



IES ROAD REPORT
PHOTOMETRIC FILENAME : ENM4-SAX-2-LED-25L-30-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-30-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	19480
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	86
Total Luminaire Watts	227.3
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	17746
Maximum Candela Angle	75H 65V
Maximum Candela (<90 Degrees Vertical)	17746
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	1084 (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)	1897.0	N.A.	9.7
FM - Front-Medium (30-60)	9244.8	N.A.	47.5
FH - Front-High (60-80)	4584.2	N.A.	23.5
FVH - Front-Very High (80-90)	79.2	N.A.	0.4
BL - Back-Low (0-30)	1248.6	N.A.	6.4
BM - Back-Medium (30-60)	1860.8	N.A.	9.6
BH - Back-High (60-80)	558.8	N.A.	2.9
BVH - Back-Very High (80-90)	6.5	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	19479.9	N.A.	100.0
BUG Rating	B3-U0-G2		

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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	3586	3586	3586	3586	3586	3586	3586	3586	3586	3586
2.5	3654	3652	3667	3662	3651	3647	3637	3612	3615	3578
5.0	3758	3727	3735	3743	3737	3723	3719	3690	3666	3629
7.5	3812	3803	3817	3817	3825	3812	3810	3775	3762	3715
10.0	3870	3862	3889	3897	3906	3918	3916	3892	3853	3826
12.5	3960	3947	3963	3974	4017	4027	4032	4024	3989	3962
15.0	4016	4006	4040	4075	4125	4155	4173	4163	4133	4125
17.5	4072	4089	4131	4166	4233	4308	4346	4344	4333	4319
20.0	4175	4205	4232	4300	4366	4462	4508	4563	4559	4515
22.5	4341	4357	4408	4468	4551	4623	4727	4805	4788	4764
25.0	4551	4567	4613	4666	4736	4831	4958	5054	5072	5051
27.5	4777	4790	4828	4921	5011	5098	5182	5338	5373	5349
30.0	5080	5097	5153	5208	5328	5415	5517	5643	5682	5685
32.5	5435	5448	5491	5593	5682	5796	5858	5962	6039	6062
35.0	5804	5801	5886	6002	6146	6230	6252	6312	6397	6431
37.5	6197	6201	6272	6424	6602	6722	6696	6722	6807	6874
40.0	6592	6605	6690	6883	7125	7271	7258	7213	7290	7366
42.5	6913	6960	7079	7344	7675	7890	7851	7750	7791	8011
45.0	7149	7191	7386	7692	8137	8517	8540	8365	8441	8588
47.5	7236	7214	7459	7908	8488	9134	9391	9136	9171	9308
50.0	6986	6954	7238	7812	8730	9675	10253	10159	10133	10252
52.5	6373	6388	6682	7315	8501	10073	11237	11319	11299	11433
55.0	5437	5439	5781	6490	7847	10057	12168	12549	12590	12759
57.5	4218	4247	4621	5289	6691	9505	12811	13922	14156	14334
60.0	2852	2884	3225	3891	5250	8301	12941	15381	15817	15953
62.5	1569	1622	1881	2403	3536	6581	12407	16173	17077	17259
65.0	841	848	997	1321	2099	4736	10931	15756	17746	17590
67.5	515	529	575	790	1249	2982	8414	13806	16649	16280
70.0	335	335	363	487	801	1703	5670	10518	12754	12105
72.5	222	228	241	315	545	1088	3320	6681	7541	6810
75.0	136	138	144	189	351	796	1621	3987	3723	3068
77.5	73	76	78	100	201	551	852	2188	1893	1503
80.0	63	64	61	65	95	309	502	925	1084	881
82.5	66	66	63	65	75	125	234	332	631	550
85.0	52	53	49	52	64	97	110	155	280	262
87.5	34	33	31	31	38	58	69	100	100	97
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	3586	3586	3586	3586	3586	3586	3586	3586	3586	3586
2.5	3616	3597	3600	3581	3564	3562	3548	3541	3543	3553
5.0	3664	3638	3613	3573	3557	3529	3509	3490	3460	3455
7.5	3723	3683	3685	3602	3563	3497	3459	3427	3402	3384
10.0	3820	3790	3737	3635	3573	3492	3435	3376	3329	3301
12.5	3946	3889	3846	3694	3594	3491	3378	3298	3262	3224
15.0	4090	4029	3949	3777	3632	3454	3326	3257	3203	3182
17.5	4262	4174	4108	3844	3638	3440	3285	3191	3108	3012
20.0	4477	4374	4265	3960	3663	3412	3233	3044	2689	2376
22.5	4705	4600	4462	4076	3677	3397	3102	2502	1981	1589
25.0	4962	4815	4641	4187	3710	3319	2604	1840	1222	854
27.5	5258	5106	4898	4301	3719	3091	1997	1114	728	591

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CANDELA TABULATION - (Cont.)

30.0	5588	5398	5133	4389	3737	2609	1348	712	560	507
32.5	5942	5731	5411	4498	3629	2050	840	568	495	460
35.0	6320	6080	5672	4592	3330	1422	631	503	454	423
37.5	6753	6455	6006	4697	2876	908	539	456	415	378
40.0	7206	6892	6305	4764	2305	663	483	415	367	321
42.5	7765	7365	6690	4737	1600	563	434	371	305	251
45.0	8351	7861	7079	4579	988	500	389	309	233	182
47.5	9045	8480	7460	4193	712	450	338	241	166	127
50.0	9931	9177	7936	3588	586	390	275	175	115	87
52.5	10955	10045	8424	2768	503	331	207	117	77	58
55.0	12178	10947	8846	1830	447	270	148	77	49	38
57.5	13508	11863	9139	1181	407	211	100	49	30	22
60.0	14730	12381	9150	900	380	160	63	28	13	7
62.5	15556	12451	8537	720	351	119	36	11	6	4
65.0	15383	11708	7155	577	298	86	18	6	4	3
67.5	13155	9386	5058	440	210	54	7	4	3	2
70.0	8821	5869	2784	314	134	31	4	3	3	2
72.5	4077	2857	1298	226	76	12	3	3	2	1
75.0	1568	1255	614	142	41	7	3	2	1	0
77.5	809	722	346	82	19	4	2	1	1	0
80.0	516	450	217	35	7	2	0	1	1	0
82.5	340	241	122	13	4	1	1	1	2	1
85.0	192	121	49	4	1	1	1	2	2	1
87.5	66	31	3	0	0	0	1	2	2	1
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles **Horizontal Angles**

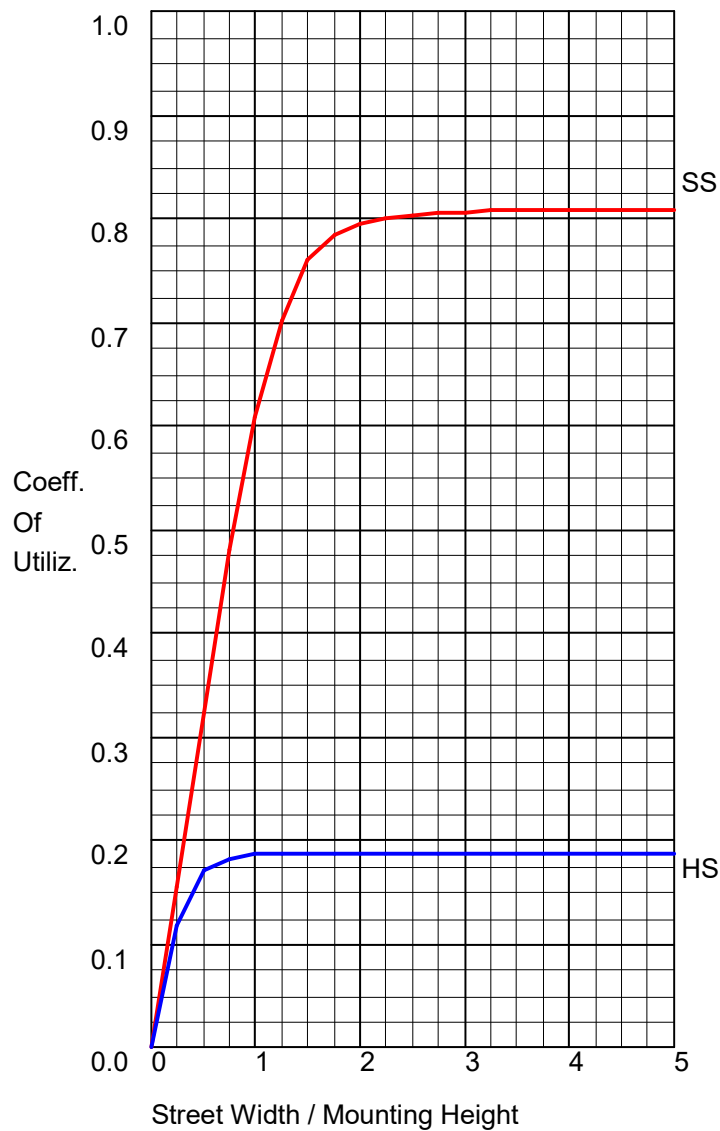
	<u>175.0</u>	<u>180.0</u>
0.0	3586	3586
2.5	3527	3526
5.0	3459	3445
7.5	3370	3352
10.0	3280	3269
12.5	3214	3214
15.0	3146	3135
17.5	2902	2871
20.0	2181	2157
22.5	1353	1328
25.0	745	737
27.5	552	545
30.0	485	483
32.5	443	437
35.0	401	400
37.5	355	352
40.0	299	295
42.5	227	220
45.0	162	157
47.5	110	109
50.0	75	73
52.5	49	49
55.0	31	31
57.5	15	14
60.0	4	4
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

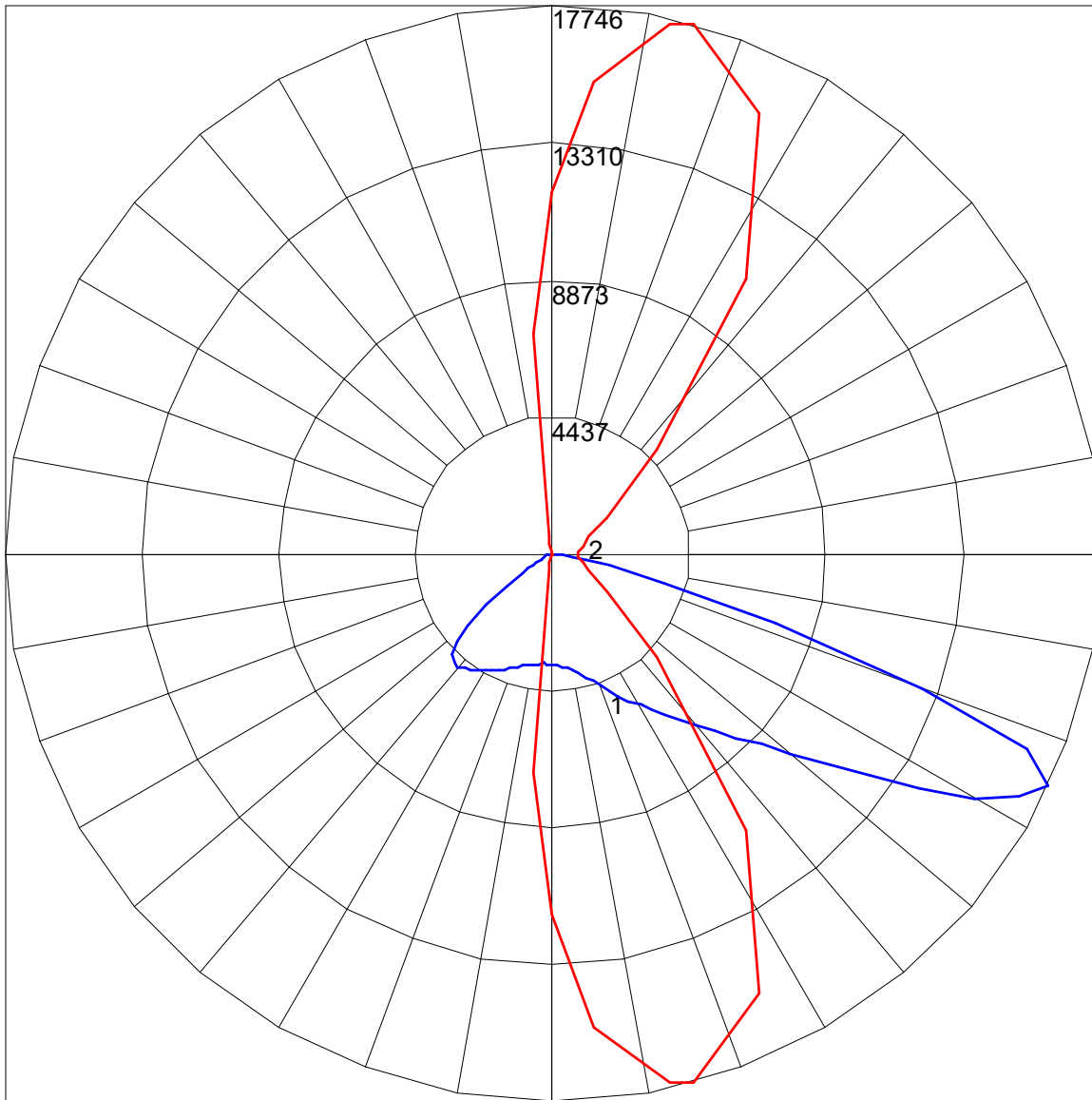
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

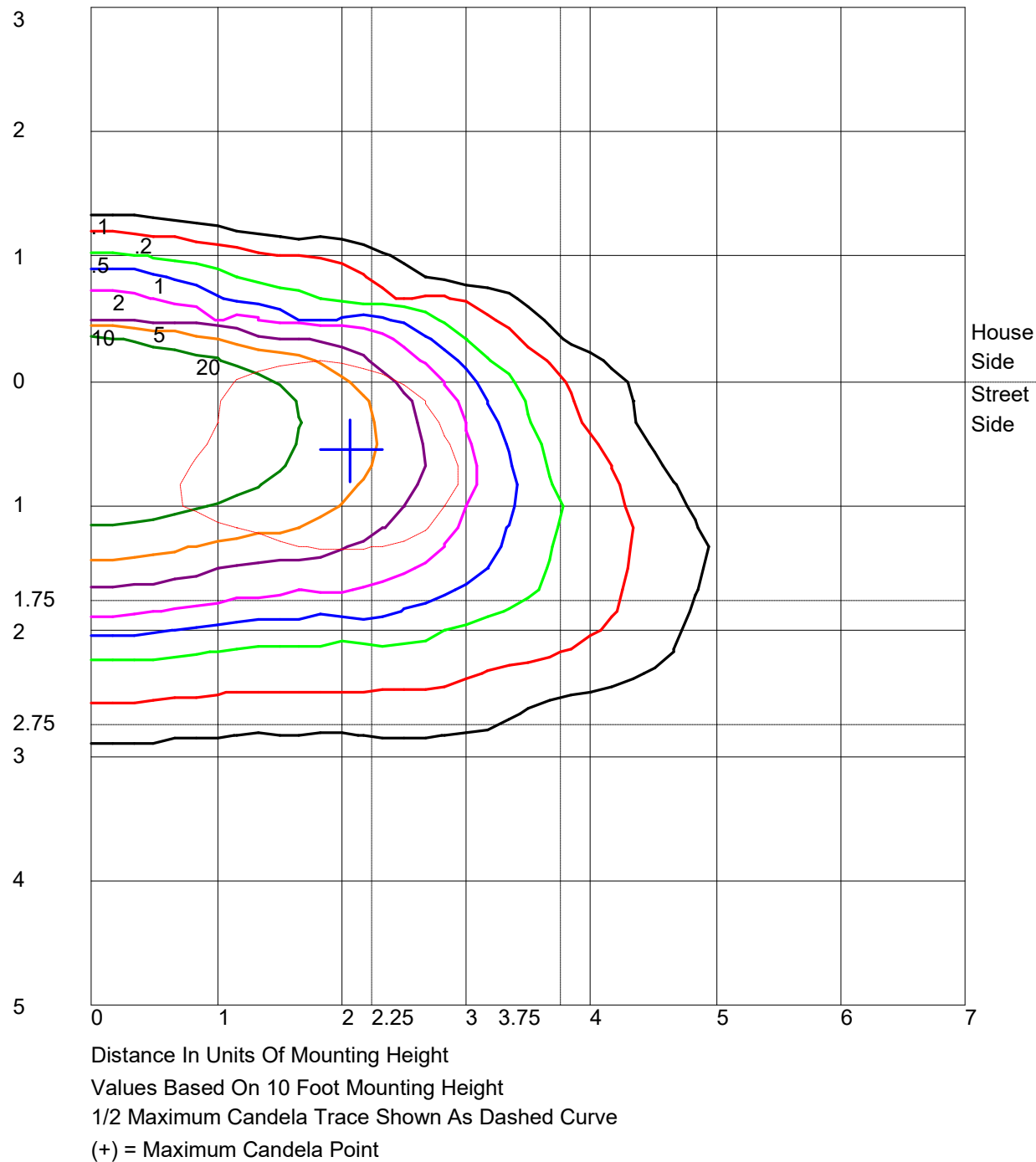
	Lumens	Percent Of Luminaire
Downward Street Side	15805.3	81.1
Downward House Side	3674.7	18.9
Downward Total	19480.1	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	19480.1	100.0

POLAR GRAPH

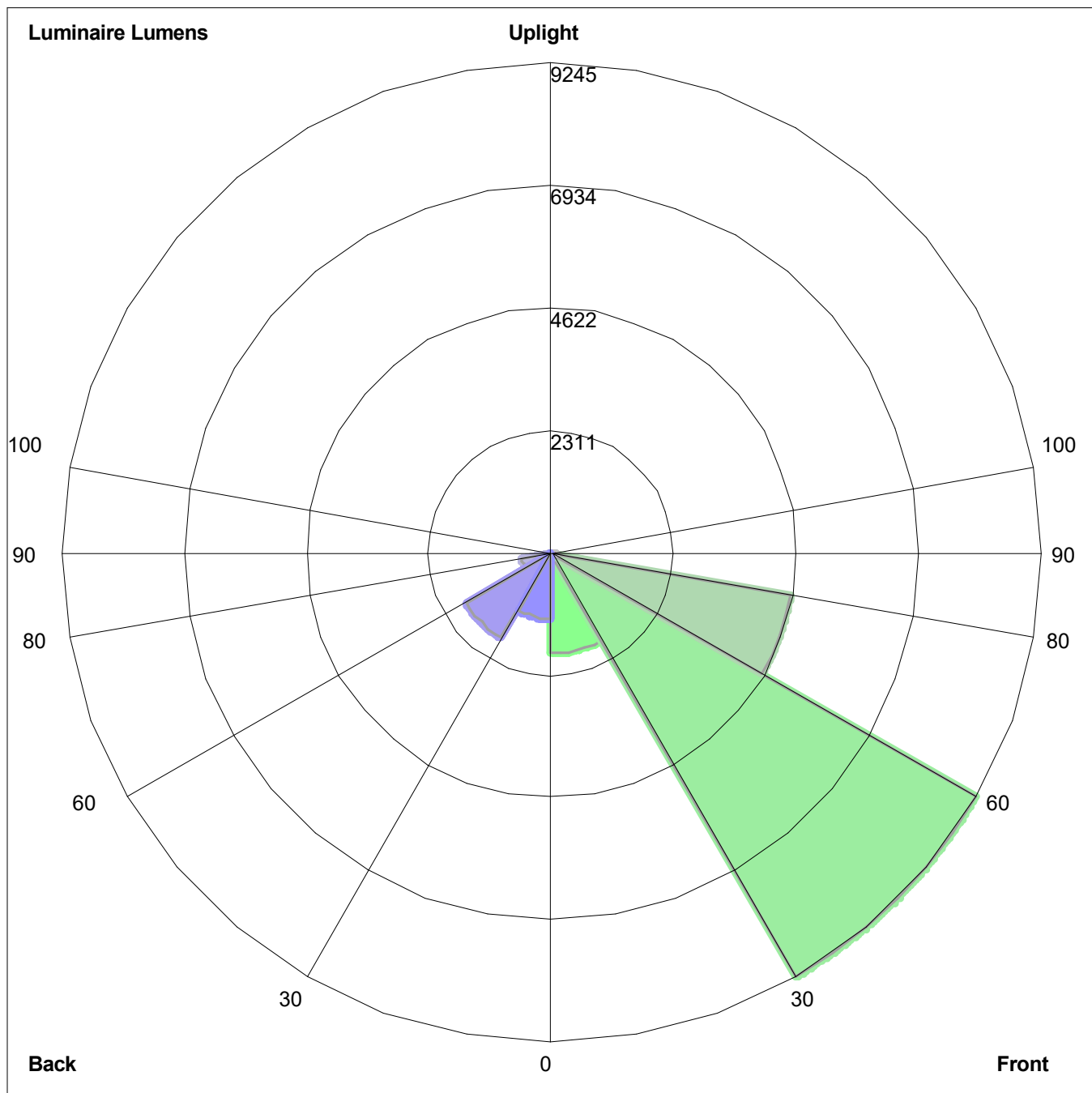


Maximum Candela = 17746 Located At Horizontal Angle = 75, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (75 - 255) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low= 1897.0, Medium=9244.8, High=4584.2, Very High=79.2
Back: Low=1248.6, Medium=1860.8, High=558.8, Very High=6.5
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G2