



IES ROAD REPORT
PHOTOMETRIC FILENAME : XGBM-FTA-LED-LW-CW.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-5154
[TESTLAB]LSI INDUSTRIES
[ISSUE DATE]02/13/14
[TEST DATE]02/13/14
[MANUFACTURER]LSI INDUSTRIES
[LUMEN CATEGORY]XGBM-FTA-LED-LW-CW
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	16560
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	140.4
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	12157
Maximum Candela Angle	22.5H 60V
Maximum Candela (<90 Degrees Vertical)	12157
Maximum Candela Angle (<90 Degrees Vertical)	22.5H 60V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1509 (9.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1837.5	N.A.	11.1
FM - Front-Medium (30-60)	6821.8	N.A.	41.2
FH - Front-High (60-80)	3902.0	N.A.	23.6
FVH - Front-Very High (80-90)	57.0	N.A.	0.3
BL - Back-Low (0-30)	1644.1	N.A.	9.9
BM - Back-Medium (30-60)	1867.6	N.A.	11.3
BH - Back-High (60-80)	414.1	N.A.	2.5
BVH - Back-Very High (80-90)	16.1	N.A.	0.1
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	16560.2	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>22.5</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>
0.0	4847	4847	4847	4847	4847	4847	4847	4847	4847	4847
2.5	4716	4752	4755	4755	4771	4779	4772	4781	4778	4794
5.0	4373	4410	4413	4443	4466	4508	4543	4614	4675	4758
7.5	4155	4177	4192	4212	4224	4265	4325	4429	4545	4696
10.0	4048	4071	4084	4103	4117	4153	4199	4285	4443	4632
12.5	4005	4027	4034	4044	4058	4082	4126	4236	4376	4634
15.0	3986	4010	4013	4017	4029	4046	4077	4221	4391	4680
17.5	3979	4003	4008	4015	4022	4029	4056	4158	4383	4662
20.0	3966	3992	3993	3990	3999	4018	4055	4081	4323	4665
22.5	3953	3980	3978	3980	3985	4000	4051	4087	4355	4824
25.0	3951	3979	3980	3972	3980	4004	4042	4199	4553	5148
27.5	3936	3968	3986	3982	3990	4018	4094	4391	4728	5354
30.0	3926	3955	3971	3980	3990	4046	4282	4636	4836	5328
32.5	4033	4063	4044	4006	4000	4106	4488	4772	4835	5181
35.0	4256	4279	4231	4156	4132	4252	4684	4783	4760	5007
37.5	4582	4600	4508	4412	4389	4565	4763	4792	4692	4810
40.0	5011	5045	4906	4780	4812	4956	4845	4780	4597	4615
42.5	5618	5650	5443	5320	5378	5375	5025	4702	4507	4462
45.0	6525	6554	6285	6186	6246	5734	5197	4637	4421	4327
47.5	7503	7474	7094	7318	7425	6296	5431	4678	4338	4204
50.0	9024	9013	8546	8687	8529	7201	5696	4747	4250	4118
52.5	9367	9433	9526	10552	10321	8076	6180	4875	4186	3945
55.0	10115	10140	10020	10885	10795	9607	7006	5148	4026	3767
57.5	10562	10628	11051	11861	11567	10305	8098	5510	4157	3778
60.0	10050	10185	11384	12157	12080	11039	9361	6047	4354	3647
62.5	8069	8120	9928	11138	11396	11531	9396	6767	4225	3240
65.0	4813	4849	6259	8046	8831	10686	9768	7180	4047	3050
67.5	2606	2532	3262	4264	4720	7919	8942	6945	4187	2804
70.0	898	959	1385	1952	2405	4726	6453	6739	4586	2479
72.5	262	278	376	627	1042	2500	3483	5355	4378	2009
75.0	118	124	151	409	749	1129	1393	2674	3659	1908
77.5	76	79	95	352	520	590	424	966	2262	1863
80.0	48	50	68	190	221	280	176	240	709	1509
82.5	28	29	44	66	58	103	73	95	157	592
85.0	10	12	16	22	21	31	34	37	54	76
87.5	2	1	2	4	5	6	8	8	11	20
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	4847	4847	4847	4847	4847	4847	4847	4847	4847	4847
2.5	4816	4808	4823	4840	4868	4901	4939	4940	4961	4979
5.0	4811	4815	4849	4911	4980	5059	5133	5172	5204	5233
7.5	4799	4833	4886	4993	5113	5218	5297	5295	5278	5274
10.0	4822	4878	4948	5102	5236	5303	5293	5205	5130	5092
12.5	4898	4971	5059	5269	5368	5285	5160	5034	4937	4857
15.0	4983	5063	5167	5443	5463	5226	5021	4814	4550	4317
17.5	5025	5123	5250	5588	5496	5164	4821	4312	3800	3390
20.0	5068	5156	5283	5626	5418	5055	4392	3521	2752	2245
22.5	5264	5323	5437	5664	5348	4781	3726	2539	1706	1240
25.0	5646	5665	5746	5835	5372	4390	2867	1625	910	660
27.5	5874	5917	5984	6015	5387	3798	2025	958	575	498

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CANDELA TABULATION - (Cont.)

30.0	5846	5920	5981	5995	5236	3131	1302	676	502	452
32.5	5693	5841	5958	5814	4784	2422	936	601	481	438
35.0	5556	5780	5978	5663	4224	1839	899	601	478	420
37.5	5404	5654	5927	5472	3496	1637	999	628	482	394
40.0	5219	5414	5671	5249	2696	1600	1170	642	483	371
42.5	5049	5285	5543	4914	1920	1564	1232	623	460	354
45.0	4885	5203	5519	4384	1338	1388	1082	639	431	343
47.5	4702	5010	5383	3875	993	1233	856	713	435	332
50.0	4554	4803	5116	3306	843	1018	728	729	423	273
52.5	4218	4399	4696	2657	789	858	666	710	407	168
55.0	4087	4324	4539	2052	801	720	648	584	313	67
57.5	3975	4218	4437	1664	831	608	570	367	236	51
60.0	3614	3825	4102	1372	840	543	341	184	169	60
62.5	3147	3358	3550	1166	763	473	138	97	102	66
65.0	2880	3039	3069	976	665	347	89	74	105	65
67.5	2598	2750	2571	752	551	238	93	80	83	55
70.0	2261	2271	2048	574	395	196	114	94	61	46
72.5	1812	1710	1390	395	161	179	100	79	46	37
75.0	1298	1265	953	298	97	137	91	62	47	36
77.5	824	817	530	198	96	86	58	59	49	43
80.0	576	555	246	67	76	66	58	54	46	41
82.5	249	227	104	30	42	49	47	44	37	34
85.0	109	65	28	11	20	29	22	21	17	14
87.5	24	18	9	7	9	8	6	4	2	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

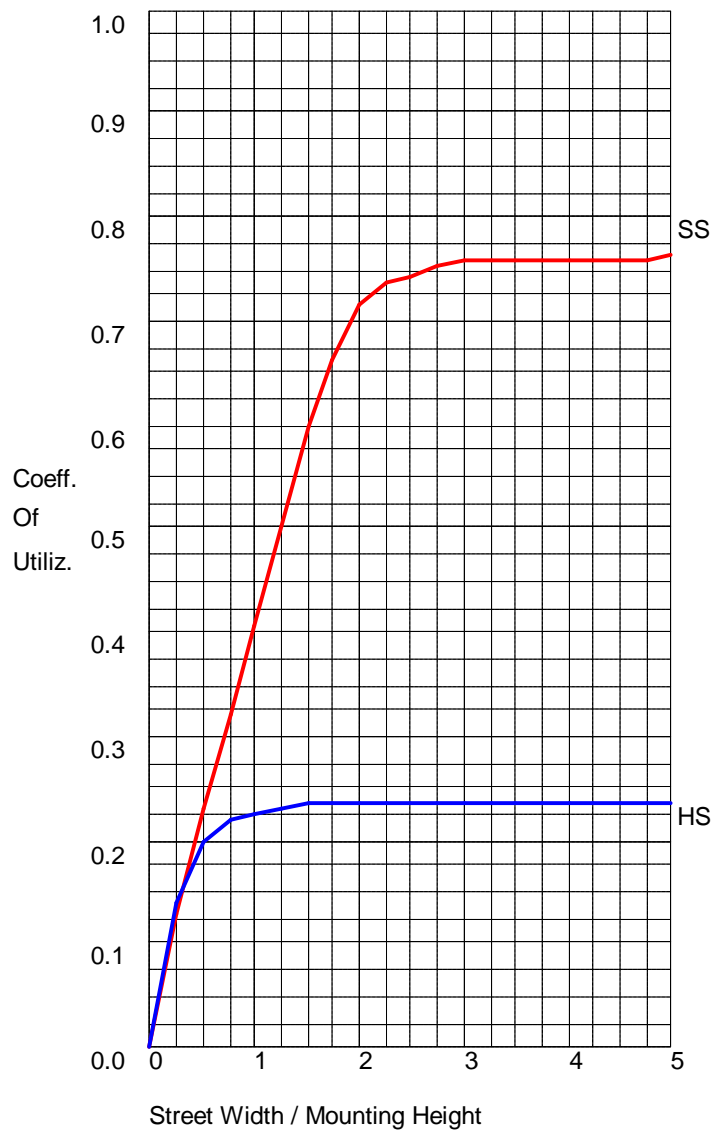
	<u>175.0</u>	<u>180.0</u>
0.0	4847	4847
2.5	4977	4983
5.0	5236	5246
7.5	5259	5268
10.0	5062	5065
12.5	4800	4809
15.0	4180	4178
17.5	3161	3141
20.0	1995	1968
22.5	1034	1011
25.0	576	568
27.5	472	468
30.0	437	434
32.5	421	416
35.0	404	392
37.5	378	362
40.0	360	343
42.5	338	325
45.0	338	318
47.5	314	294
50.0	245	222
52.5	136	105
55.0	61	43
57.5	41	28
60.0	53	35
62.5	48	43
65.0	50	47

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CANDELA TABULATION - (Cont.)

67.5	45	43
70.0	42	38
72.5	33	30
75.0	36	36
77.5	42	41
80.0	40	40
82.5	33	31
85.0	13	12
87.5	0	0
90.0	0	0

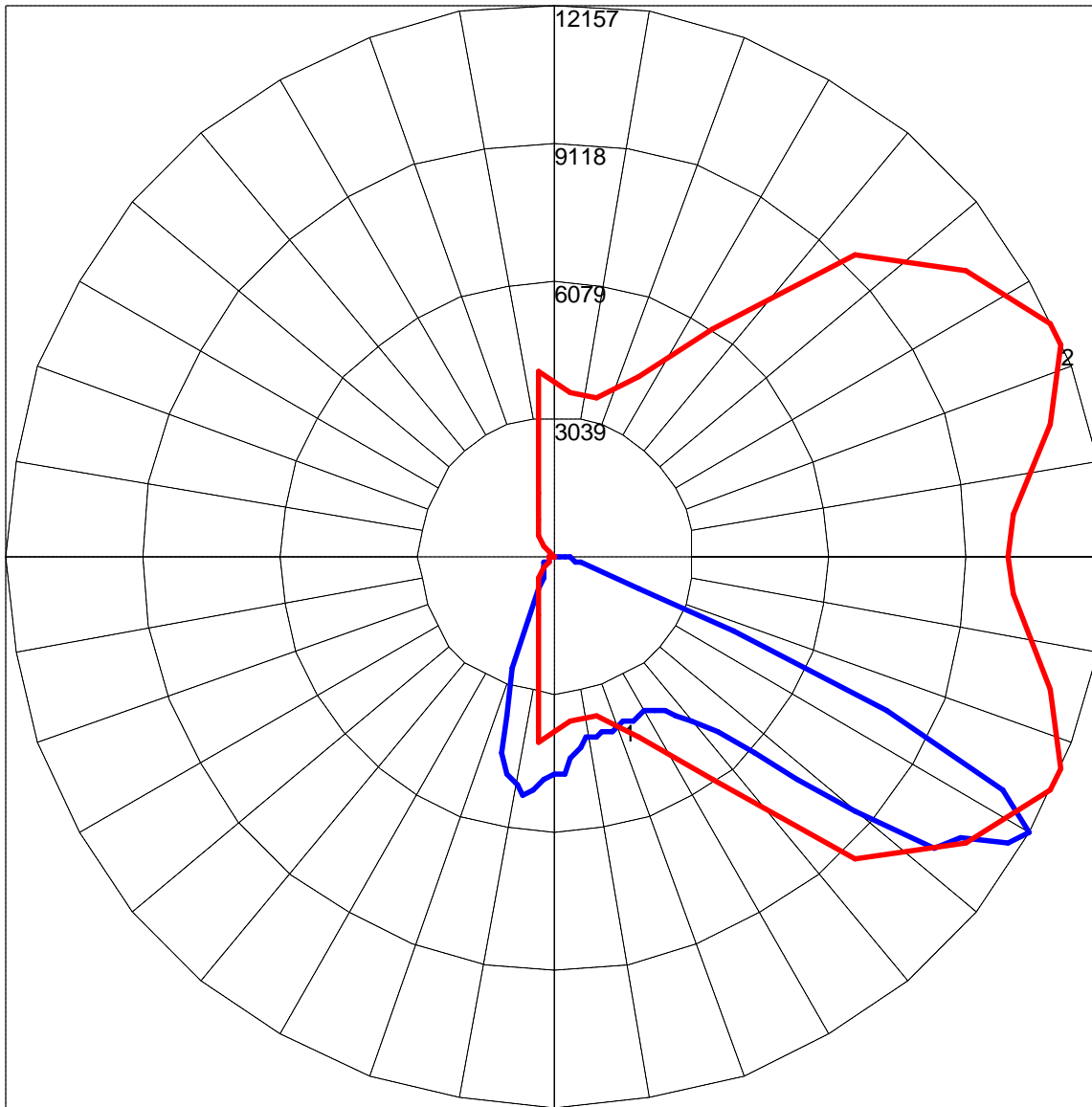
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

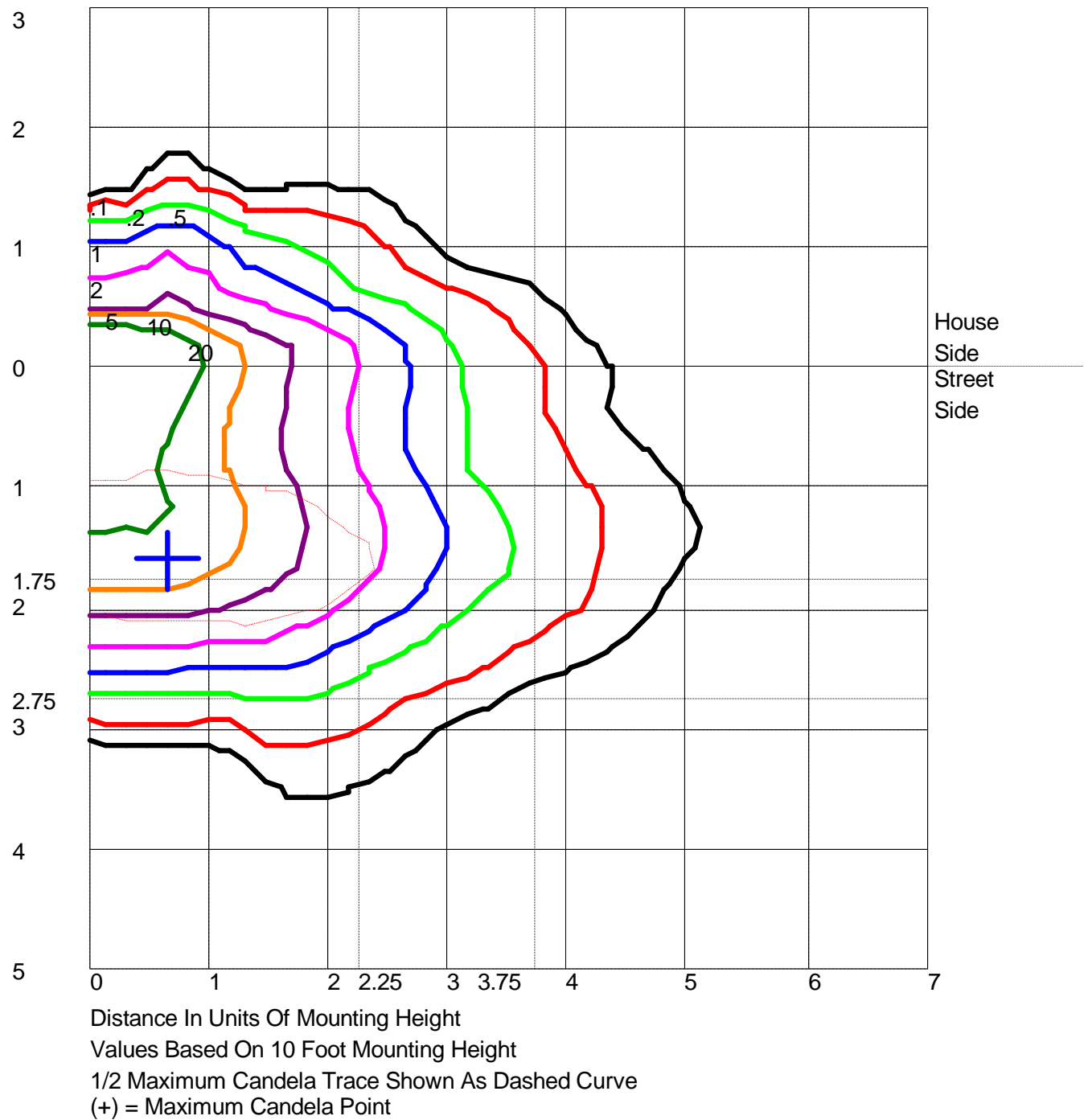
	Lumens	Percent Of Luminaire
Downward Street Side	12618.3	76.2
Downward House Side	3941.9	23.8
Downward Total	16560.2	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	16560.2	100.0

POLAR GRAPH

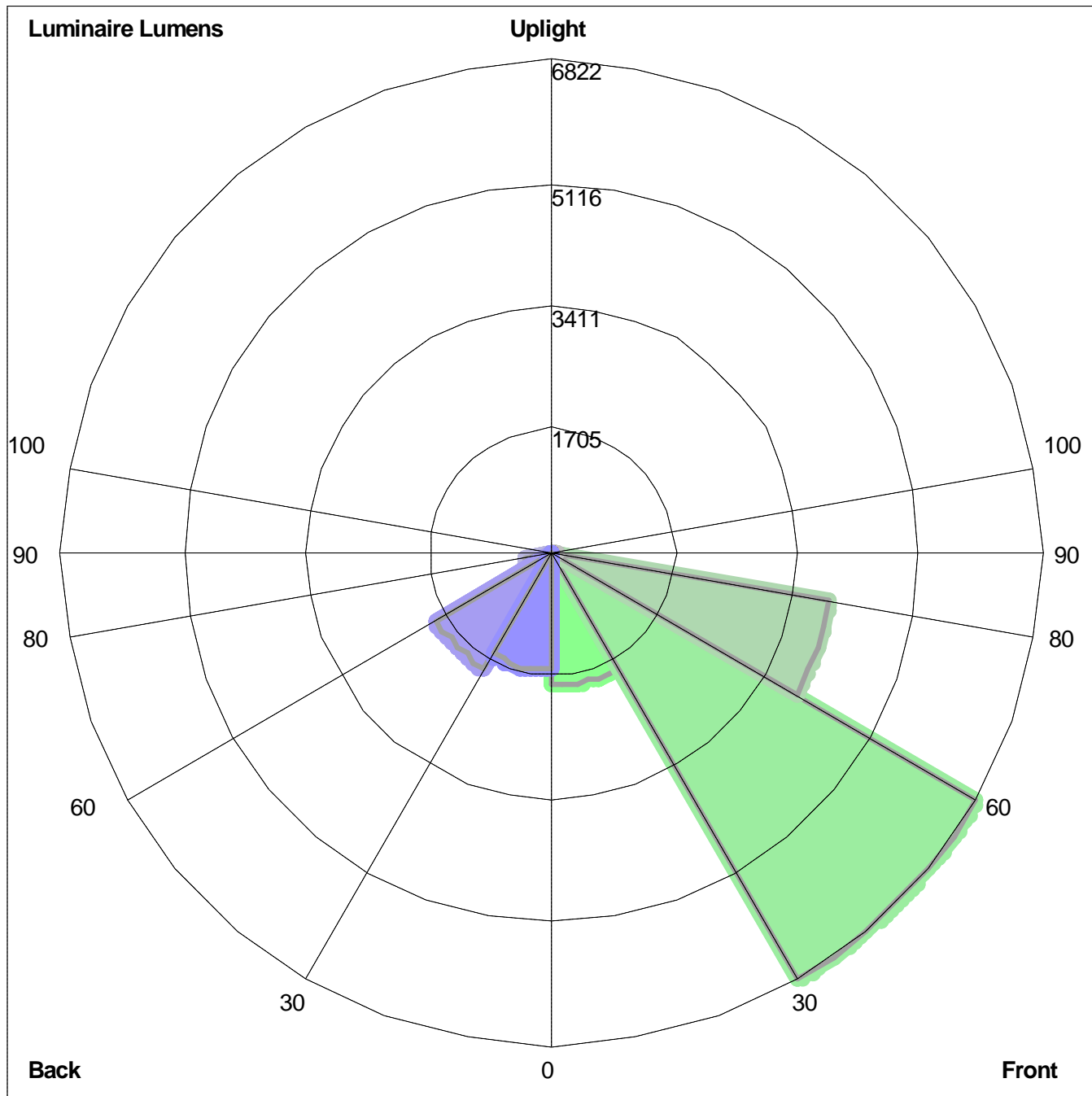


Maximum Candela = 12157 Located At Horizontal Angle = 22.5, Vertical Angle = 60
1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1837.5, Medium=6821.8, High= 3902.0, Very High=57.0
Back: Low=1644.1, Medium=1867.6, High=414.1, Very High=16.1
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G2