



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-SAX-2-LED-25L-40.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

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] ENM4-SAX-2-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 II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	28564
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	227.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	19854
Maximum Candela Angle	77.5H 65V
Maximum Candela (<90 Degrees Vertical)	19854
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	1662 (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)	2152.1	N.A.	7.5
FM - Front-Medium (30-60)	10310.2	N.A.	36.1
FH - Front-High (60-80)	5656.8	N.A.	19.8
FVH - Front-Very High (80-90)	138.7	N.A.	0.5
BL - Back-Low (0-30)	1934.4	N.A.	6.8
BM - Back-Medium (30-60)	6123.7	N.A.	21.4
BH - Back-High (60-80)	2092.0	N.A.	7.3
BVH - Back-Very High (80-90)	156.4	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	28564.3	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	4189	4189	4189	4189	4189	4189	4189	4189	4189	4189
2.5	4240	4239	4249	4241	4232	4233	4215	4209	4216	4179
5.0	4308	4304	4309	4315	4318	4325	4303	4284	4267	4244
7.5	4365	4364	4384	4375	4396	4409	4404	4367	4338	4336
10.0	4418	4437	4444	4465	4480	4488	4490	4478	4465	4443
12.5	4478	4486	4499	4536	4583	4597	4623	4635	4609	4594
15.0	4544	4550	4589	4635	4688	4734	4760	4778	4768	4743
17.5	4619	4637	4675	4735	4810	4876	4935	4950	4961	4952
20.0	4729	4745	4770	4852	4945	5040	5132	5195	5194	5163
22.5	4895	4905	4930	5025	5116	5230	5332	5431	5462	5456
25.0	5103	5128	5168	5220	5328	5452	5567	5705	5758	5761
27.5	5340	5359	5412	5508	5605	5722	5848	6024	6094	6065
30.0	5675	5677	5723	5843	5935	6045	6145	6345	6444	6403
32.5	6059	6036	6118	6213	6341	6417	6521	6683	6804	6793
35.0	6461	6448	6508	6652	6806	6885	6926	7065	7173	7185
37.5	6874	6885	6962	7119	7324	7451	7433	7520	7585	7644
40.0	7292	7300	7436	7628	7871	8079	8040	8023	8082	8136
42.5	7641	7678	7806	8085	8439	8712	8670	8562	8632	8680
45.0	7924	7993	8148	8496	8992	9374	9456	9267	9264	9339
47.5	8080	8143	8329	8780	9456	10091	10311	10084	10068	10070
50.0	7890	7932	8221	8769	9730	10743	11299	11142	11107	11108
52.5	7367	7385	7676	8409	9645	11206	12368	12396	12392	12408
55.0	6466	6410	6777	7541	9049	11371	13364	13775	13768	13779
57.5	5161	5208	5600	6258	7922	10929	14163	15202	15380	15453
60.0	3875	3907	4225	4832	6270	9830	14461	16713	17237	17299
62.5	2801	2824	3012	3432	4524	7843	14090	17868	18805	18877
65.0	1999	2015	2115	2377	2961	5789	12699	17911	19827	19854
67.5	1447	1452	1515	1681	2034	3892	9972	16123	19324	19138
70.0	958	967	1036	1180	1495	2506	6978	12721	15877	15044
72.5	592	613	627	792	1085	1833	4457	8387	10017	8837
75.0	348	369	334	447	729	1373	2773	5015	4677	3931
77.5	259	299	247	282	429	972	1730	2971	2354	1902
80.0	243	274	221	209	284	685	948	1662	1317	1075
82.5	240	246	186	150	188	453	475	843	752	632
85.0	205	201	136	100	108	243	251	234	342	306
87.5	107	95	75	47	45	82	75	60	71	65
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	4189	4189	4189	4189	4189	4189	4189	4189	4189	4189
2.5	4217	4193	4188	4183	4174	4178	4165	4170	4173	4155
5.0	4258	4242	4230	4197	4189	4169	4158	4135	4132	4121
7.5	4341	4313	4296	4234	4195	4173	4134	4118	4104	4103
10.0	4436	4403	4376	4290	4252	4191	4127	4119	4093	4090
12.5	4572	4516	4476	4366	4299	4215	4165	4135	4104	4094
15.0	4713	4666	4607	4469	4360	4258	4192	4161	4141	4147
17.5	4931	4861	4781	4573	4424	4303	4215	4215	4220	4260
20.0	5140	5058	4980	4707	4494	4341	4259	4300	4353	4438
22.5	5418	5279	5198	4860	4591	4404	4335	4421	4545	4665
25.0	5683	5563	5418	5025	4682	4476	4449	4596	4780	4931
27.5	6013	5853	5651	5189	4784	4556	4607	4805	5034	5208

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CANDELA TABULATION - (Cont.)

30.0	6338	6144	5938	5361	4896	4650	4790	5031	5288	5490
32.5	6694	6498	6245	5538	4998	4753	4992	5268	5529	5749
35.0	7100	6894	6550	5723	5083	4902	5178	5469	5729	5944
37.5	7592	7264	6914	5905	5148	5055	5326	5601	5869	6023
40.0	8103	7765	7270	6082	5242	5172	5414	5643	5841	5923
42.5	8664	8320	7700	6258	5349	5266	5408	5565	5631	5602
45.0	9302	8847	8148	6398	5401	5281	5298	5327	5257	5146
47.5	10077	9542	8581	6477	5412	5175	5078	4959	4759	4595
50.0	11025	10247	9090	6489	5376	4981	4759	4528	4232	4044
52.5	12100	11153	9651	6443	5265	4707	4395	4096	3748	3558
55.0	13353	12187	10203	6355	5107	4402	4017	3695	3304	3098
57.5	14759	13179	10702	6189	4893	4060	3645	3316	2880	2724
60.0	16399	13983	10845	5861	4530	3674	3264	2936	2485	2344
62.5	17502	14238	10412	5256	4037	3205	2813	2504	2039	1905
65.0	17648	13521	9025	4376	3367	2656	2320	2038	1610	1453
67.5	15700	11164	6764	3278	2656	2079	1787	1592	1243	1173
70.0	10844	7203	4204	2292	1986	1543	1389	1213	1025	978
72.5	5306	3634	2412	1588	1476	1178	1085	978	833	738
75.0	2093	1694	1483	1113	1104	935	883	744	529	456
77.5	1074	973	937	856	859	768	644	476	383	368
80.0	670	599	577	674	694	566	396	357	379	406
82.5	426	314	306	524	522	333	293	340	595	591
85.0	205	148	157	358	211	219	234	338	567	507
87.5	56	38	44	60	72	74	70	100	197	142
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

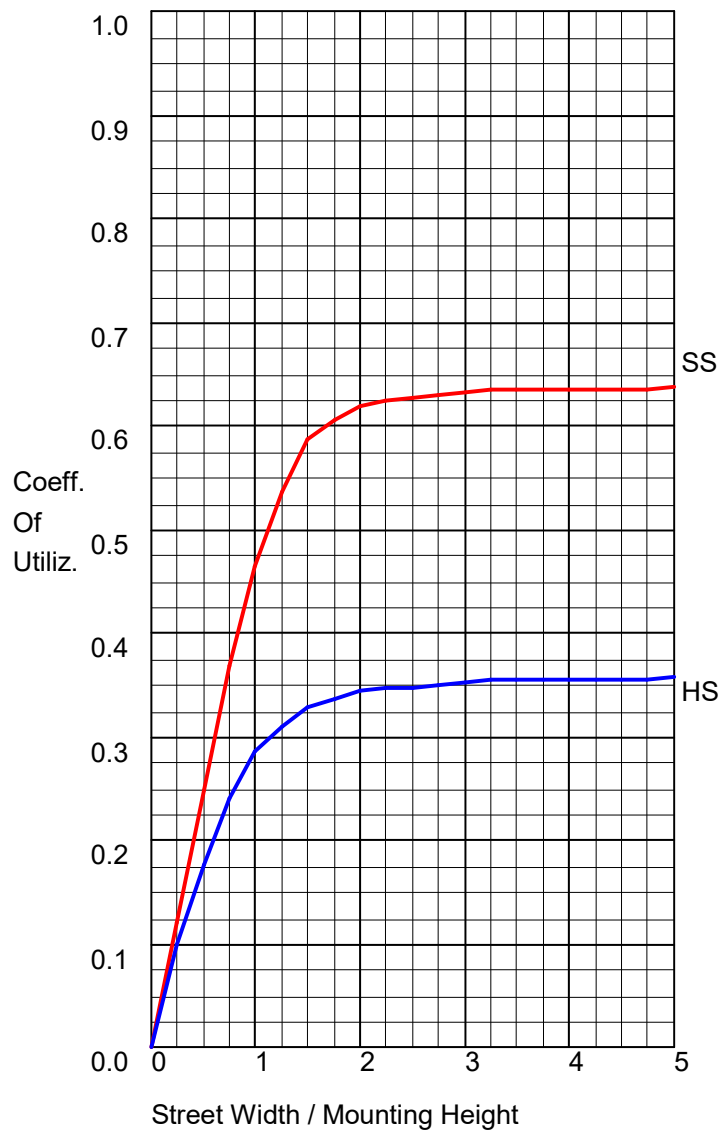
	<u>175.0</u>	<u>180.0</u>
0.0	4189	4189
2.5	4148	4161
5.0	4100	4104
7.5	4076	4058
10.0	4063	4050
12.5	4082	4074
15.0	4152	4141
17.5	4287	4272
20.0	4492	4471
22.5	4730	4750
25.0	4993	5046
27.5	5278	5334
30.0	5594	5611
32.5	5868	5863
35.0	6045	6058
37.5	6084	6098
40.0	5956	5951
42.5	5636	5622
45.0	5092	5103
47.5	4504	4515
50.0	3954	3972
52.5	3468	3428
55.0	2999	2968
57.5	2637	2586
60.0	2226	2188
62.5	1791	1764
65.0	1395	1379

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CANDELA TABULATION - (Cont.)

67.5	1168	1168
70.0	1005	1018
72.5	758	763
75.0	529	590
77.5	430	498
80.0	478	511
82.5	624	625
85.0	512	501
87.5	78	136
90.0	0	0

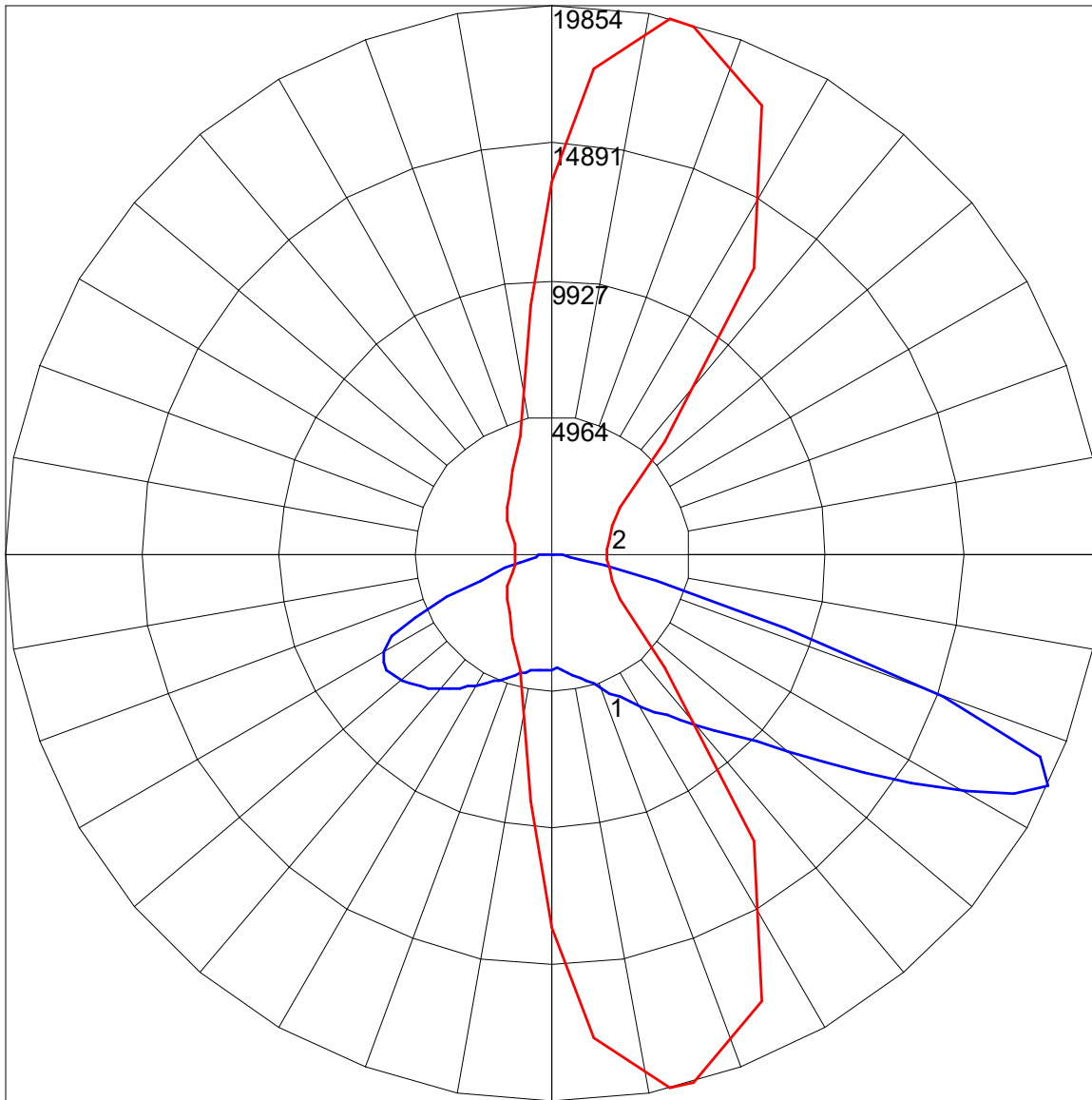
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

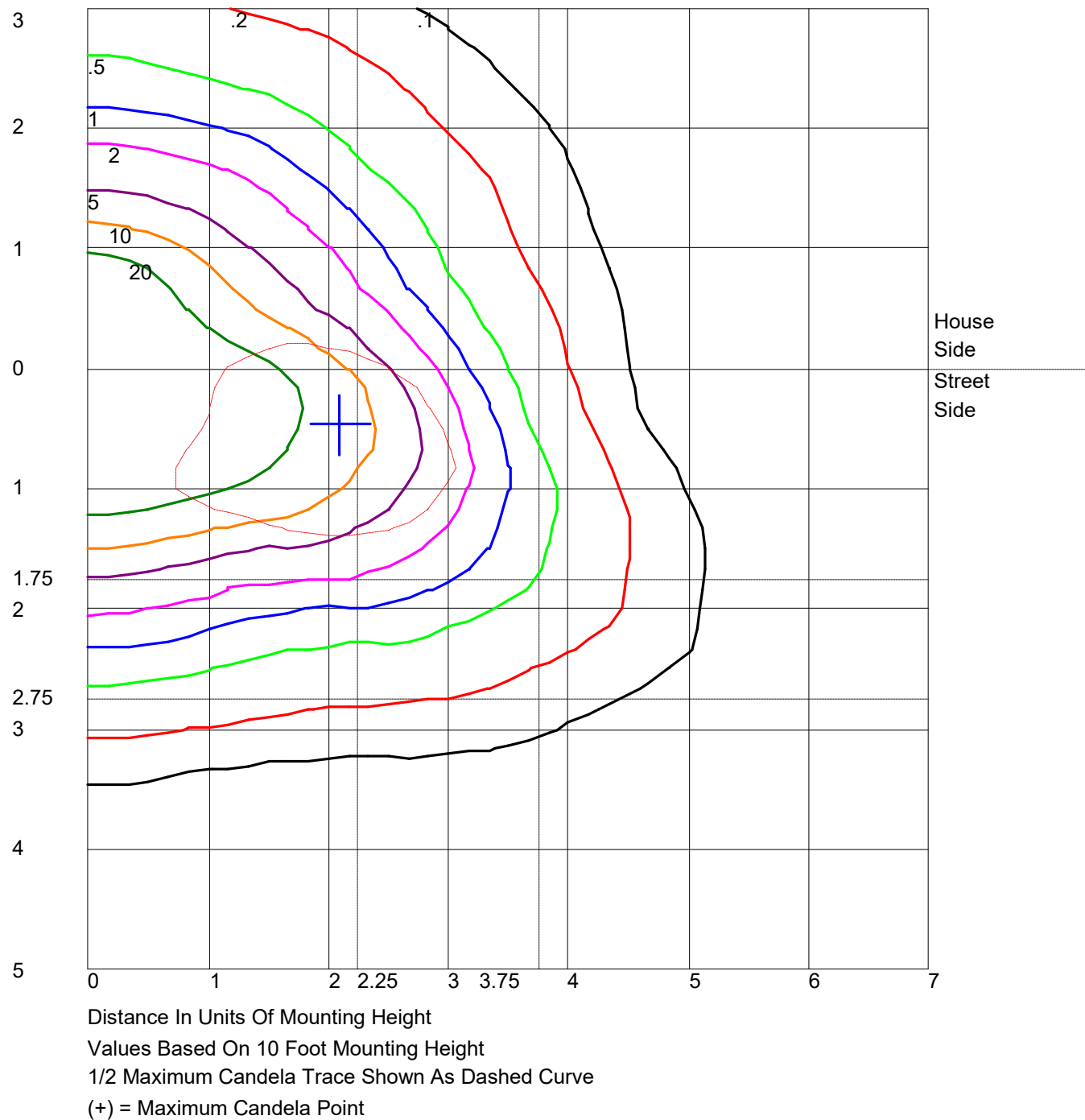
	Lumens	Percent Of Luminaire
Downward Street Side	18257.7	63.9
Downward House Side	10306.5	36.1
Downward Total	28564.2	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	28564.2	100.0

POLAR GRAPH

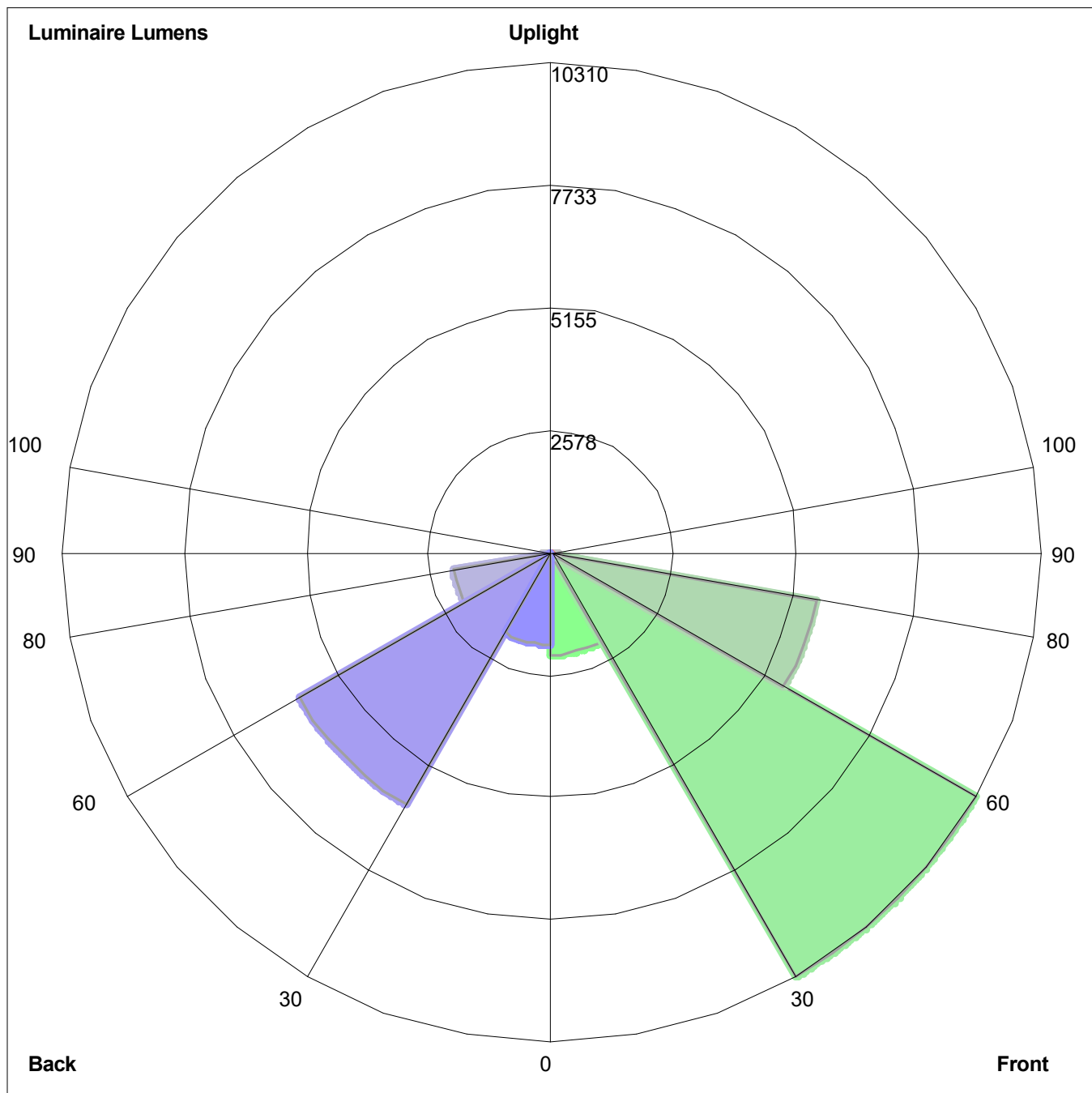


Maximum Candela = 19854 Located At Horizontal Angle = 77.5, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (77.5 - 257.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=2152.1, Medium=10310.2, High=5656.8, Very High=138.7
Back: Low=1934.4, Medium=6123.7, High= 2092.0, Very High=156.4
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G3