



IES ROAD REPORT
PHOTOMETRIC FILENAME : ENM4-SAX-2-LED-25L-30.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-30
[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	25693
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	227.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	17859
Maximum Candela Angle	77.5H 65V
Maximum Candela (<90 Degrees Vertical)	17859
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	1495 (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)	1935.8	N.A.	7.5
FM - Front-Medium (30-60)	9274.0	N.A.	36.1
FH - Front-High (60-80)	5088.2	N.A.	19.8
FVH - Front-Very High (80-90)	124.7	N.A.	0.5
BL - Back-Low (0-30)	1740.0	N.A.	6.8
BM - Back-Medium (30-60)	5508.2	N.A.	21.4
BH - Back-High (60-80)	1881.7	N.A.	7.3
BVH - Back-Very High (80-90)	140.7	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	25693.3	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	3768	3768	3768	3768	3768	3768	3768	3768	3768	3768
2.5	3814	3813	3822	3815	3807	3808	3791	3786	3792	3759
5.0	3875	3871	3876	3881	3884	3890	3871	3853	3838	3817
7.5	3926	3925	3943	3935	3954	3966	3961	3928	3902	3900
10.0	3974	3991	3997	4016	4030	4037	4039	4028	4016	3996
12.5	4028	4035	4047	4080	4122	4135	4158	4169	4146	4132
15.0	4087	4093	4128	4169	4217	4258	4282	4298	4289	4266
17.5	4155	4171	4205	4259	4327	4386	4439	4453	4462	4454
20.0	4254	4268	4291	4364	4448	4533	4616	4673	4672	4644
22.5	4403	4412	4435	4520	4602	4704	4796	4885	4913	4908
25.0	4590	4613	4649	4695	4793	4904	5008	5132	5179	5182
27.5	4803	4820	4868	4954	5042	5147	5260	5419	5482	5455
30.0	5105	5106	5148	5256	5339	5437	5527	5707	5796	5759
32.5	5450	5429	5503	5589	5704	5772	5866	6011	6120	6110
35.0	5812	5800	5854	5983	6122	6193	6230	6355	6452	6463
37.5	6183	6193	6262	6404	6588	6702	6686	6764	6823	6876
40.0	6559	6566	6689	6861	7080	7267	7232	7217	7270	7318
42.5	6873	6906	7021	7272	7591	7836	7799	7702	7764	7808
45.0	7128	7190	7329	7642	8088	8432	8506	8336	8333	8400
47.5	7268	7325	7492	7898	8506	9077	9275	9071	9056	9058
50.0	7097	7135	7395	7888	8752	9663	10163	10022	9991	9992
52.5	6627	6643	6905	7564	8676	10080	11125	11150	11147	11161
55.0	5816	5766	6096	6783	8140	10228	12021	12391	12384	12394
57.5	4642	4685	5037	5629	7126	9831	12740	13674	13834	13900
60.0	3486	3514	3800	4346	5640	8842	13008	15033	15505	15560
62.5	2519	2540	2709	3087	4069	7055	12674	16072	16915	16980
65.0	1798	1812	1902	2138	2663	5207	11423	16111	17834	17859
67.5	1302	1306	1363	1512	1830	3501	8970	14503	17382	17215
70.0	862	870	932	1061	1345	2254	6277	11443	14281	13532
72.5	533	551	564	712	976	1649	4009	7544	9010	7949
75.0	313	332	300	402	656	1235	2494	4511	4207	3536
77.5	233	269	222	254	386	874	1556	2672	2117	1711
80.0	219	246	199	188	255	616	853	1495	1185	967
82.5	216	221	167	135	169	407	427	758	676	568
85.0	184	181	122	90	97	219	226	210	308	275
87.5	96	85	67	42	40	74	67	54	64	58
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	3768	3768	3768	3768	3768	3768	3768	3768	3768	3768
2.5	3793	3772	3767	3763	3755	3758	3746	3751	3754	3737
5.0	3830	3816	3805	3775	3768	3750	3740	3719	3717	3707
7.5	3905	3880	3864	3808	3773	3754	3719	3704	3692	3691
10.0	3990	3960	3936	3859	3825	3770	3712	3705	3682	3679
12.5	4113	4062	4026	3927	3867	3791	3746	3719	3692	3683
15.0	4239	4197	4144	4020	3922	3830	3771	3743	3725	3730
17.5	4435	4372	4301	4113	3979	3871	3791	3791	3796	3832
20.0	4623	4550	4480	4234	4042	3905	3831	3868	3916	3992
22.5	4873	4748	4676	4372	4130	3961	3899	3977	4088	4196
25.0	5112	5004	4873	4520	4211	4026	4002	4134	4300	4435
27.5	5409	5265	5083	4668	4303	4098	4144	4322	4528	4685

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CANDELA TABULATION - (Cont.)

30.0	5701	5527	5341	4822	4404	4183	4309	4525	4757	4938
32.5	6021	5845	5617	4981	4496	4275	4490	4739	4973	5171
35.0	6386	6201	5892	5148	4572	4409	4658	4919	5153	5347
37.5	6829	6534	6219	5312	4631	4547	4791	5038	5279	5418
40.0	7289	6985	6539	5471	4715	4652	4870	5076	5254	5328
42.5	7793	7484	6926	5629	4811	4737	4864	5006	5065	5039
45.0	8367	7958	7329	5755	4858	4750	4766	4792	4729	4629
47.5	9064	8583	7719	5826	4868	4655	4568	4461	4281	4133
50.0	9917	9217	8176	5837	4836	4480	4281	4073	3807	3638
52.5	10884	10032	8681	5795	4736	4234	3953	3684	3371	3200
55.0	12011	10962	9178	5716	4594	3960	3613	3324	2972	2787
57.5	13276	11855	9626	5567	4401	3652	3279	2983	2591	2450
60.0	14751	12578	9755	5272	4075	3305	2936	2641	2235	2108
62.5	15743	12807	9366	4728	3631	2883	2530	2252	1834	1714
65.0	15874	12162	8118	3936	3029	2389	2087	1833	1448	1307
67.5	14122	10042	6084	2949	2389	1870	1607	1432	1118	1055
70.0	9754	6479	3781	2062	1786	1388	1249	1091	922	880
72.5	4773	3269	2170	1428	1328	1060	976	880	749	664
75.0	1883	1524	1334	1001	993	841	794	669	476	410
77.5	966	875	843	770	773	691	579	428	345	331
80.0	603	539	519	606	624	509	356	321	341	365
82.5	383	282	275	471	470	300	264	306	535	532
85.0	184	133	141	322	190	197	210	304	510	456
87.5	50	34	40	54	65	67	63	90	177	128
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

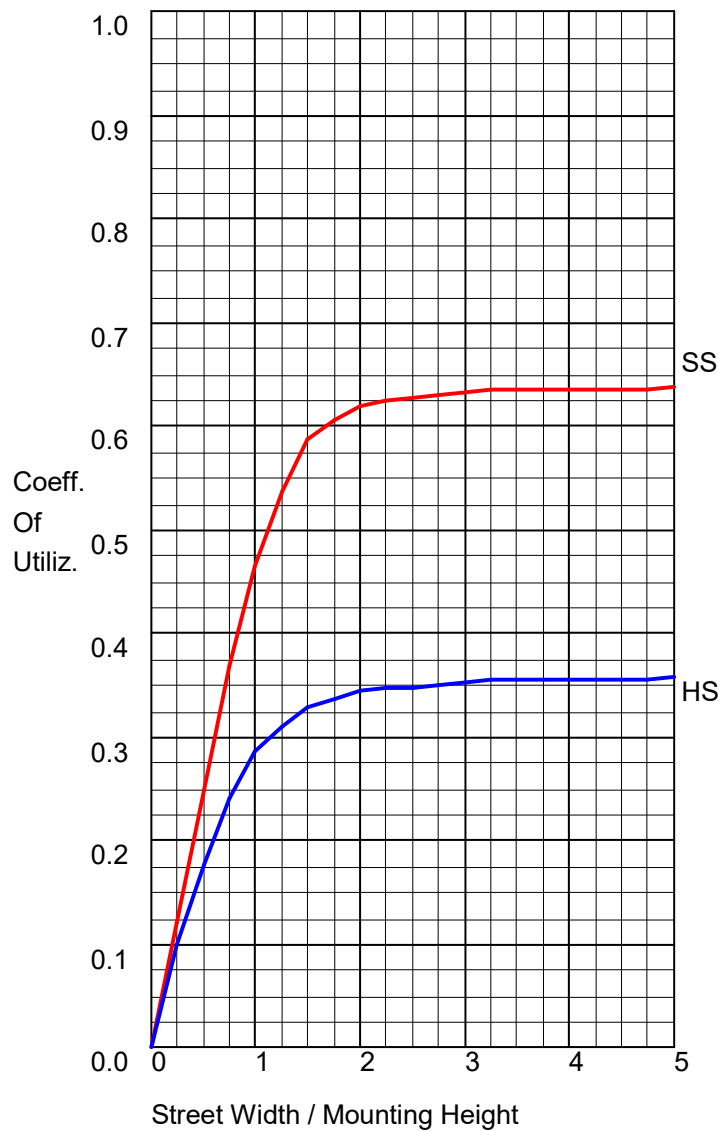
	<u>175.0</u>	<u>180.0</u>
0.0	3768	3768
2.5	3731	3743
5.0	3688	3692
7.5	3666	3650
10.0	3655	3643
12.5	3672	3665
15.0	3735	3725
17.5	3856	3843
20.0	4041	4022
22.5	4255	4273
25.0	4491	4539
27.5	4748	4798
30.0	5032	5047
32.5	5278	5274
35.0	5437	5449
37.5	5473	5485
40.0	5357	5353
42.5	5070	5057
45.0	4580	4590
47.5	4051	4061
50.0	3557	3573
52.5	3119	3083
55.0	2698	2670
57.5	2372	2326
60.0	2002	1968
62.5	1611	1587
65.0	1255	1240

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CANDELA TABULATION - (Cont.)

67.5	1051	1051
70.0	904	916
72.5	682	686
75.0	476	531
77.5	387	448
80.0	430	460
82.5	561	562
85.0	461	451
87.5	70	122
90.0	0	0

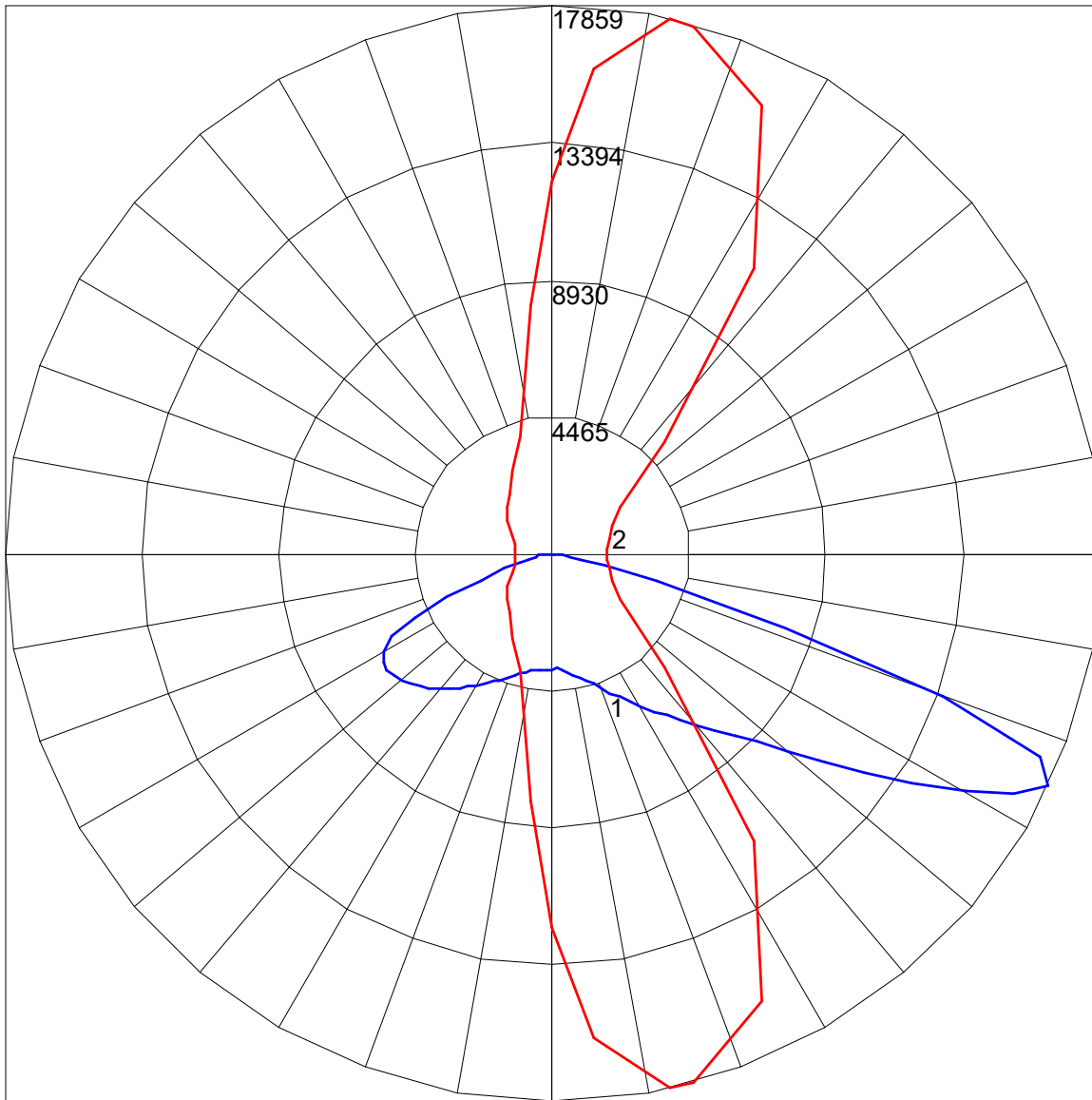
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

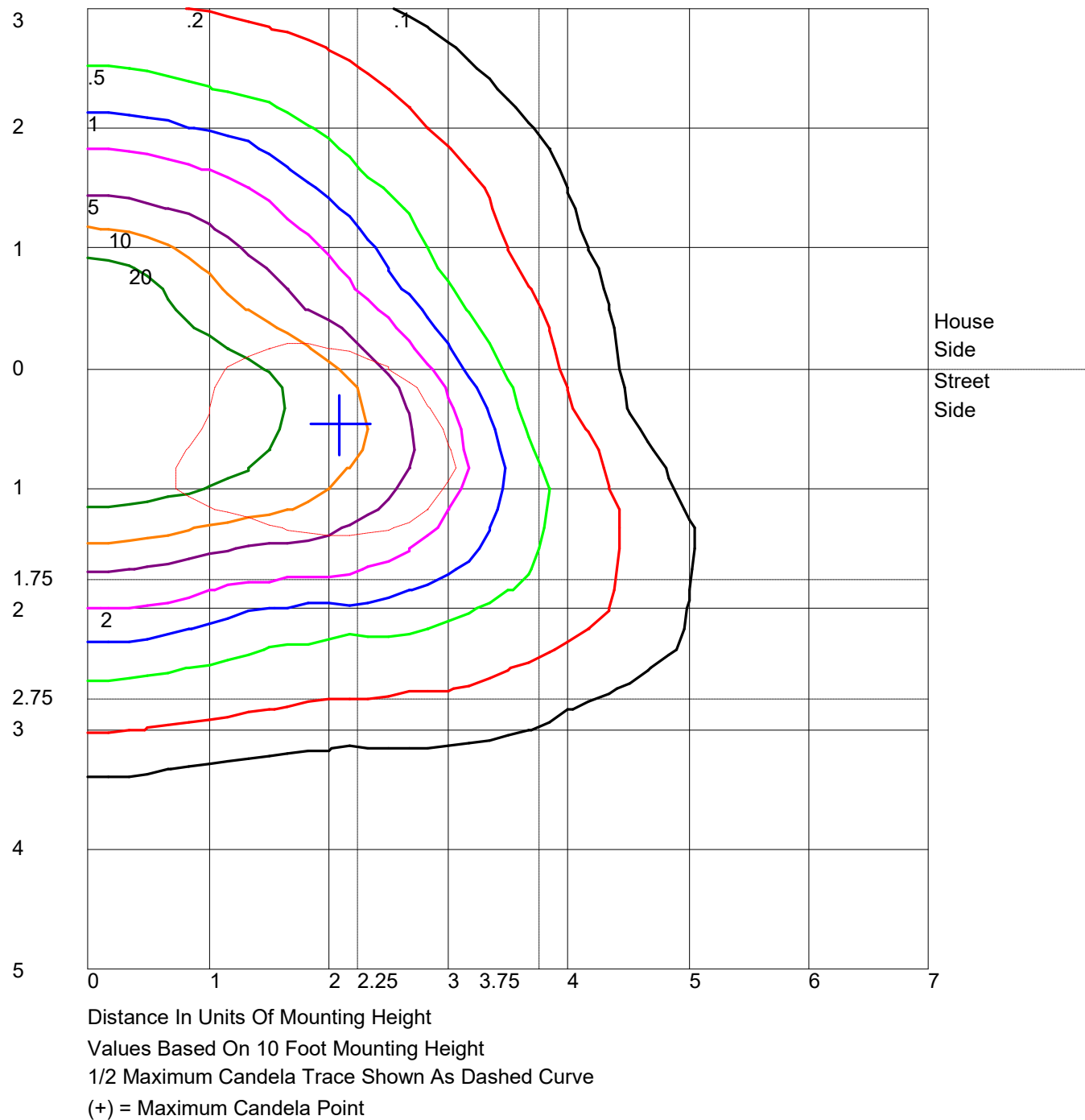
	Lumens	Percent Of Luminaire
Downward Street Side	16422.7	63.9
Downward House Side	9270.7	36.1
Downward Total	25693.4	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	25693.4	100.0

POLAR GRAPH

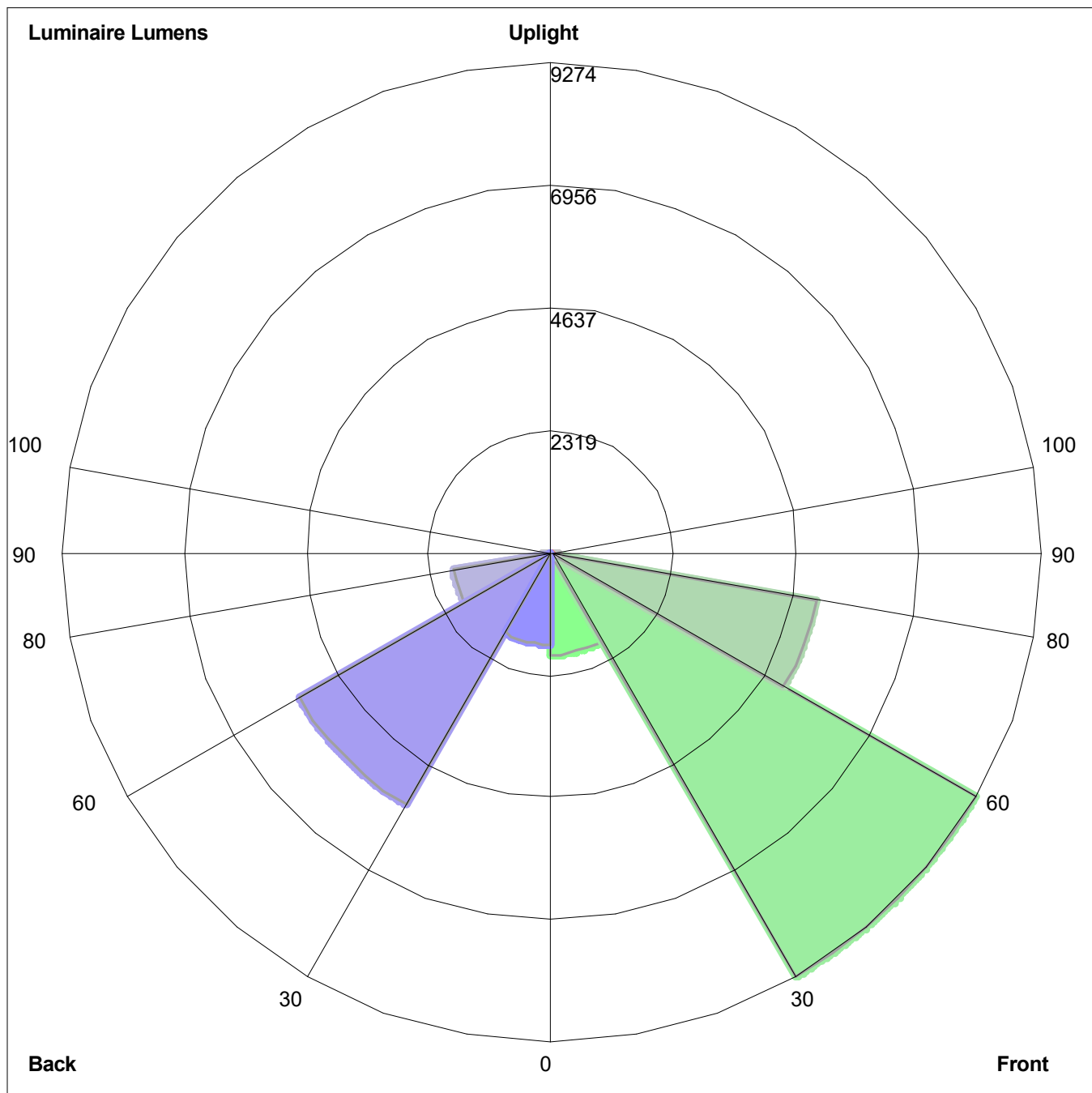


Maximum Candela = 17859 Located At Horizontal Angle = 77.5, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (77.5 - 257.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1935.8, Medium= 9274.0, High=5088.2, Very High=124.7
Back: Low= 1740.0, Medium=5508.2, High=1881.7, Very High=140.7
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G3