



IES ROAD REPORT
PHOTOMETRIC FILENAME : ENM4-SAX-FT-LED-25L-30.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-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 IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	25590
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	228
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	15319
Maximum Candela Angle	42.5H 70V
Maximum Candela (<90 Degrees Vertical)	15319
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	4274 (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)	1813.1	N.A.	7.1
FM - Front-Medium (30-60)	7966.5	N.A.	31.1
FH - Front-High (60-80)	8508.5	N.A.	33.2
FVH - Front-Very High (80-90)	457.8	N.A.	1.8
BL - Back-Low (0-30)	1586.5	N.A.	6.2
BM - Back-Medium (30-60)	3742.3	N.A.	14.6
BH - Back-High (60-80)	1406.2	N.A.	5.5
BVH - Back-Very High (80-90)	108.7	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	25589.6	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	3804	3804	3804	3804	3804	3804	3804	3804	3804	3804
2.5	3869	3860	3865	3863	3856	3849	3865	3851	3841	3833
5.0	3920	3923	3924	3931	3936	3919	3937	3921	3906	3883
7.5	3939	3928	3935	3958	3982	3968	3989	3998	3982	3952
10.0	3944	3929	3950	3975	3999	4001	4022	4050	4064	4032
12.5	3975	3959	3990	4000	4023	4032	4056	4097	4122	4121
15.0	4023	4014	4048	4047	4079	4080	4100	4150	4178	4213
17.5	4095	4084	4106	4113	4147	4153	4157	4209	4245	4304
20.0	4195	4174	4180	4195	4214	4230	4233	4284	4324	4389
22.5	4281	4281	4280	4307	4304	4314	4321	4358	4397	4461
25.0	4436	4421	4413	4431	4437	4421	4429	4446	4468	4527
27.5	4621	4612	4597	4589	4607	4571	4583	4545	4564	4597
30.0	4814	4828	4810	4796	4778	4755	4749	4675	4654	4669
32.5	5073	5074	5046	5033	4993	4970	4953	4839	4782	4739
35.0	5334	5345	5314	5297	5269	5224	5216	5054	4921	4828
37.5	5586	5622	5622	5594	5570	5515	5507	5317	5098	4936
40.0	5904	5902	5936	5923	5912	5864	5858	5661	5331	5081
42.5	6219	6224	6290	6312	6320	6300	6279	6077	5661	5290
45.0	6607	6591	6676	6739	6838	6799	6800	6576	6051	5553
47.5	7045	7006	7122	7251	7395	7401	7398	7160	6528	5875
50.0	7457	7466	7638	7854	8072	8117	8105	7865	7068	6263
52.5	7917	7941	8174	8518	8837	8940	8967	8690	7713	6707
55.0	8406	8446	8716	9209	9702	9877	9943	9615	8444	7221
57.5	8910	8969	9280	9901	10622	10947	10958	10634	9234	7739
60.0	9375	9451	9886	10676	11501	11947	11933	11770	10070	8170
62.5	9842	9981	10523	11515	12385	12850	12861	12664	10751	8327
65.0	10356	10427	11161	12318	13494	13932	13964	13403	10975	8016
67.5	10301	10441	11513	12993	14670	15160	15080	13585	10527	7035
70.0	8871	8988	10424	12937	15096	15319	15305	12921	8954	5255
72.5	6386	6549	8007	10959	13783	14151	13830	10972	6523	3307
75.0	3615	3782	5060	7664	10805	11425	11235	7901	4000	2019
77.5	1878	2021	2781	4365	6731	7643	7538	4892	2543	1348
80.0	961	1050	1738	2618	3614	4274	4266	2942	1585	877
82.5	633	668	1157	1697	1959	2384	2354	1558	931	510
85.0	465	512	847	1147	1370	1117	1088	688	451	259
87.5	316	360	593	626	794	362	232	249	141	101
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	3804	3804	3804	3804	3804	3804	3804	3804	3804	3804
2.5	3827	3835	3837	3809	3794	3789	3779	3753	3758	3742
5.0	3861	3867	3855	3815	3781	3762	3710	3657	3636	3621
7.5	3921	3925	3891	3828	3773	3704	3648	3599	3576	3561
10.0	4012	3996	3960	3859	3750	3665	3623	3592	3571	3566
12.5	4105	4074	4031	3905	3753	3663	3625	3608	3590	3601
15.0	4199	4167	4109	3931	3762	3682	3634	3625	3627	3619
17.5	4308	4277	4212	3976	3777	3698	3653	3635	3651	3635
20.0	4413	4377	4300	4014	3801	3706	3674	3653	3657	3639
22.5	4489	4458	4373	4026	3804	3692	3680	3653	3654	3643
25.0	4555	4533	4471	4054	3793	3681	3664	3637	3645	3642
27.5	4620	4619	4537	4075	3775	3662	3639	3611	3627	3634

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CANDELA TABULATION - (Cont.)

30.0	4681	4683	4578	4080	3735	3627	3595	3579	3599	3613
32.5	4715	4705	4625	4047	3683	3581	3547	3531	3565	3592
35.0	4763	4723	4644	4016	3629	3535	3488	3468	3523	3554
37.5	4821	4769	4664	3995	3548	3468	3400	3396	3467	3517
40.0	4885	4819	4692	3947	3449	3380	3317	3305	3404	3521
42.5	4979	4870	4713	3886	3341	3261	3197	3215	3376	3420
45.0	5131	4938	4742	3857	3216	3134	3079	3114	3344	3166
47.5	5311	5059	4790	3803	3071	2999	2931	3008	3184	2896
50.0	5565	5186	4833	3730	2896	2848	2780	2908	2966	2669
52.5	5828	5325	4914	3674	2708	2680	2610	2774	2732	2467
55.0	6105	5490	4961	3606	2515	2494	2443	2605	2497	2240
57.5	6379	5610	4971	3477	2310	2302	2277	2419	2230	2005
60.0	6501	5594	4763	3290	2106	2117	2109	2182	1957	1815
62.5	6316	5281	4119	2998	1880	1903	1901	1978	1730	1635
65.0	5735	4581	3105	2575	1671	1702	1681	1800	1540	1489
67.5	4510	3400	2162	2005	1443	1490	1500	1613	1376	1375
70.0	2954	2192	1488	1485	1211	1282	1340	1412	1225	1278
72.5	1696	1306	995	1076	989	1078	1152	1214	1073	1116
75.0	1138	848	639	778	771	871	975	987	765	735
77.5	743	548	439	549	591	687	754	604	504	561
80.0	422	322	304	401	449	507	449	442	393	447
82.5	265	209	206	287	335	289	308	338	274	334
85.0	145	103	106	179	163	178	203	191	133	211
87.5	46	21	35	60	67	71	68	65	52	81
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles **Horizontal Angles**

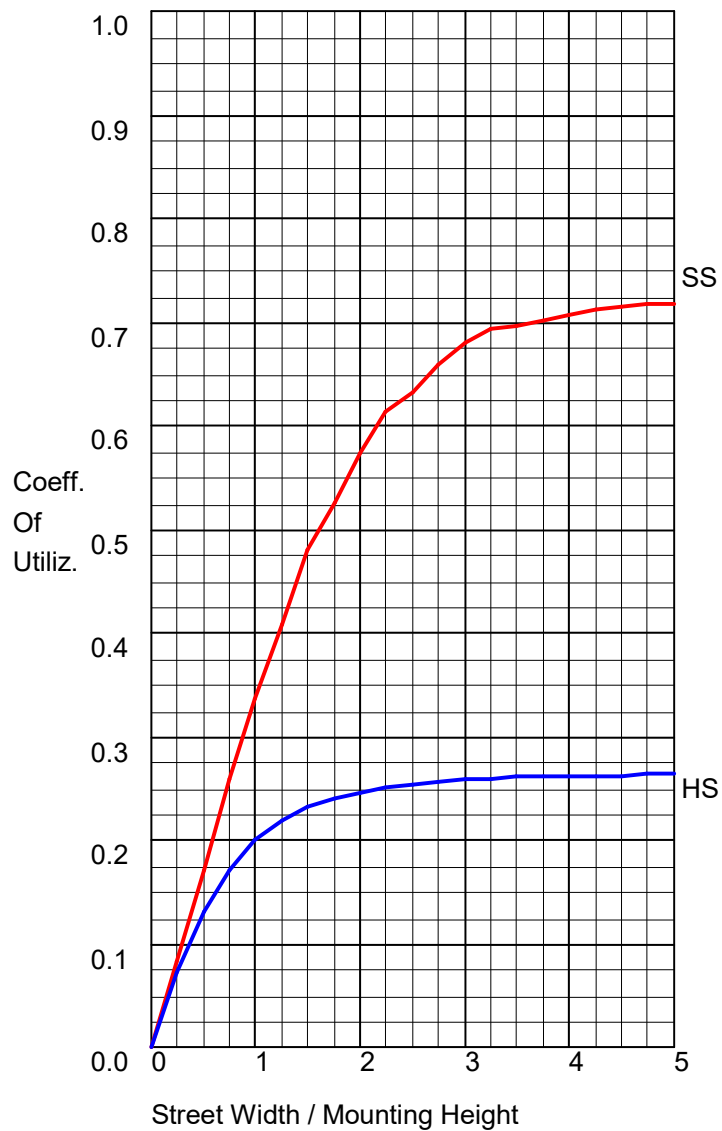
	<u>175.0</u>	<u>180.0</u>
0.0	3804	3804
2.5	3741	3721
5.0	3604	3598
7.5	3544	3563
10.0	3551	3560
12.5	3588	3579
15.0	3628	3610
17.5	3652	3631
20.0	3654	3644
22.5	3639	3655
25.0	3645	3657
27.5	3643	3642
30.0	3625	3618
32.5	3601	3591
35.0	3555	3552
37.5	3524	3543
40.0	3459	3455
42.5	3186	3158
45.0	2917	2911
47.5	2714	2708
50.0	2532	2519
52.5	2356	2336
55.0	2140	2126
57.5	1924	1911
60.0	1745	1712
62.5	1588	1579
65.0	1487	1482

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CANDELA TABULATION - (Cont.)

67.5	1416	1406
70.0	1349	1344
72.5	1188	1188
75.0	847	861
77.5	735	760
80.0	609	652
82.5	467	498
85.0	308	340
87.5	158	193
90.0	0	0

COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

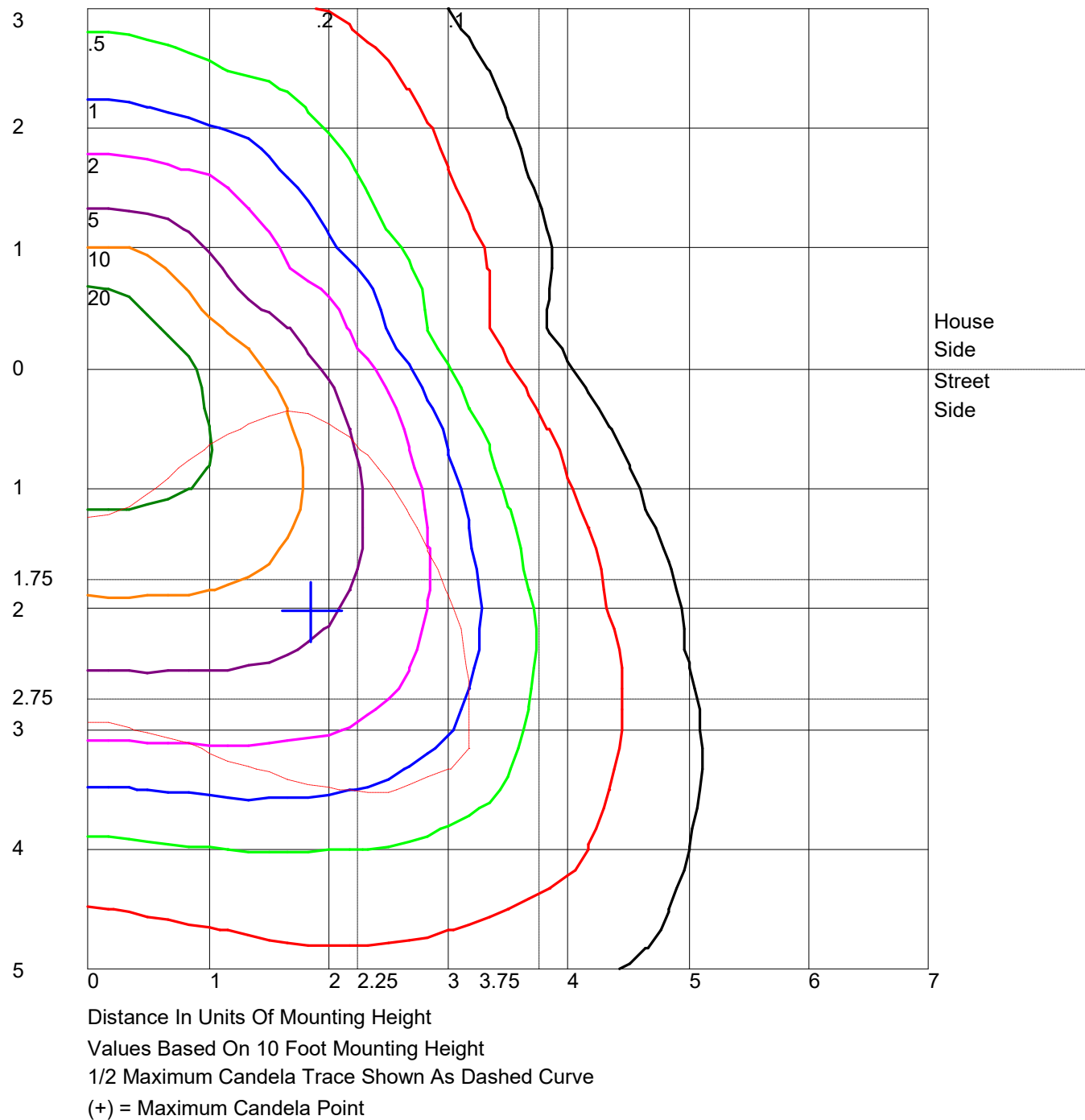
	Lumens	Percent Of Luminaire
Downward Street Side	18745.8	73.3
Downward House Side	6843.8	26.7
Downward Total	25589.6	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	25589.6	100.0

POLAR GRAPH

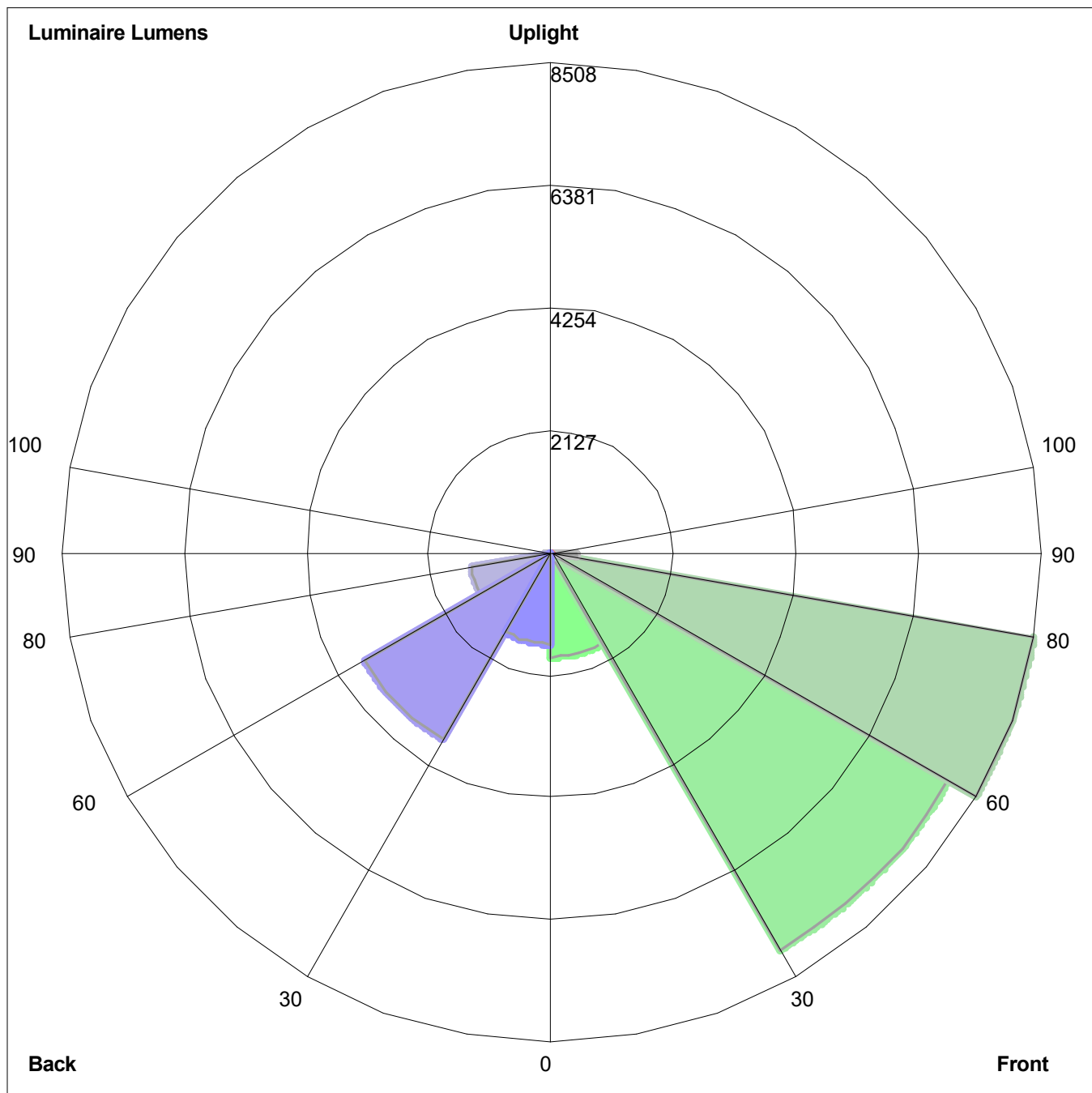


Maximum Candela = 15319 Located At Horizontal Angle = 42.5, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (42.5 - 222.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1813.1, Medium=7966.5, High=8508.5, Very High=457.8
Back: Low=1586.5, Medium=3742.3, High=1406.2, Very High=108.7
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G4