



IES ROAD REPORT
PHOTOMETRIC FILENAME : XGBM-3-LED-LW-NW.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-5317
[TESTLAB]LSI INDUSTRIES
[ISSUE DATE]03/21/14
[TEST DATE]03/21/14
[MANUFACTURER]LSI INDUSTRIES
[LUMEN CATEGORY]XGBM-3-LED-LW-NW
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11451
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	136.4
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	7114
Maximum Candela Angle	52.5H 55V
Maximum Candela (<90 Degrees Vertical)	7114
Maximum Candela Angle (<90 Degrees Vertical)	52.5H 55V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1006 (8.8% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1359.1	N.A.	11.9
FM - Front-Medium (30-60)	5199.2	N.A.	45.4
FH - Front-High (60-80)	2574.5	N.A.	22.5
FVH - Front-Very High (80-90)	62.4	N.A.	0.5
BL - Back-Low (0-30)	728.8	N.A.	6.4
BM - Back-Medium (30-60)	1137.8	N.A.	9.9
BH - Back-High (60-80)	380.7	N.A.	3.3
BVH - Back-Very High (80-90)	8.8	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	11451.3	N.A.	100.0
BUG Rating	B2-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>52.5</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	1703	1703	1703	1703	1703	1703	1703	1703	1703	1703
2.5	1722	1727	1722	1734	1743	1747	1764	1767	1767	1775
5.0	1781	1785	1795	1819	1849	1872	1908	1908	1925	1948
7.5	1794	1804	1834	1898	1987	2097	2179	2196	2239	2301
10.0	1894	1909	1960	2063	2218	2430	2562	2602	2698	2770
12.5	2030	2054	2146	2349	2613	2894	2993	3034	3158	3205
15.0	2182	2214	2362	2674	3027	3330	3466	3495	3520	3562
17.5	2298	2345	2588	3041	3434	3727	3819	3846	3816	3726
20.0	2393	2448	2792	3395	3968	4137	4063	4015	3887	3656
22.5	2457	2520	2999	3731	4340	4411	4194	4081	3693	3491
25.0	2322	2409	2988	3938	4650	4571	4190	4031	3486	3289
27.5	2130	2222	2899	3951	4649	4615	4205	4000	3324	3102
30.0	2041	2153	2934	3975	4476	4568	4215	4014	3263	3012
32.5	1970	2112	3004	4036	4404	4433	4231	4094	3439	3097
35.0	1885	2051	3102	4100	4357	4299	4331	4318	3821	3375
37.5	1831	2028	3291	4183	4284	4232	4410	4475	4332	3711
40.0	1873	2135	3549	4231	4465	4347	4527	4636	4811	4197
42.5	2070	2428	3840	4412	4728	4691	4742	4834	5335	4650
45.0	2370	2730	4114	4571	4954	5295	5106	5182	5776	5001
47.5	2712	2978	4345	4648	5249	5966	5692	5636	6064	5501
50.0	2705	3079	4429	4616	5505	6539	6362	6171	6327	5835
52.5	2520	2953	4169	4436	5537	6774	6865	6699	6424	6019
55.0	2264	2667	3727	4047	5302	6825	7114	6981	6329	5812
57.5	1833	2175	3013	3587	4803	6590	6967	6887	6134	5535
60.0	1613	1861	2384	2890	4226	6055	6672	6671	5845	5634
62.5	1170	1360	1885	2462	3490	5170	5923	6046	5729	5595
65.0	575	712	1028	1757	2970	4239	5235	5467	5756	5713
67.5	487	551	747	1059	2214	3738	4765	5105	5712	5511
70.0	82	107	201	652	1509	3458	4378	4641	4967	4712
72.5	54	73	107	237	1117	2858	3920	4087	4183	4032
75.0	42	56	83	161	818	2231	2962	3073	3041	2790
77.5	25	31	53	109	610	1591	1902	1946	1827	1464
80.0	16	19	31	61	371	895	999	1006	854	659
82.5	10	12	17	31	135	279	375	372	321	256
85.0	5	6	8	10	18	41	72	75	56	39
87.5	1	2	3	3	4	5	6	6	6	5
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	1703	1703	1703	1703	1703	1703	1703	1703	1703	1703
2.5	1760	1752	1749	1732	1714	1680	1661	1634	1599	1594
5.0	1930	1915	1901	1828	1743	1623	1515	1424	1336	1302
7.5	2293	2296	2243	2092	1851	1599	1428	1296	1204	1154
10.0	2752	2752	2670	2385	2003	1733	1551	1371	1223	1126
12.5	3175	3149	3039	2621	2219	1976	1753	1489	1247	1083
15.0	3527	3468	3315	2778	2451	2235	1925	1563	1256	1038
17.5	3635	3545	3363	2805	2596	2325	1932	1533	1203	988
20.0	3501	3403	3231	2778	2604	2234	1870	1359	1112	980
22.5	3338	3246	3074	2732	2508	2042	1555	1160	1076	1025
25.0	3135	3062	2937	2698	2346	1725	1232	1067	1074	1017
27.5	2968	2910	2838	2661	2141	1433	1075	1034	1020	912

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CANDELA TABULATION - (Cont.)

30.0	2939	2902	2862	2648	1896	1202	1026	964	873	707
32.5	3052	3018	2962	2614	1617	1043	980	847	683	486
35.0	3324	3276	3154	2601	1338	924	863	685	523	362
37.5	3534	3492	3350	2562	1141	835	693	512	437	331
40.0	3842	3791	3611	2461	1022	820	554	406	393	313
42.5	4114	4077	3848	2327	959	733	455	367	341	271
45.0	4390	4378	4119	2156	960	622	377	310	308	241
47.5	4638	4680	4359	1949	928	531	364	227	268	200
50.0	4708	4793	4488	1696	870	431	372	190	187	121
52.5	4551	4693	4441	1479	746	358	357	183	115	90
55.0	4297	4495	4275	1331	628	306	336	135	100	84
57.5	4075	4210	4050	1139	490	257	309	132	92	79
60.0	3981	4062	3967	930	393	237	172	140	88	76
62.5	3923	4022	3817	701	290	191	159	107	87	67
65.0	3988	3947	3480	497	209	140	158	128	83	61
67.5	3846	3555	3034	344	151	123	131	115	74	50
70.0	3479	3134	2563	260	118	123	116	89	61	44
72.5	2822	2549	1937	178	101	108	109	74	48	39
75.0	1937	1735	1223	115	82	96	76	57	42	33
77.5	1078	969	644	70	63	70	51	40	35	24
80.0	493	416	281	46	42	40	28	27	25	16
82.5	200	161	87	21	20	15	14	13	14	9
85.0	29	20	13	6	6	6	7	6	7	5
87.5	4	4	3	3	4	5	5	4	4	2
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

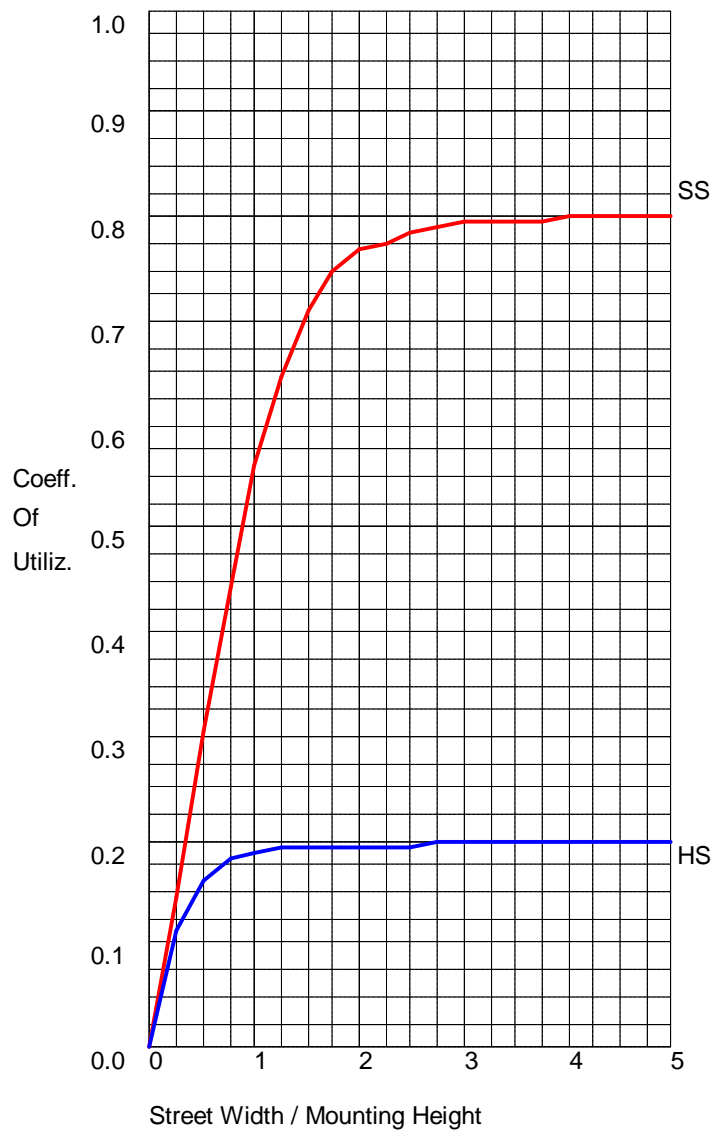
	<u>175.0</u>	<u>180.0</u>
0.0	1703	1703
2.5	1576	1592
5.0	1268	1285
7.5	1123	1128
10.0	1082	1086
12.5	1011	1009
15.0	950	941
17.5	903	893
20.0	929	926
22.5	994	991
25.0	965	956
27.5	818	798
30.0	551	548
32.5	329	320
35.0	220	205
37.5	200	185
40.0	177	162
42.5	161	144
45.0	144	131
47.5	111	96
50.0	73	61
52.5	66	58
55.0	65	54
57.5	64	48
60.0	63	43
62.5	55	34
65.0	50	30

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CANDELA TABULATION - (Cont.)

67.5	42	26
70.0	30	24
72.5	24	18
75.0	19	15
77.5	15	10
80.0	9	6
82.5	6	4
85.0	4	2
87.5	1	0
90.0	0	0

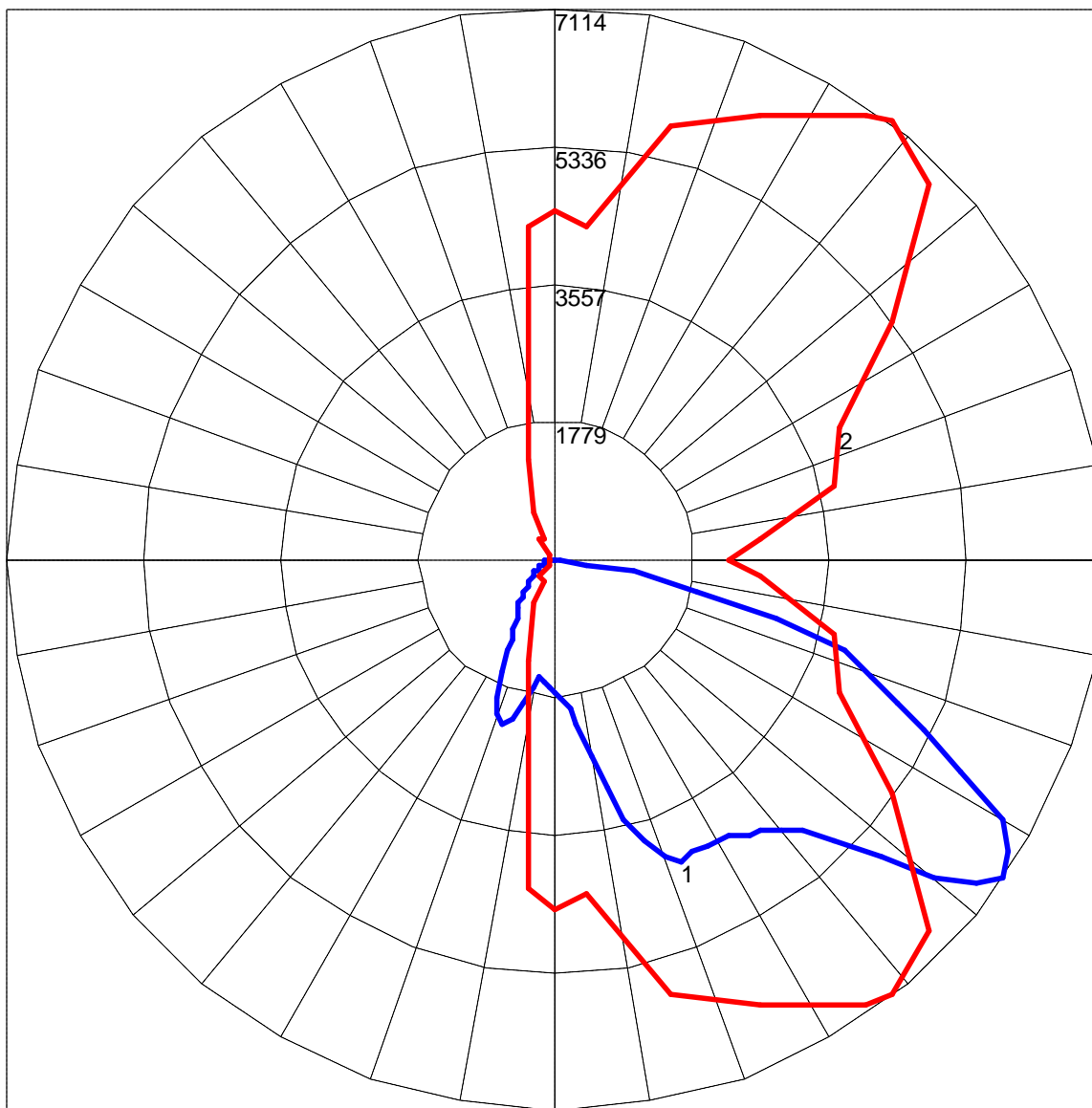
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

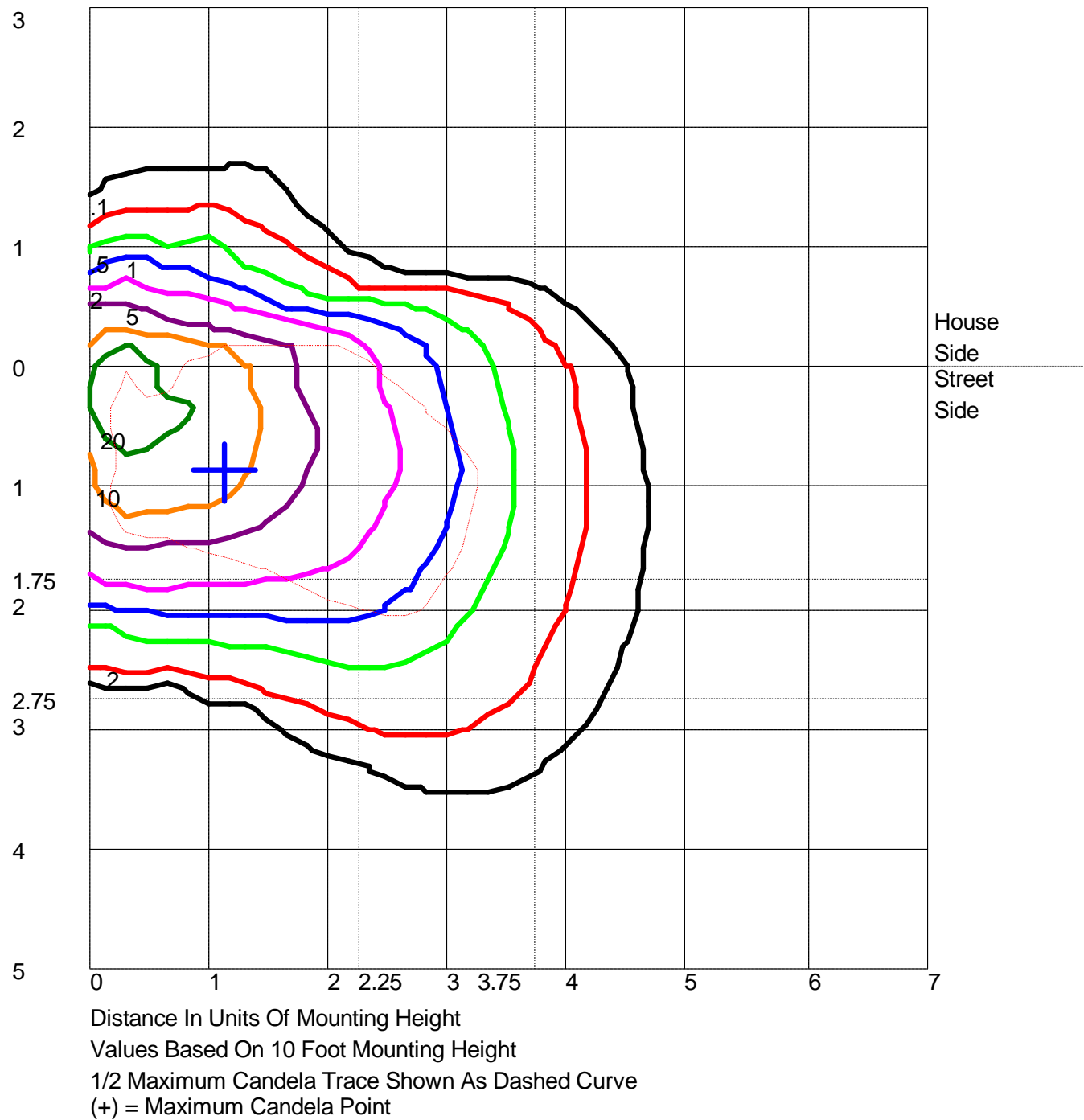
	Lumens	Percent Of Luminaire
Downward Street Side	9195.1	80.3
Downward House Side	2256.1	19.7
Downward Total	11451.2	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	11451.2	100.0

POLAR GRAPH

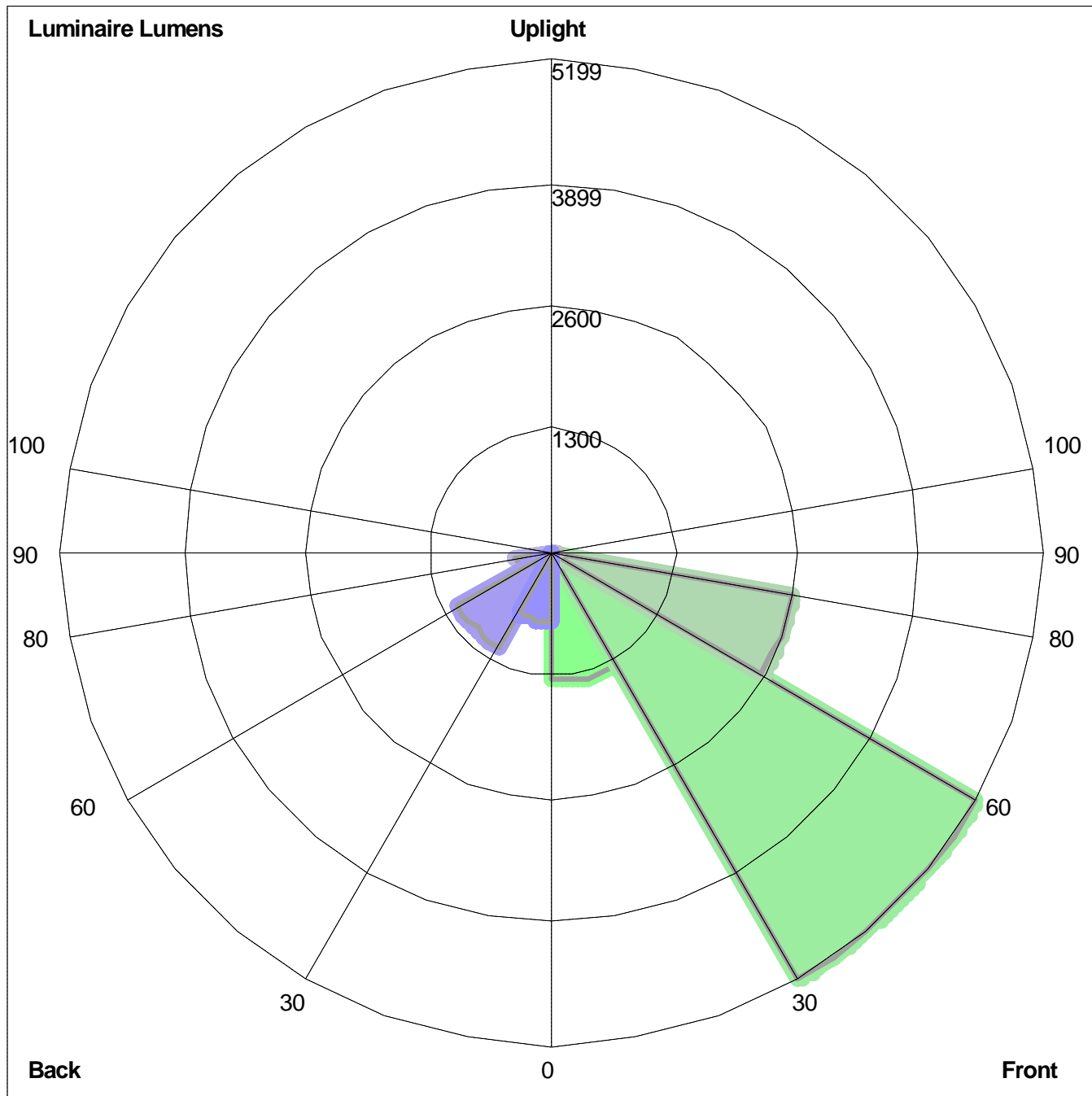


Maximum Candela = 7114 Located At Horizontal Angle = 52.5, Vertical Angle = 55
1 - Vertical Plane Through Horizontal Angles (52.5 - 232.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (55) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1359.1, Medium=5199.2, High=2574.5, Very High=62.4
Back: Low=728.8, Medium=1137.8, High=380.7, Very High=8.8
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G2