



IES ROAD REPORT
PHOTOMETRIC FILENAME : XGBM-FT-LED-SS-CW.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-5011
[TESTLAB]LSI INDUSTRIES
[ISSUE DATE]01/10/14
[TEST DATE]01/10/14
[MANUFACTURER]LSI INDUSTRIES
[LUMEN CATEGORY]XGBM-FT-LED-SS-CW
[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	20700
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	187
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	12132
Maximum Candela Angle	25H 52.5V
Maximum Candela (<90 Degrees Vertical)	12132
Maximum Candela Angle (<90 Degrees Vertical)	25H 52.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	3693 (17.8% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2816.3	N.A.	13.6
FM - Front-Medium (30-60)	9287.6	N.A.	44.9
FH - Front-High (60-80)	6319.3	N.A.	30.5
FVH - Front-Very High (80-90)	476.9	N.A.	2.3
BL - Back-Low (0-30)	540.3	N.A.	2.6
BM - Back-Medium (30-60)	899.5	N.A.	4.3
BH - Back-High (60-80)	334.0	N.A.	1.6
BVH - Back-Very High (80-90)	26.0	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	20699.9	N.A.	100.0
BUG Rating	B2-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>27.5</u>	<u>35.0</u>	<u>45.0</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	2090	2090	2090	2090	2090	2090	2090	2090	2090	2090
2.5	2710	2671	2692	2636	2598	2559	2476	2364	2263	2172
5.0	4225	4182	4152	3986	3905	3748	3460	3120	2799	2487
7.5	5834	5800	5730	5491	5384	5131	4655	4066	3459	2861
10.0	7002	7064	6948	6742	6650	6380	5832	5089	4210	3265
12.5	7581	7644	7584	7487	7424	7250	6837	6074	4999	3744
15.0	7925	7994	7958	7889	7859	7756	7507	6919	5806	4362
17.5	8038	8097	8127	8172	8188	8129	7933	7485	6532	5011
20.0	8059	8132	8158	8226	8244	8269	8280	7890	7222	5641
22.5	7835	7916	8092	8264	8248	8261	8470	8318	7796	6226
25.0	7186	7266	7542	7912	8002	8344	8577	8648	8220	6723
27.5	6524	6597	6872	7196	7387	8061	8813	8814	8637	7196
30.0	6021	6073	6194	6595	6758	7450	8587	8990	8927	7570
32.5	6093	6143	6150	6217	6300	6885	7964	9094	9001	7769
35.0	6487	6564	6460	6437	6452	6676	7406	8754	8877	7881
37.5	7480	7466	7142	6922	6911	6949	6950	8120	8705	8025
40.0	8966	8971	8541	7929	7788	7350	6848	7468	8670	8160
42.5	9533	9532	9395	9682	9434	8166	7019	6833	8366	8116
45.0	10510	10564	10550	10585	10518	9858	7447	6530	7715	7977
47.5	10397	10419	10506	11875	11872	10800	8339	6495	6970	7840
50.0	10794	10859	11121	11588	11554	11804	9589	6642	6243	7544
52.5	10063	10168	10833	12132	12051	11283	9994	7137	5850	7174
55.0	9303	9379	10118	11267	11328	11628	10153	8038	5695	6605
57.5	9187	9221	9755	10257	10318	10627	9767	8427	5496	5892
60.0	8375	8459	9639	10200	10014	9693	9541	8608	5632	5334
62.5	8306	8353	9291	9379	9460	9493	8894	8046	6146	4579
65.0	8770	8830	9856	9298	9081	8669	8076	7875	6172	3846
67.5	7755	7823	8944	9555	9503	8732	7464	6790	6117	3612
70.0	8061	8146	8864	8438	8364	8375	6995	6050	5866	3525
72.5	7375	7476	8255	8681	8715	7852	6649	5416	5046	3488
75.0	5680	5978	6553	7398	7460	7325	6143	5207	4053	3333
77.5	4343	4391	4596	5217	5369	5501	5361	4251	3519	2972
80.0	2433	2434	2768	3498	3662	3693	3585	3547	2893	2238
82.5	1104	1090	1142	1320	1347	1642	1926	2030	2053	1467
85.0	220	210	225	312	331	449	518	738	942	892
87.5	28	24	18	22	21	34	28	69	132	231
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	2090	2090	2090	2090	2090	2090	2090	2090	2090	2090
2.5	2085	2042	1993	1920	1861	1798	1756	1735	1721	1708
5.0	2189	2056	1935	1747	1609	1527	1472	1446	1429	1421
7.5	2324	2101	1909	1646	1495	1424	1381	1355	1337	1331
10.0	2462	2142	1884	1583	1447	1388	1346	1334	1308	1282
12.5	2656	2230	1901	1557	1433	1381	1346	1287	1237	1204
15.0	2905	2360	1963	1603	1456	1385	1296	1232	1163	1117
17.5	3194	2502	2041	1662	1529	1379	1251	1153	1067	1005
20.0	3496	2632	2093	1690	1552	1382	1246	1070	960	884
22.5	3772	2692	2069	1658	1501	1350	1197	992	848	768
25.0	3927	2652	1982	1632	1458	1280	1077	870	755	683
27.5	4117	2643	1948	1656	1448	1188	948	763	686	637

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CANDELA TABULATION - (Cont.)

30.0	4293	2622	1920	1650	1444	1119	848	697	626	607
32.5	4369	2561	1897	1651	1388	1050	777	657	596	602
35.0	4394	2477	1785	1564	1291	956	734	633	603	608
37.5	4499	2465	1711	1502	1147	858	711	642	610	617
40.0	4769	2498	1725	1461	1047	773	712	649	625	589
42.5	5007	2516	1690	1403	980	708	719	684	554	414
45.0	5224	2537	1691	1371	971	656	720	656	361	295
47.5	5389	2598	1738	1338	929	649	728	430	267	261
50.0	5565	2679	1817	1262	878	652	594	304	239	242
52.5	5592	2704	1864	1170	807	734	366	267	227	221
55.0	5328	2590	1818	1098	755	733	290	245	204	196
57.5	5226	2441	1746	1013	720	441	262	207	177	174
60.0	5164	2352	1641	918	713	321	235	173	155	150
62.5	4868	2213	1555	837	664	294	205	150	132	127
65.0	4542	2202	1501	782	464	271	177	130	114	110
67.5	4161	2135	1398	735	372	228	153	111	96	94
70.0	3740	1896	1244	694	337	199	129	94	80	79
72.5	2973	1654	1084	604	284	163	110	76	65	62
75.0	2409	1419	906	357	234	133	88	61	52	50
77.5	1879	1165	649	288	180	96	64	48	42	38
80.0	1233	800	420	224	126	64	45	37	33	29
82.5	730	494	232	150	67	41	34	29	25	22
85.0	462	221	104	72	32	26	22	19	16	14
87.5	145	52	26	20	16	15	14	13	11	11
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

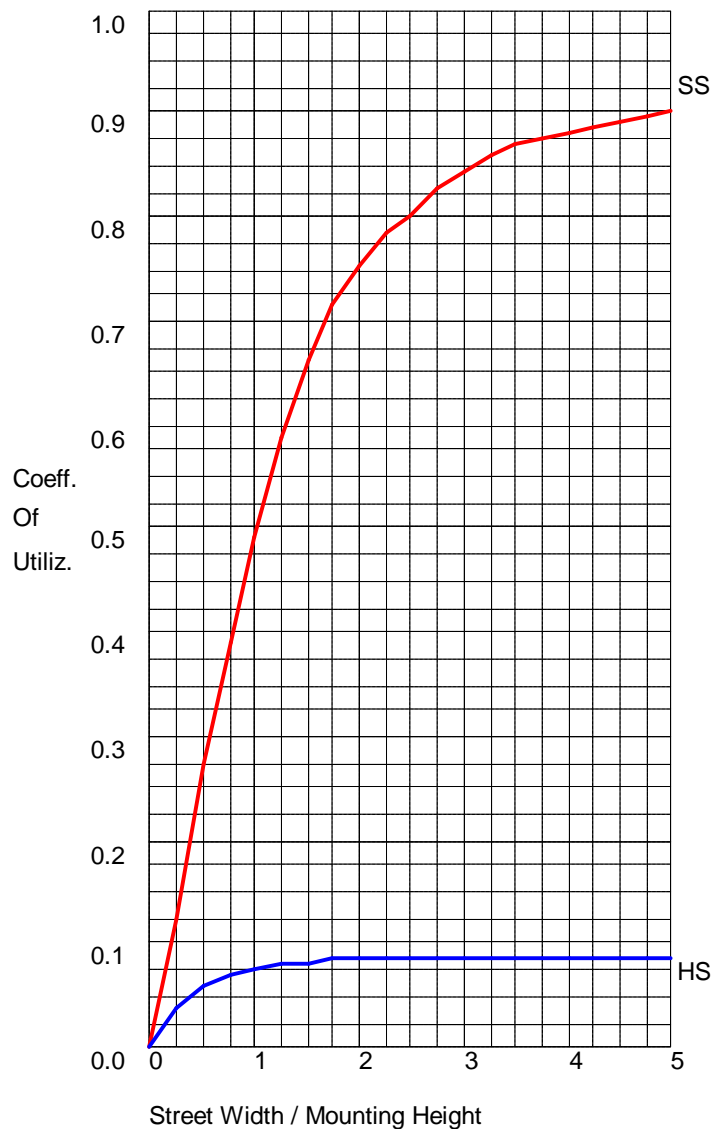
	<u>175.0</u>	<u>180.0</u>
0.0	2090	2090
2.5	1697	1704
5.0	1410	1419
7.5	1322	1329
10.0	1264	1269
12.5	1182	1185
15.0	1086	1086
17.5	968	967
20.0	840	837
22.5	726	725
25.0	644	642
27.5	596	597
30.0	567	567
32.5	571	570
35.0	579	579
37.5	593	591
40.0	504	492
42.5	324	311
45.0	250	242
47.5	225	217
50.0	209	200
52.5	188	175
55.0	170	155
57.5	154	137
60.0	136	119
62.5	120	103
65.0	108	91

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CANDELA TABULATION - (Cont.)

67.5	93	79
70.0	75	64
72.5	57	52
75.0	44	42
77.5	35	35
80.0	28	28
82.5	20	19
85.0	12	12
87.5	10	9
90.0	0	0

COEFFICIENTS OF UTILIZATION

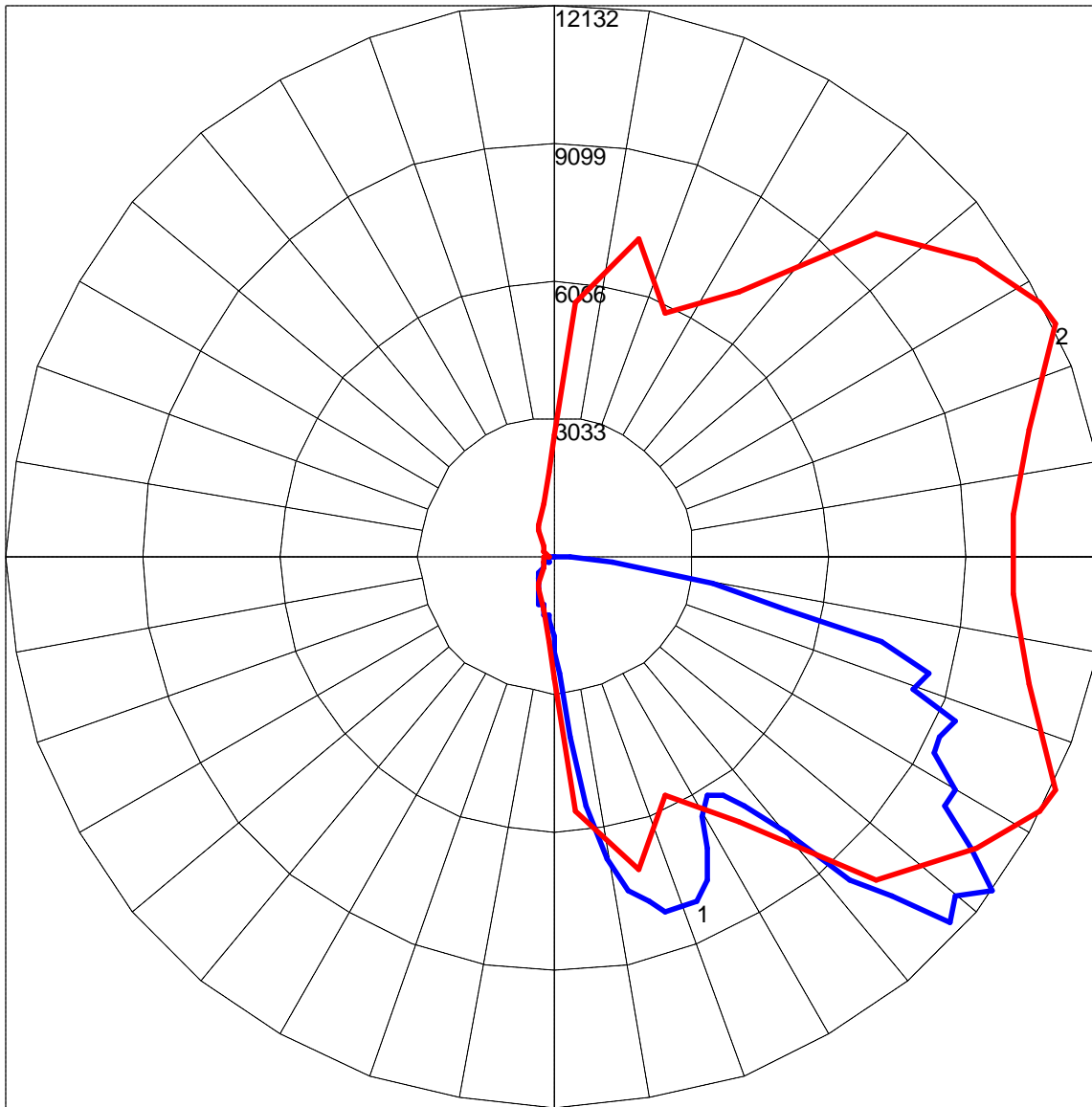


FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	18900.1	91.3
Downward House Side	1799.9	8.7
Downward Total	20700.0	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	20700.0	100.0

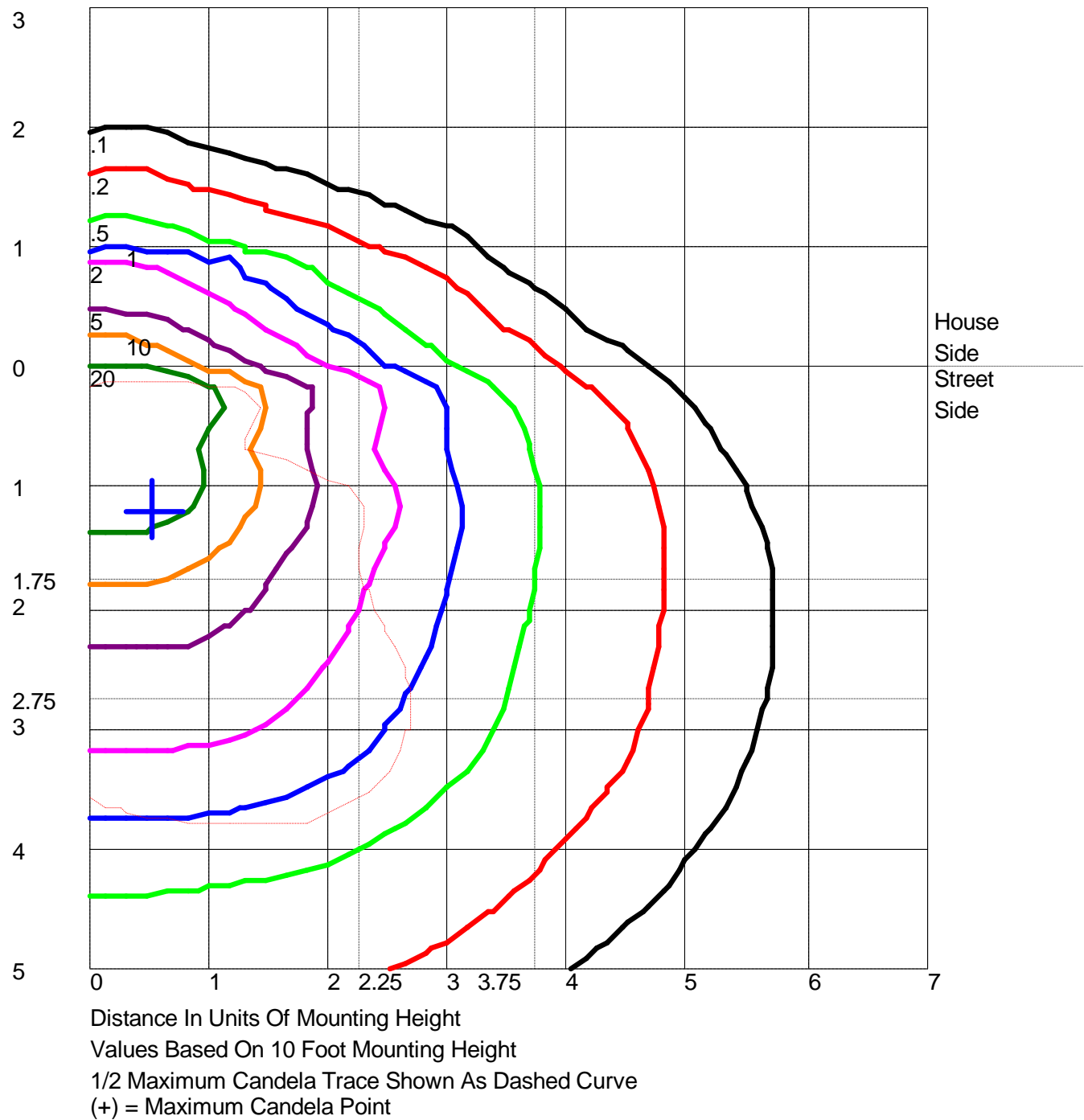
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POLAR GRAPH

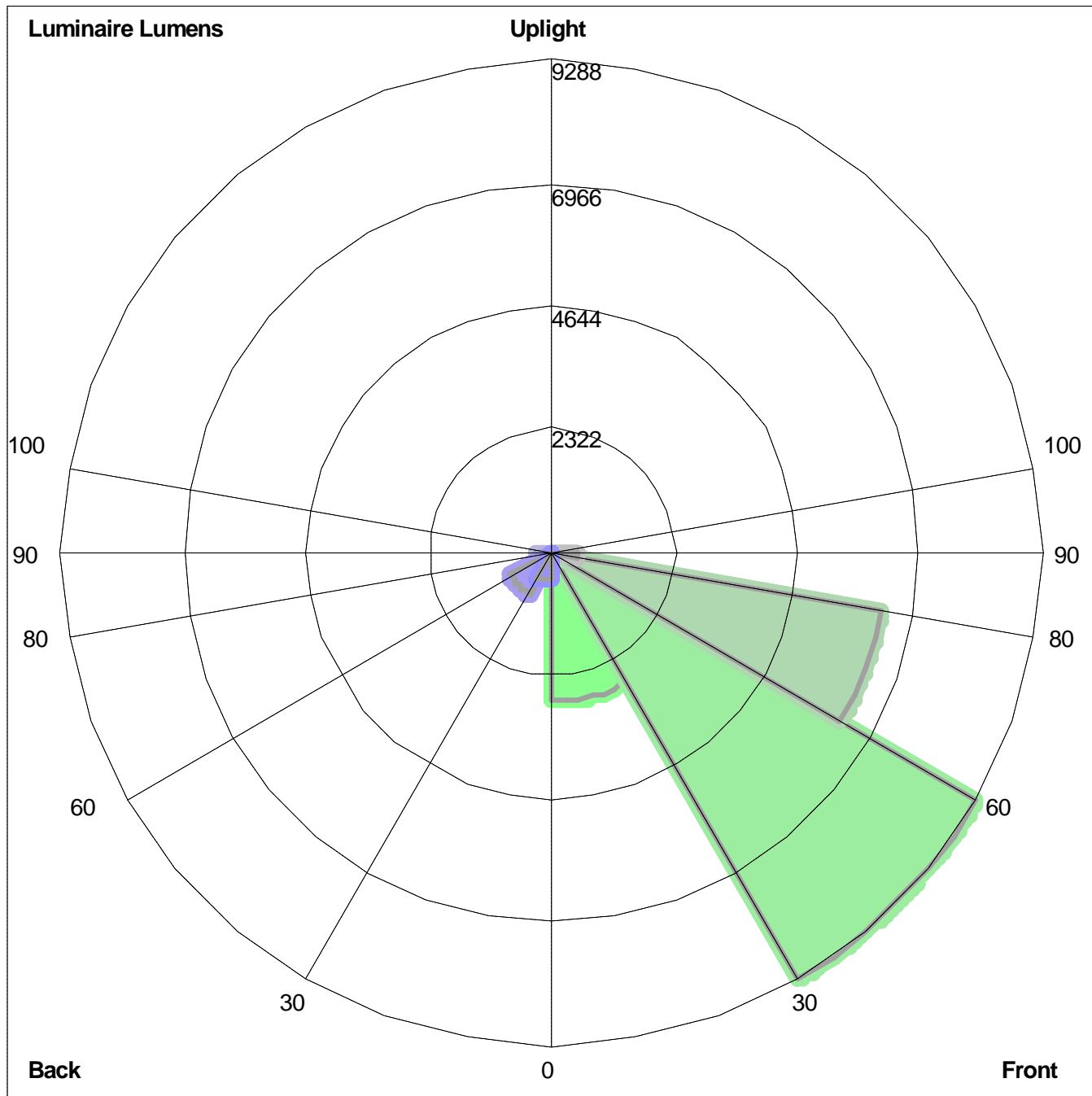


Maximum Candela = 12132 Located At Horizontal Angle = 25, Vertical Angle = 52.5
1 - Vertical Plane Through Horizontal Angles (25 - 205) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (52.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=2816.3, Medium=9287.6, High=6319.3, Very High=476.9
Back: Low=540.3, Medium=899.5, High=334.0, Very High=26.0
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G3