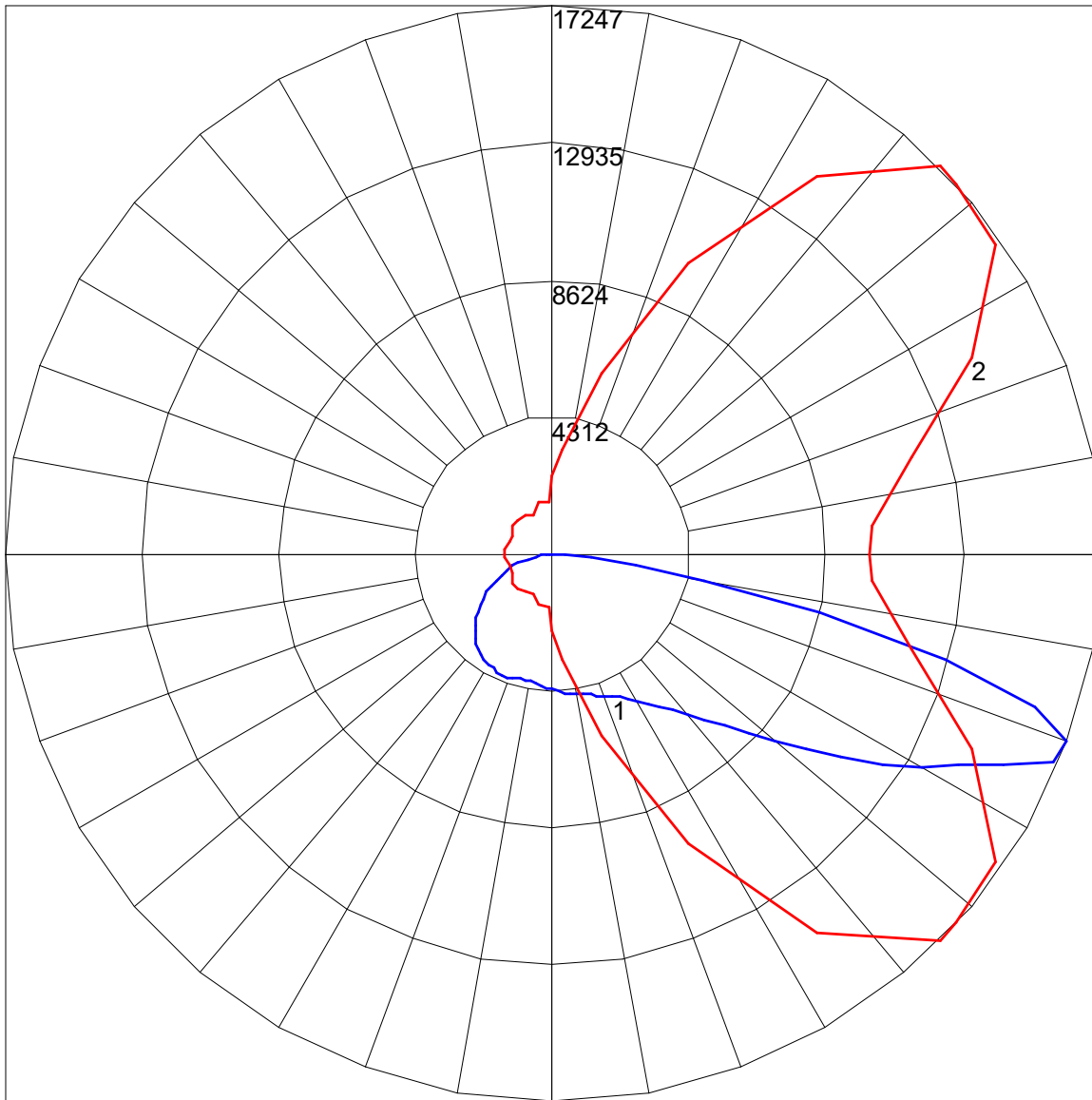
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

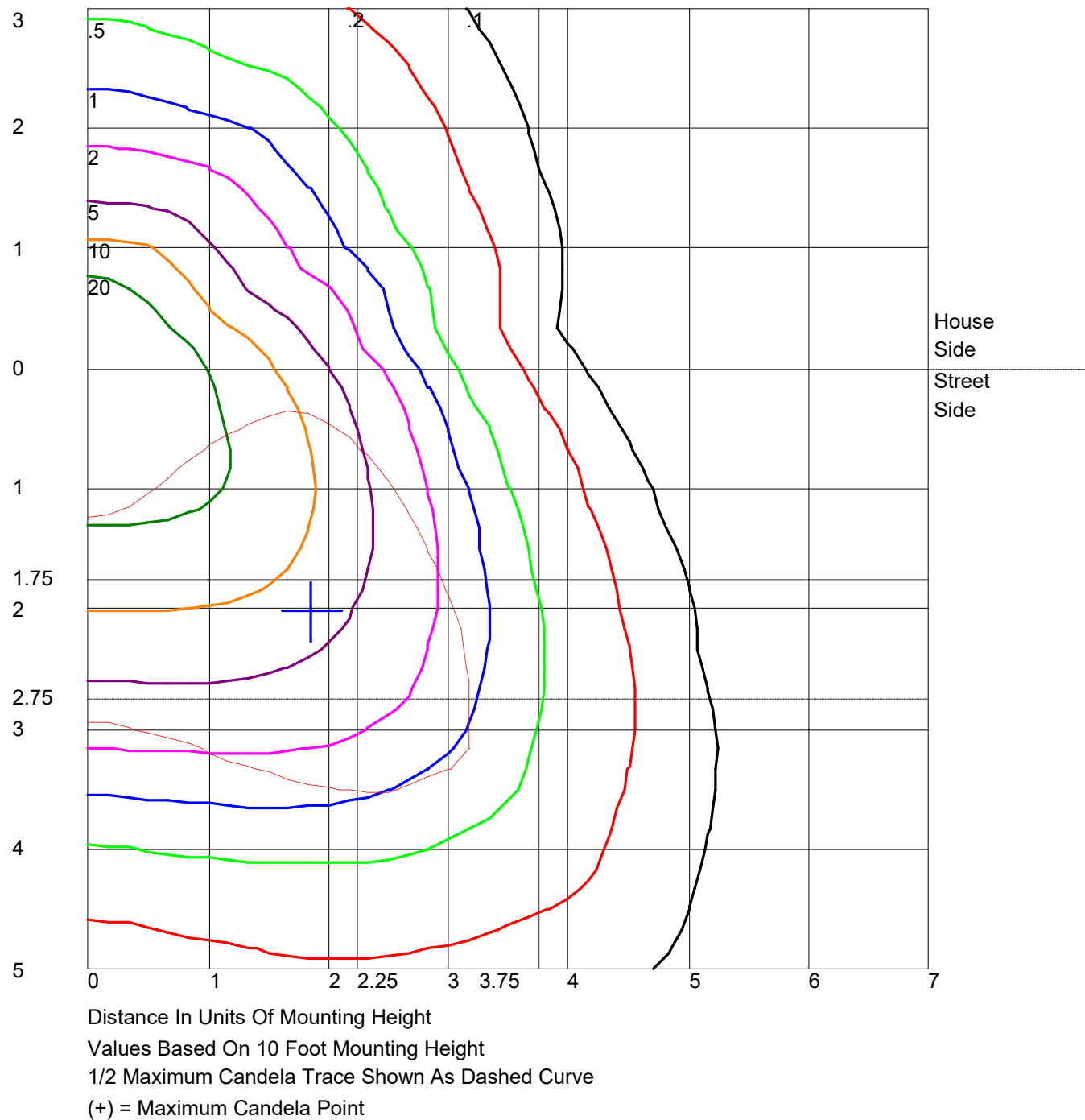
	Lumens	Percent Of Luminaire
Downward Street Side	21105.4	73.3
Downward House Side	7705.2	26.7
Downward Total	28810.6	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	28810.6	100.0

POLAR GRAPH

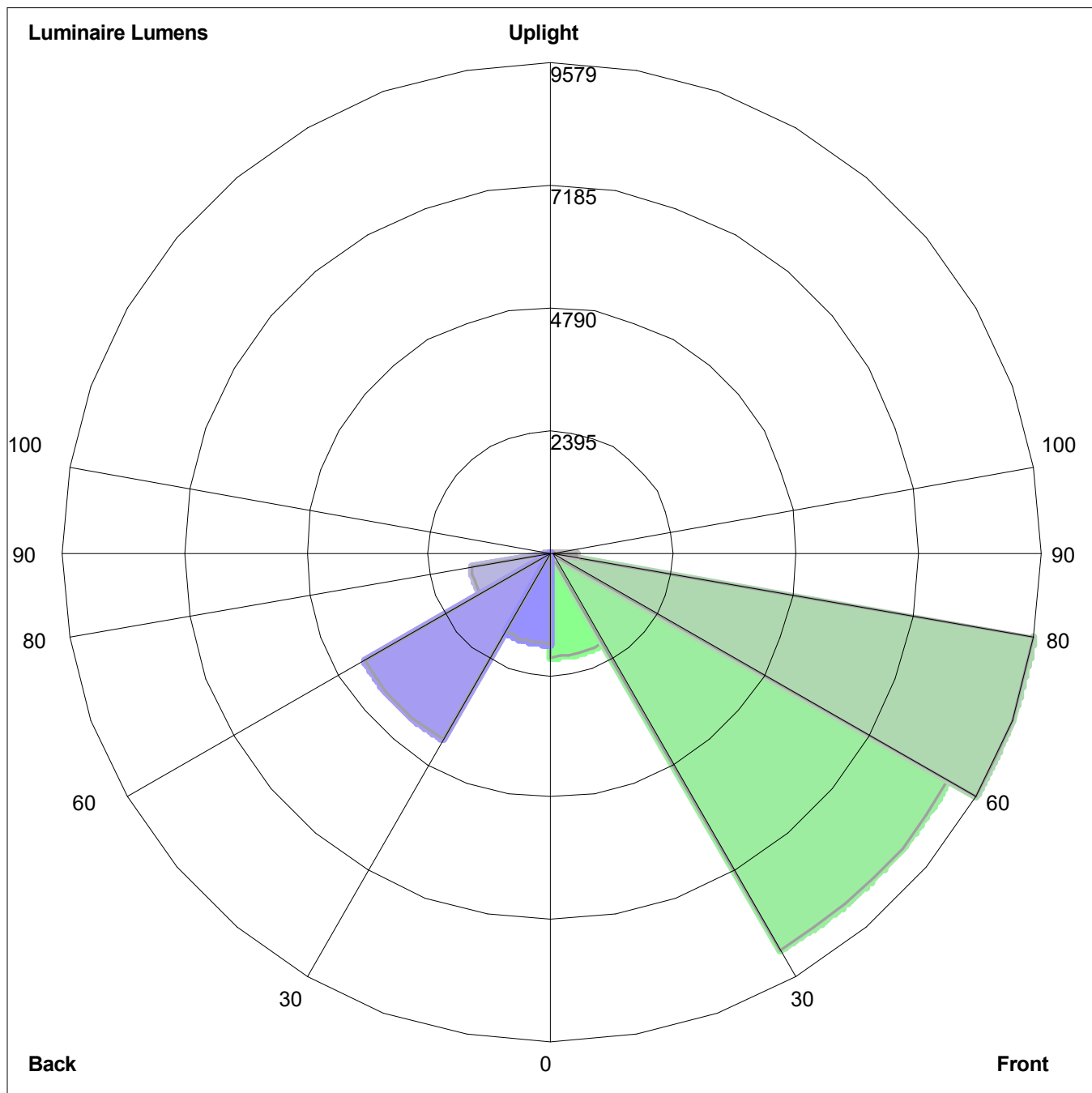


Maximum Candela = 17247 Located At Horizontal Angle = 42.5, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (42.5 - 222.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=2041.3, Medium=8969.2, High=9579.4, Very High=515.5
Back: Low=1786.1, Medium=4213.4, High=1583.3, Very High=122.4
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G4