



IES ROAD REPORT
PHOTOMETRIC FILENAME : XGBM-FT-LED-LW-NW.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-5309
[TESTLAB]LSI INDUSTRIES
[ISSUE DATE]03/18/14
[TEST DATE]03/18/14
[MANUFACTURER]LSI INDUSTRIES
[LUMEN CATEGORY]XGBM-FT-LED-LW-NW
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08

CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	12217
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	90
Total Luminaire Watts	136.4
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	6931
Maximum Candela Angle	30H 50V
Maximum Candela (<90 Degrees Vertical)	6931
Maximum Candela Angle (<90 Degrees Vertical)	30H 50V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	2446 (20.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1559.5	N.A.	12.8
FM - Front-Medium (30-60)	5409.7	N.A.	44.3
FH - Front-High (60-80)	3979.3	N.A.	32.6
FVH - Front-Very High (80-90)	279.9	N.A.	2.3
BL - Back-Low (0-30)	292.7	N.A.	2.4
BM - Back-Medium (30-60)	502.4	N.A.	4.1
BH - Back-High (60-80)	181.5	N.A.	1.5
BVH - Back-Very High (80-90)	11.7	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	12216.7	N.A.	100.0
BUG Rating	B1-U0-G3		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>5</u>	<u>15</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>45</u>	<u>55</u>	<u>65</u>	<u>75</u>
0.0	898	898	898	898	898	898	898	898	898	898
2.5	987	1003	992	987	978	966	949	934	913	899
5.0	1365	1415	1361	1316	1291	1214	1129	1059	1001	951
7.5	2315	2291	2181	2063	1998	1838	1631	1361	1148	1026
10.0	3339	3293	3161	2974	2857	2647	2300	1850	1424	1122
12.5	4267	4217	4090	3869	3748	3538	3060	2445	1836	1286
15.0	4923	4900	4847	4661	4557	4344	3846	3132	2325	1563
17.5	5112	5101	5119	5109	5089	4987	4566	3806	2872	1877
20.0	5084	5095	5130	5181	5232	5246	5114	4438	3451	2222
22.5	4941	4943	5035	5133	5191	5243	5405	5100	4038	2586
25.0	4577	4582	4723	4915	5064	5227	5505	5563	4605	2939
27.5	4176	4176	4301	4572	4793	5073	5591	5832	5139	3264
30.0	3725	3743	3854	4191	4497	4842	5572	5985	5575	3609
32.5	3601	3619	3650	3828	4123	4522	5339	6014	5853	3926
35.0	3775	3760	3707	3802	3967	4205	4939	5849	5865	4116
37.5	4236	4201	4044	4021	4107	4162	4470	5402	5665	4334
40.0	4948	4912	4659	4546	4478	4352	4200	4842	5439	4601
42.5	5571	5560	5483	5398	5144	4751	4160	4347	5198	4829
45.0	5958	5954	5987	6247	6034	5514	4344	4004	4765	4867
47.5	5824	5854	6102	6865	6756	6347	4733	3855	4342	4838
50.0	6021	6015	6081	6676	6931	6857	5345	3895	3941	4739
52.5	5944	5955	6479	6788	6635	6652	5828	4086	3551	4499
55.0	5357	5367	5923	6819	6838	6502	5892	4407	3302	4167
57.5	5471	5470	5896	6147	6287	6492	5617	4740	3175	3678
60.0	5255	5284	6034	6249	6000	5784	5543	4824	3194	3245
62.5	5307	5308	6024	6060	6021	5801	5224	4602	3417	2857
65.0	5660	5654	6388	6108	5872	5578	4909	4484	3535	2405
67.5	5411	5476	6388	6424	6089	5648	4770	4109	3462	2192
70.0	5308	5387	5980	5875	5917	5825	4601	3666	3411	2056
72.5	4913	4951	5592	5852	5783	5369	4527	3440	3070	2032
75.0	3599	3575	3918	4814	5150	5067	4014	3309	2519	1839
77.5	2662	2713	2854	3597	3667	3624	3431	2787	2190	1680
80.0	1465	1535	1724	2426	2446	2327	2133	2248	1908	1310
82.5	586	622	691	811	885	886	1108	1195	1223	876
85.0	86	85	98	133	180	190	268	333	486	525
87.5	5	5	8	9	10	12	14	21	59	118
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	<u>85</u>	<u>90</u>	<u>95</u>	<u>105</u>	<u>115</u>	<u>125</u>	<u>135</u>	<u>145</u>	<u>155</u>	<u>165</u>
0.0	898	898	898	898	898	898	898	898	898	898
2.5	886	881	871	861	855	851	851	850	854	855
5.0	908	887	869	842	825	811	804	803	800	801
7.5	938	906	878	836	811	794	786	779	773	764
10.0	978	930	890	837	809	791	768	743	719	700
12.5	1046	972	917	849	818	778	733	699	674	659
15.0	1153	1049	974	889	828	753	702	676	632	603
17.5	1278	1141	1039	934	837	743	692	636	576	530
20.0	1374	1201	1080	957	833	742	670	582	519	473
22.5	1466	1241	1098	954	820	734	615	527	463	420
25.0	1506	1257	1118	961	812	701	563	465	410	381
27.5	1524	1232	1108	979	816	648	514	420	377	362

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CANDELA TABULATION - (Cont.)

30.0	1574	1219	1100	1000	825	604	481	395	362	362
32.5	1625	1200	1071	959	825	566	450	386	367	373
35.0	1682	1149	1023	900	779	535	433	397	381	382
37.5	1766	1110	969	833	716	511	425	412	388	346
40.0	1878	1123	946	780	627	498	437	429	331	241
42.5	1938	1139	964	736	536	487	453	392	236	196
45.0	2012	1143	986	708	481	523	436	285	201	177
47.5	2154	1174	989	697	440	534	340	230	178	157
50.0	2313	1212	1005	683	423	491	251	192	156	138
52.5	2450	1263	1035	656	426	395	207	161	135	117
55.0	2508	1281	1049	619	434	290	176	134	114	95
57.5	2494	1263	1046	581	439	236	154	111	95	79
60.0	2562	1246	1039	540	385	216	139	90	80	65
62.5	2552	1190	982	506	307	196	115	75	65	55
65.0	2358	1121	894	470	260	167	100	65	52	47
67.5	2188	1096	794	434	238	130	83	57	42	39
70.0	1942	980	687	369	207	104	73	45	32	30
72.5	1647	843	573	295	169	84	60	34	23	20
75.0	1261	693	467	228	130	68	45	24	16	12
77.5	1025	552	335	183	99	51	32	16	11	7
80.0	680	401	219	132	66	33	20	12	8	3
82.5	403	220	125	78	34	20	12	8	5	2
85.0	250	99	48	32	14	10	8	6	4	2
87.5	87	21	13	10	9	7	6	5	3	2
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

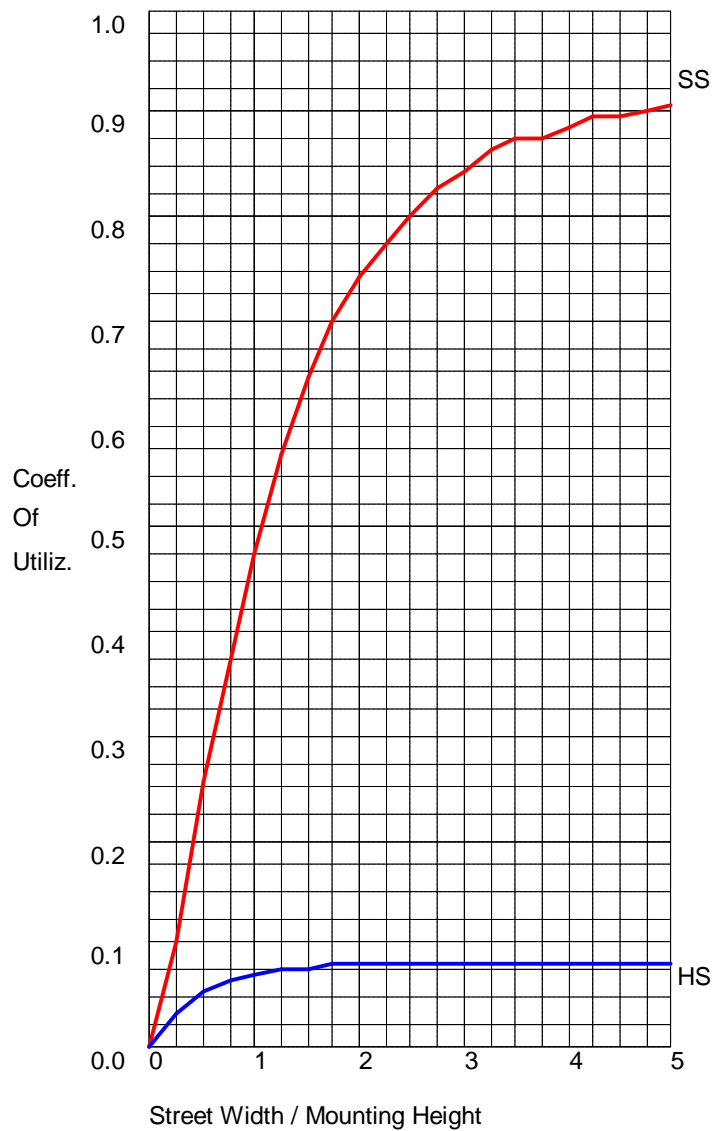
	175	180
0.0	898	898
2.5	848	853
5.0	795	797
7.5	757	759
10.0	690	693
12.5	652	652
15.0	591	590
17.5	517	515
20.0	449	446
22.5	397	392
25.0	364	361
27.5	348	349
30.0	354	354
32.5	363	363
35.0	366	364
37.5	302	296
40.0	202	198
42.5	170	167
45.0	147	144
47.5	128	122
50.0	112	105
52.5	94	88
55.0	79	72
57.5	70	62
60.0	61	53
62.5	55	46
65.0	47	39

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CANDELA TABULATION - (Cont.)

67.5	37	31
70.0	24	21
72.5	15	13
75.0	10	8
77.5	6	4
80.0	2	2
82.5	1	0
85.0	0	0
87.5	0	0
90.0	0	0

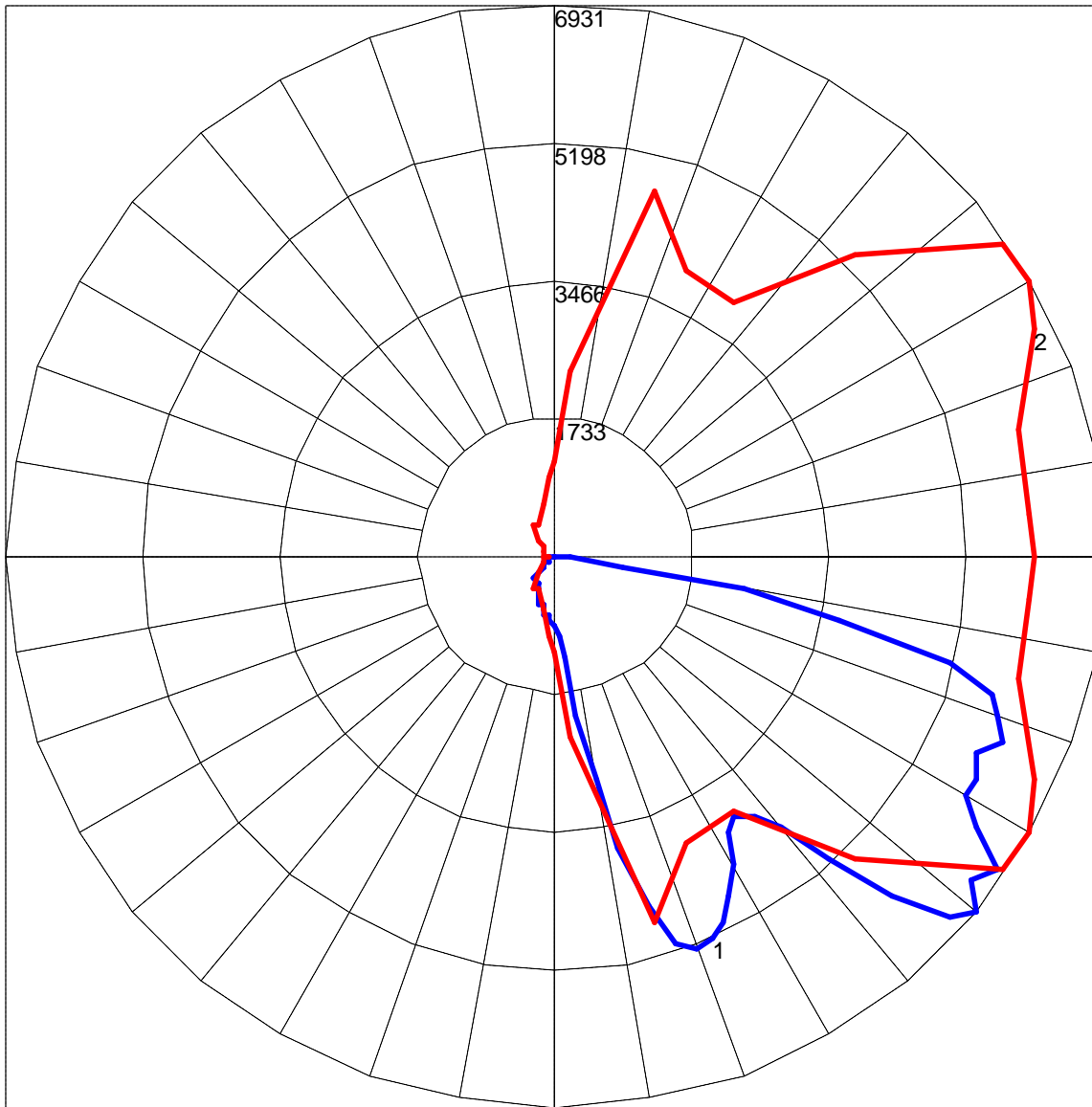
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

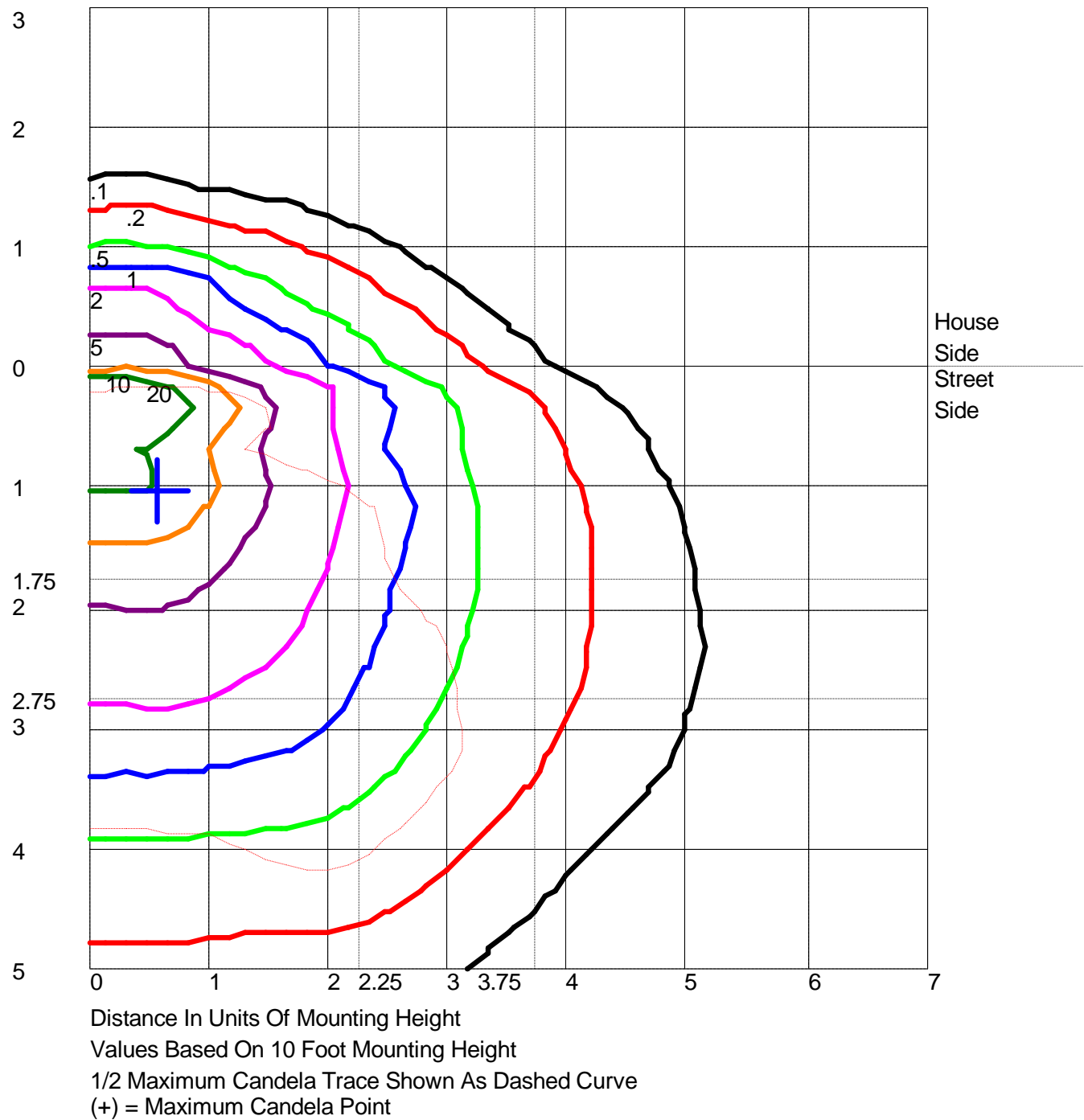
	Lumens	Percent Of Luminaire
Downward Street Side	11228.4	91.9
Downward House Side	988.3	8.1
Downward Total	12216.7	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	12216.7	100.0

POLAR GRAPH

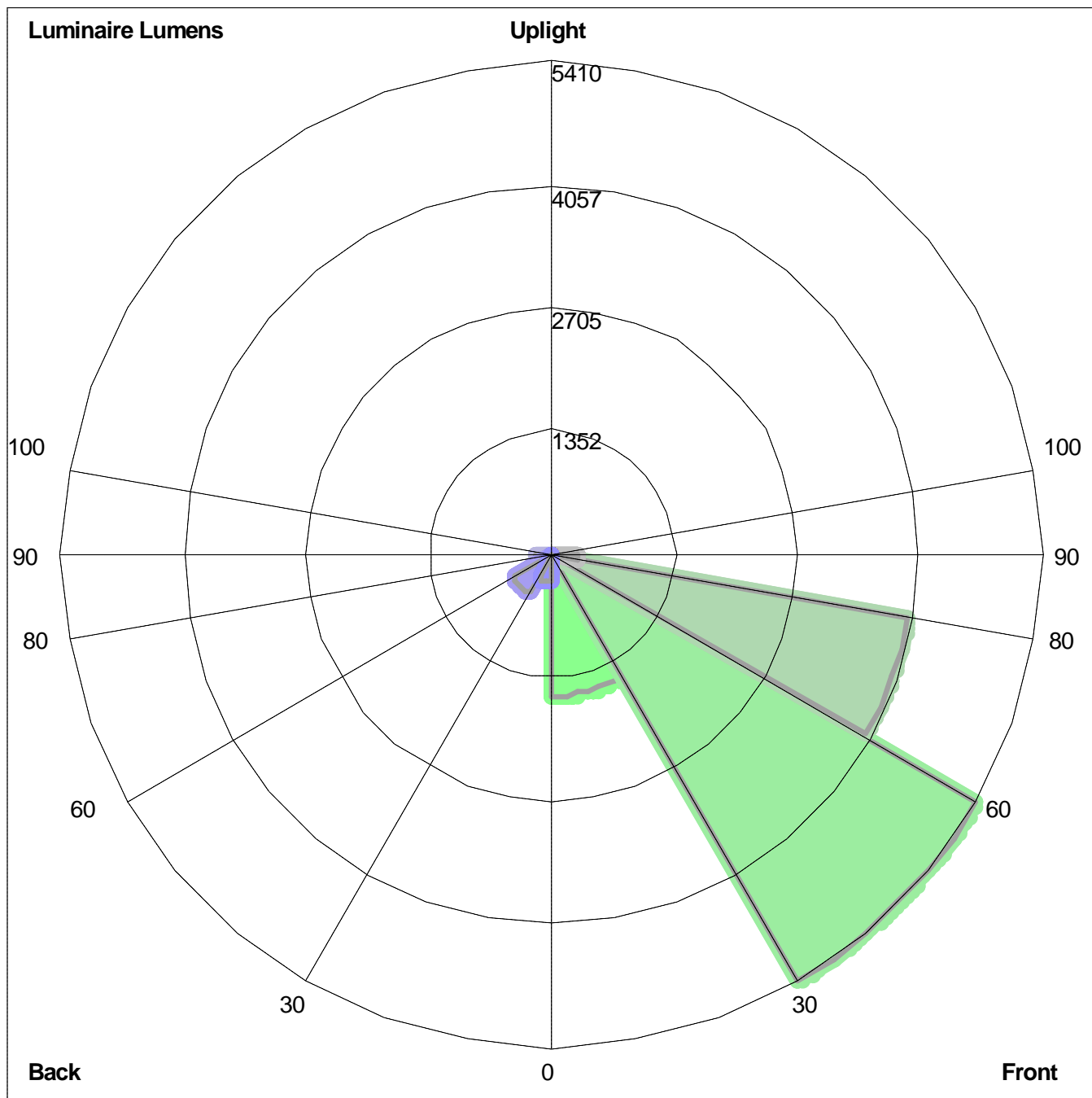


Maximum Candela = 6931 Located At Horizontal Angle = 30, Vertical Angle = 50
1 - Vertical Plane Through Horizontal Angles (30 - 210) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (50) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1559.5, Medium=5409.7, High=3979.3, Very High=279.9
Back: Low=292.7, Medium=502.4, High=181.5, Very High=11.7
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G3