



IES ROAD REPORT
PHOTOMETRIC FILENAME : ENM4-SAX-2-LED-25L-40-IL.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11792
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/10/2020
[TEST DATE] 05/01/20
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] ENM4-SAX-2-LED-25L-40-IL
[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	21656
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	95
Total Luminaire Watts	227.3
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	19729
Maximum Candela Angle	75H 65V
Maximum Candela (<90 Degrees Vertical)	19729
Maximum Candela Angle (<90 Degrees Vertical)	75H 65V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1205 (5.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2109.0	N.A.	9.7
FM - Front-Medium (30-60)	10277.8	N.A.	47.5
FH - Front-High (60-80)	5096.4	N.A.	23.5
FVH - Front-Very High (80-90)	88.1	N.A.	0.4
BL - Back-Low (0-30)	1388.1	N.A.	6.4
BM - Back-Medium (30-60)	2068.7	N.A.	9.6
BH - Back-High (60-80)	621.2	N.A.	2.9
BVH - Back-Very High (80-90)	7.2	N.A.	0.0
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	21656.5	N.A.	100.0
BUG Rating	B3-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	3987	3987	3987	3987	3987	3987	3987	3987	3987	3987
2.5	4062	4060	4077	4071	4059	4054	4043	4016	4019	3978
5.0	4178	4143	4152	4161	4154	4139	4135	4102	4076	4034
7.5	4238	4228	4244	4244	4252	4238	4236	4197	4182	4130
10.0	4302	4294	4323	4332	4342	4356	4353	4327	4284	4254
12.5	4403	4388	4406	4418	4466	4477	4482	4474	4435	4405
15.0	4465	4454	4491	4530	4586	4619	4639	4628	4595	4586
17.5	4527	4546	4592	4632	4706	4789	4832	4829	4817	4802
20.0	4641	4675	4705	4780	4854	4960	5012	5073	5068	5020
22.5	4826	4844	4900	4967	5060	5140	5255	5342	5323	5296
25.0	5060	5077	5128	5187	5265	5371	5512	5619	5639	5615
27.5	5311	5325	5367	5471	5571	5668	5761	5934	5973	5947
30.0	5648	5667	5729	5790	5923	6020	6133	6274	6317	6320
32.5	6042	6057	6105	6218	6317	6444	6513	6628	6714	6739
35.0	6453	6449	6544	6673	6833	6926	6951	7017	7112	7150
37.5	6889	6894	6973	7142	7340	7473	7444	7473	7568	7642
40.0	7328	7343	7438	7652	7921	8083	8069	8019	8104	8189
42.5	7685	7738	7870	8165	8533	8772	8728	8616	8661	8906
45.0	7948	7994	8211	8551	9046	9469	9494	9300	9384	9547
47.5	8045	8020	8292	8791	9436	10155	10440	10157	10196	10348
50.0	7766	7731	8047	8685	9705	10756	11399	11294	11265	11397
52.5	7085	7102	7429	8132	9451	11198	12493	12584	12561	12710
55.0	6044	6047	6427	7215	8724	11181	13527	13951	13997	14184
57.5	4689	4722	5137	5880	7439	10567	14242	15477	15738	15936
60.0	3171	3206	3585	4326	5837	9229	14387	17099	17584	17735
62.5	1744	1803	2091	2671	3931	7316	13793	17980	18985	19187
65.0	935	943	1108	1469	2334	5265	12152	17516	19729	19555
67.5	572	588	639	878	1388	3315	9354	15349	18509	18099
70.0	372	372	404	541	891	1893	6304	11693	14179	13458
72.5	247	253	268	350	606	1210	3691	7427	8383	7571
75.0	151	153	160	210	390	885	1802	4433	4139	3411
77.5	81	84	87	111	224	613	947	2432	2105	1671
80.0	70	71	68	72	106	344	558	1028	1205	979
82.5	73	73	70	72	83	139	260	369	702	611
85.0	58	59	55	58	71	108	122	172	311	291
87.5	38	37	34	35	42	65	77	111	111	108
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	3987	3987	3987	3987	3987	3987	3987	3987	3987	3987
2.5	4020	3999	4002	3981	3962	3960	3944	3937	3939	3950
5.0	4073	4044	4017	3972	3954	3923	3901	3880	3847	3841
7.5	4139	4095	4097	4004	3961	3888	3845	3810	3782	3762
10.0	4247	4214	4154	4041	3972	3882	3819	3753	3701	3670
12.5	4387	4324	4276	4107	3996	3881	3755	3666	3627	3584
15.0	4547	4479	4390	4199	4038	3840	3698	3621	3561	3538
17.5	4738	4640	4567	4274	4045	3824	3652	3548	3455	3349
20.0	4977	4863	4741	4402	4072	3793	3594	3384	2989	2641
22.5	5231	5114	4960	4531	4088	3776	3449	2781	2202	1766
25.0	5516	5353	5159	4655	4125	3690	2895	2046	1358	949
27.5	5846	5677	5445	4782	4135	3436	2220	1239	809	657

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CANDELA TABULATION - (Cont.)

30.0	6212	6001	5706	4879	4155	2900	1499	792	623	564
32.5	6606	6371	6016	5001	4034	2279	934	632	550	511
35.0	7026	6759	6306	5105	3702	1581	702	559	505	470
37.5	7507	7176	6677	5222	3197	1009	599	507	461	420
40.0	8011	7662	7010	5296	2562	737	537	461	408	357
42.5	8633	8188	7438	5266	1779	626	483	412	339	279
45.0	9284	8739	7870	5091	1098	556	433	344	259	202
47.5	10056	9428	8294	4662	791	500	376	268	185	141
50.0	11041	10202	8823	3989	651	434	306	194	128	97
52.5	12179	11167	9365	3077	559	368	230	130	86	64
55.0	13539	12170	9834	2034	497	300	164	86	54	42
57.5	15017	13188	10160	1313	453	235	111	54	33	24
60.0	16376	13764	10172	1001	423	178	70	31	14	8
62.5	17294	13842	9491	801	390	132	40	12	7	5
65.0	17102	13016	7954	642	331	96	20	7	4	3
67.5	14625	10435	5623	489	233	60	8	4	3	2
70.0	9807	6525	3095	349	149	34	5	3	3	2
72.5	4533	3176	1443	251	85	13	3	3	2	1
75.0	1743	1395	683	158	46	8	3	2	1	0
77.5	899	803	385	91	21	5	2	1	1	0
80.0	574	500	241	39	8	2	0	1	1	0
82.5	378	268	136	14	5	1	1	1	2	1
85.0	213	134	55	4	1	1	1	2	2	1
87.5	73	35	3	0	0	0	1	2	2	1
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles **Horizontal Angles**

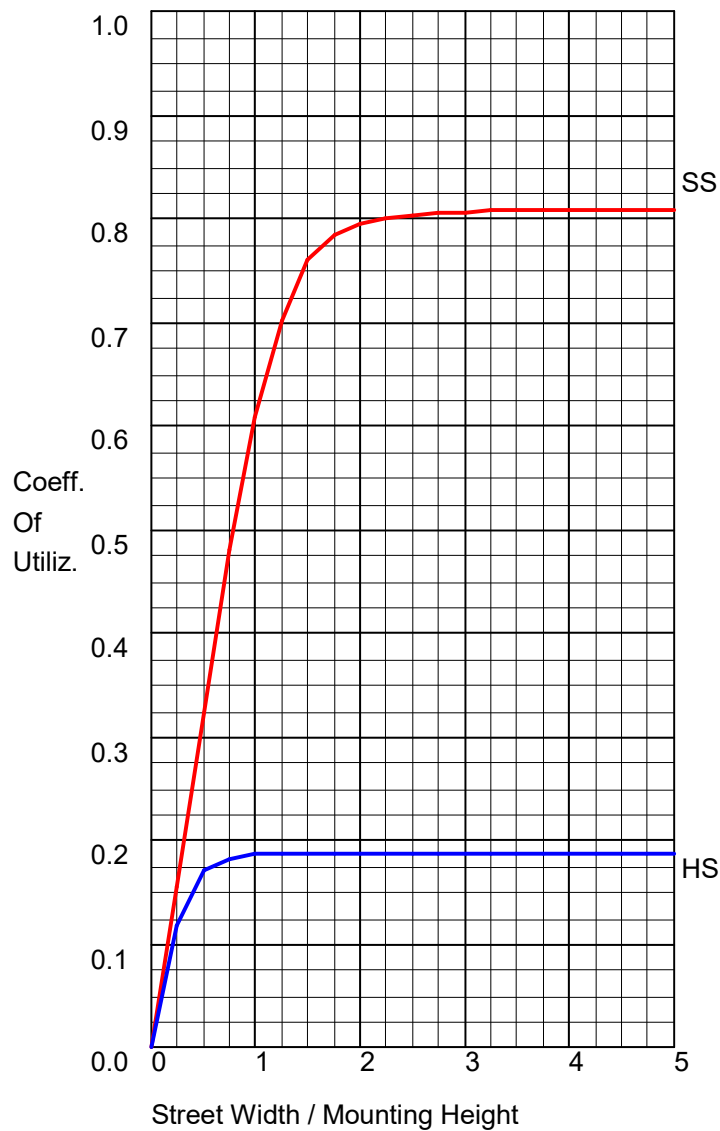
	<u>175.0</u>	<u>180.0</u>
0.0	3987	3987
2.5	3921	3920
5.0	3845	3830
7.5	3746	3727
10.0	3647	3634
12.5	3573	3573
15.0	3498	3485
17.5	3226	3192
20.0	2425	2398
22.5	1504	1476
25.0	828	819
27.5	614	606
30.0	539	537
32.5	492	486
35.0	446	445
37.5	395	391
40.0	332	328
42.5	252	245
45.0	180	174
47.5	122	121
50.0	83	81
52.5	55	54
55.0	35	34
57.5	17	16
60.0	5	5
62.5	2	0
65.0	0	0

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CANDELA TABULATION - (Cont.)

67.5	0	0
70.0	0	0
72.5	0	0
75.0	0	0
77.5	0	0
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0

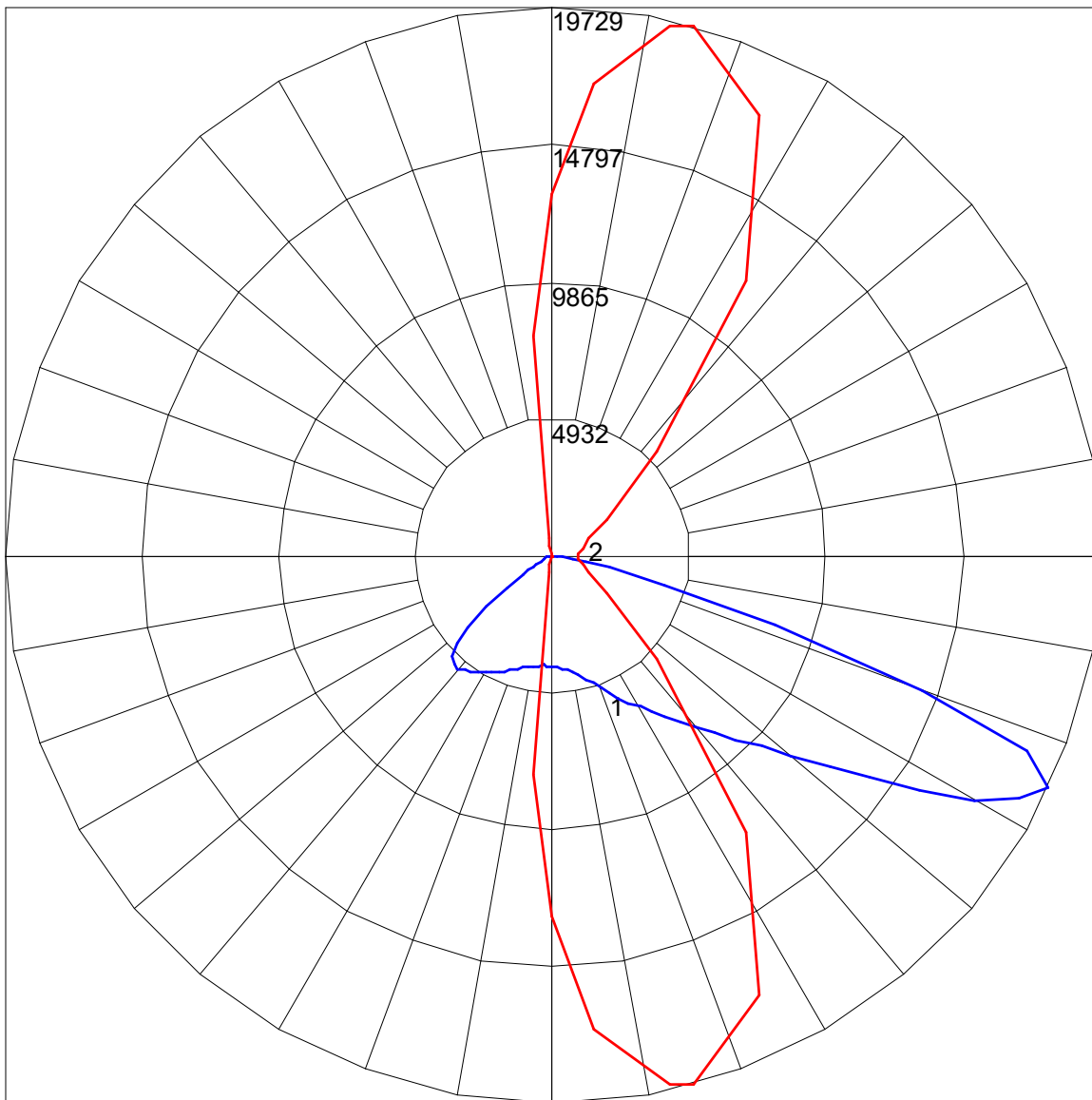
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

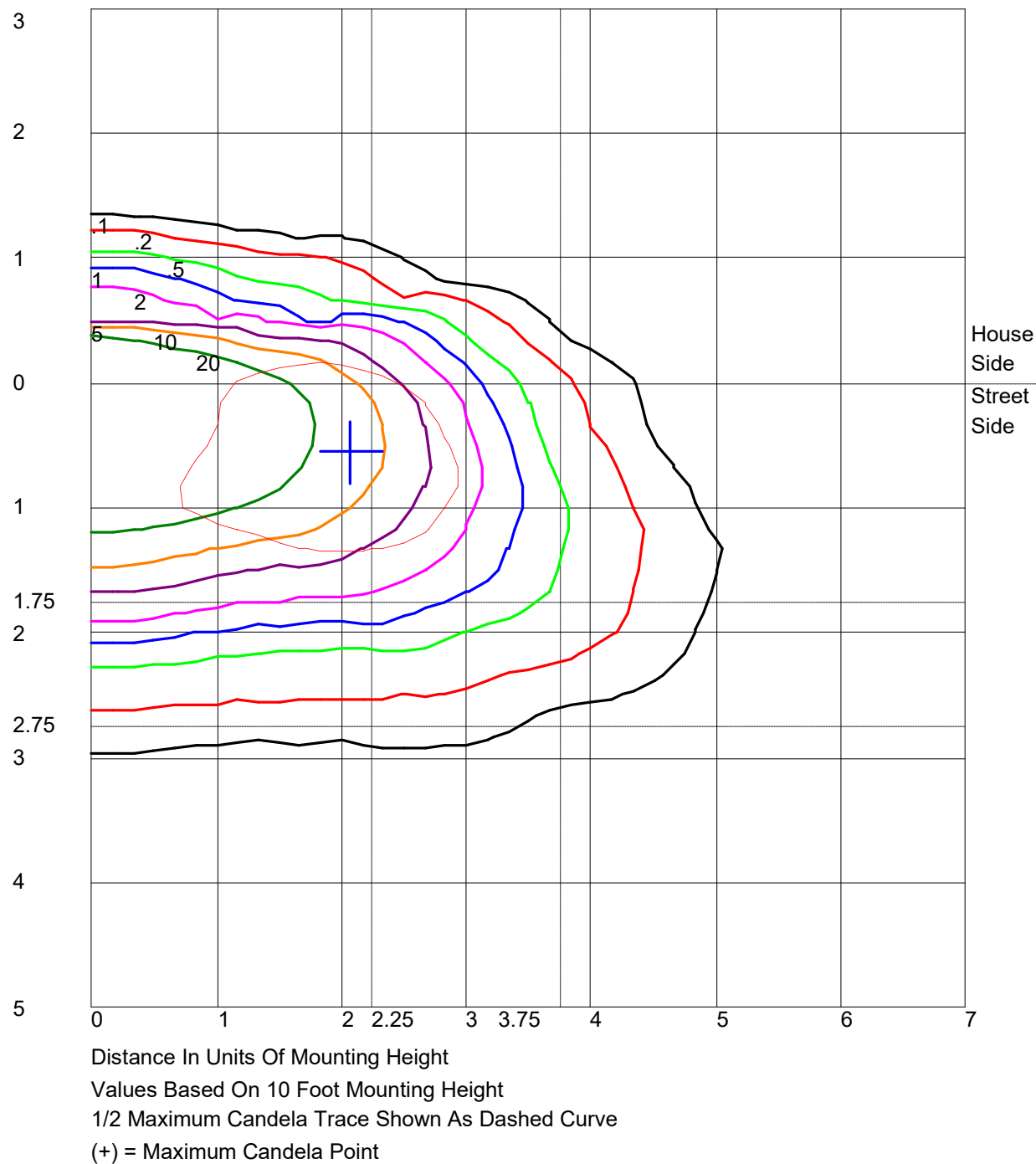
	Lumens	Percent Of Luminaire
Downward Street Side	17571.2	81.1
Downward House Side	4085.2	18.9
Downward Total	21656.4	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	21656.4	100.0

POLAR GRAPH

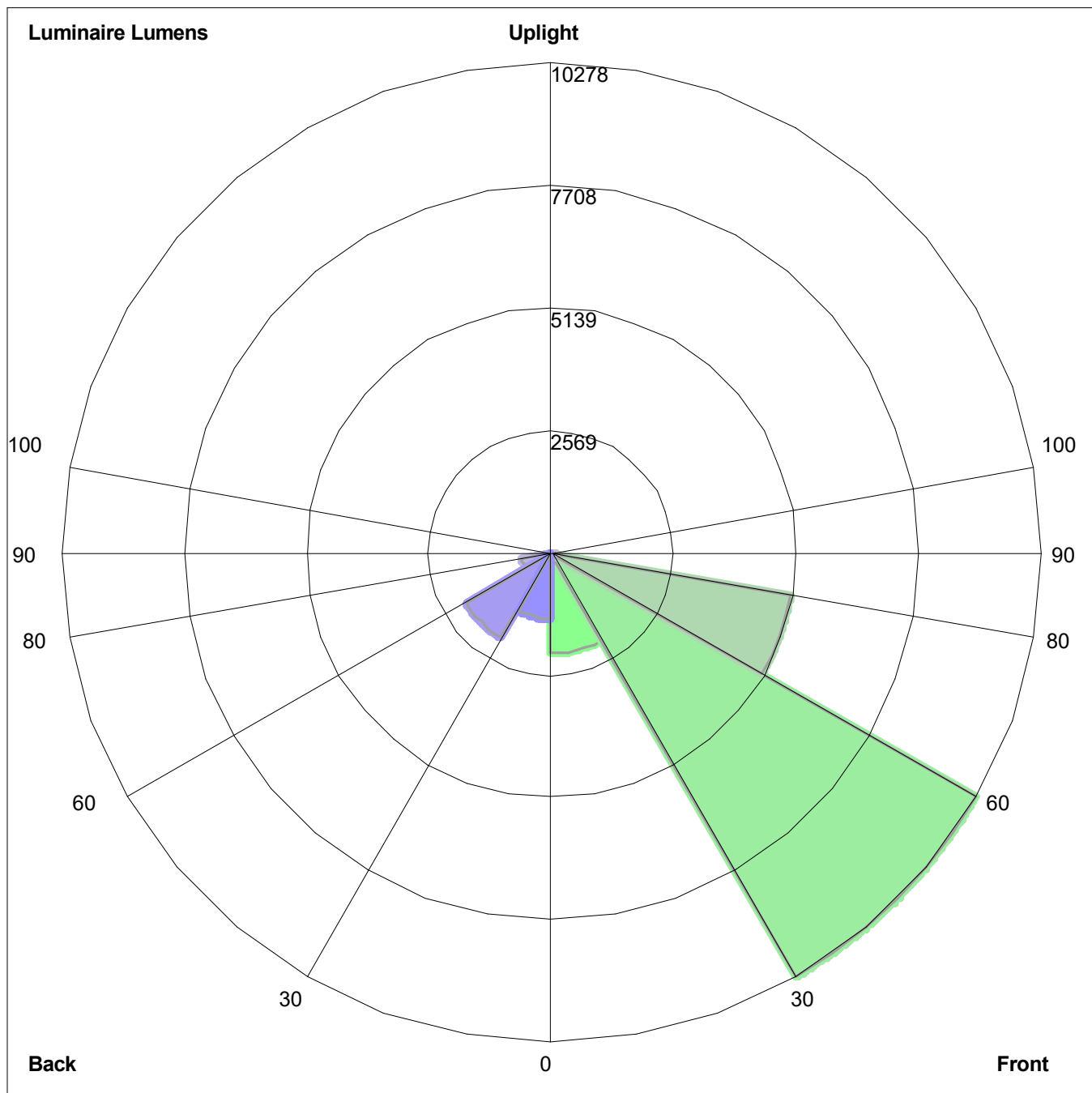


Maximum Candela = 19729 Located At Horizontal Angle = 75, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (75 - 255) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low= 2109.0, Medium=10277.8, High=5096.4, Very High=88.1
Back: Low=1388.1, Medium=2068.7, High=621.2, Very High=7.2
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G3