



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

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-5123  
[TESTLAB]LSI INDUSTRIES  
[ISSUE DATE]02/07/14  
[TEST DATE]02/07/14  
[MANUFACTURER]LSI INDUSTRIES  
[LUMEN CATEGORY]XGBM-FT-LED-LW-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	15019
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	140.5
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	8881
Maximum Candela Angle	30H 55V
Maximum Candela (<90 Degrees Vertical)	8881
Maximum Candela Angle (<90 Degrees Vertical)	30H 55V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	2576 (17.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1887.3	N.A.	12.6
FM - Front-Medium (30-60)	6655.6	N.A.	44.3
FH - Front-High (60-80)	4927.8	N.A.	32.8
FVH - Front-Very High (80-90)	312.0	N.A.	2.1
BL - Back-Low (0-30)	382.2	N.A.	2.5
BM - Back-Medium (30-60)	622.2	N.A.	4.1
BH - Back-High (60-80)	218.2	N.A.	1.5
BVH - Back-Very High (80-90)	14.0	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	15019.3	N.A.	100.0
BUG Rating	B1-U0-G3		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u><b>0</b></u>	<u><b>5</b></u>	<u><b>15</b></u>	<u><b>25</b></u>	<u><b>30</b></u>	<u><b>35</b></u>	<u><b>45</b></u>	<u><b>55</b></u>	<u><b>65</b></u>	<u><b>75</b></u>
<b>0.0</b>	1231	1231	1231	1231	1231	1231	1231	1231	1231	1231
<b>2.5</b>	1336	1354	1342	1342	1326	1313	1288	1271	1241	1219
<b>5.0</b>	1880	1928	1869	1830	1766	1695	1571	1471	1359	1292
<b>7.5</b>	3038	2989	2882	2773	2651	2500	2195	1903	1592	1392
<b>10.0</b>	4226	4167	4014	3829	3653	3446	3002	2526	1961	1537
<b>12.5</b>	5380	5348	5215	4996	4779	4552	3887	3278	2507	1810
<b>15.0</b>	5922	5953	5933	5815	5696	5571	4948	4090	3094	2137
<b>17.5</b>	6005	6055	6103	6139	6165	6183	5844	4919	3687	2511
<b>20.0</b>	5767	5829	5894	6118	6240	6321	6305	5719	4400	2963
<b>22.5</b>	5562	5621	5687	5888	5951	6117	6483	6372	5067	3292
<b>25.0</b>	5326	5396	5512	5667	5736	5867	6432	6502	5644	3645
<b>27.5</b>	4766	4830	5032	5401	5518	5694	6301	6528	6213	3979
<b>30.0</b>	4427	4471	4596	4855	5030	5519	6136	6684	6551	4315
<b>32.5</b>	4364	4404	4436	4522	4750	5164	6062	6597	6740	4742
<b>35.0</b>	4592	4627	4552	4600	4803	5076	5758	6429	6900	5223
<b>37.5</b>	5140	5171	4987	4964	5070	5190	5331	6136	6799	5717
<b>40.0</b>	5985	6015	5720	5670	5611	5442	5150	5595	6501	5976
<b>42.5</b>	6747	6760	6642	6741	6433	5949	5188	5128	5969	5954
<b>45.0</b>	7378	7394	7264	7741	7538	6877	5478	4850	5475	5966
<b>47.5</b>	7157	7187	7465	8577	8366	7911	5991	4785	5056	5860
<b>50.0</b>	7736	7710	7677	8245	8571	8568	6751	4872	4623	5548
<b>52.5</b>	7680	7779	8346	8702	8314	8242	7244	5140	4232	4957
<b>55.0</b>	7087	7145	7812	8872	8881	8340	7304	5512	3916	4332
<b>57.5</b>	7291	7324	7797	8025	8154	8297	6983	5763	3758	3989
<b>60.0</b>	6818	6880	7972	8290	7930	7649	7066	5743	3896	3695
<b>62.5</b>	6741	6791	7675	7860	7960	7706	6582	5669	4306	3403
<b>65.0</b>	7259	7288	8240	7893	7511	7235	6208	5818	4412	2966
<b>67.5</b>	6597	6709	8039	8226	7888	6988	6076	5416	4361	2773
<b>70.0</b>	6510	6615	7447	7300	7270	6993	5873	4986	4371	2601
<b>72.5</b>	5562	5729	6560	7098	6922	6490	5639	4583	3883	2462
<b>75.0</b>	4029	4135	4456	5538	5889	5767	5052	4092	3213	2306
<b>77.5</b>	2965	2976	3245	4160	4186	4101	3988	3427	2898	2087
<b>80.0</b>	1582	1556	1869	2337	2482	2576	2451	2428	2336	1692
<b>82.5</b>	573	587	735	739	864	1006	1108	1285	1521	1208
<b>85.0</b>	77	81	118	134	171	212	261	421	586	635
<b>87.5</b>	5	6	9	11	12	14	20	38	68	143
<b>90.0</b>	0	0	0	0	0	0	0	0	0	0

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u><b>85</b></u>	<u><b>90</b></u>	<u><b>95</b></u>	<u><b>105</b></u>	<u><b>115</b></u>	<u><b>125</b></u>	<u><b>135</b></u>	<u><b>145</b></u>	<u><b>155</b></u>	<u><b>165</b></u>
<b>0.0</b>	1231	1231	1231	1231	1231	1231	1231	1231	1231	1231
<b>2.5</b>	1213	1202	1191	1178	1176	1176	1175	1182	1188	1184
<b>5.0</b>	1238	1213	1193	1165	1144	1126	1103	1090	1077	1059
<b>7.5</b>	1277	1243	1208	1163	1114	1062	1025	1010	1004	995
<b>10.0</b>	1331	1276	1229	1159	1075	1028	1005	977	955	933
<b>12.5</b>	1439	1355	1283	1169	1059	1019	973	931	889	853
<b>15.0</b>	1590	1470	1371	1200	1085	1003	932	865	807	772
<b>17.5</b>	1738	1568	1448	1229	1115	998	883	812	733	683
<b>20.0</b>	1886	1656	1499	1228	1113	982	858	742	673	608
<b>22.5</b>	1920	1638	1463	1193	1061	939	834	667	611	548
<b>25.0</b>	1957	1608	1452	1214	1033	871	757	609	537	491
<b>27.5</b>	1909	1519	1385	1235	1049	820	672	553	486	457

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**CANDELA TABULATION - (Cont.)**

30.0	1920	1472	1356	1230	1051	778	622	512	455	444
32.5	2015	1418	1277	1200	1010	740	588	493	444	442
35.0	2175	1424	1238	1113	917	707	547	487	442	440
37.5	2303	1443	1239	1017	840	649	529	494	434	428
40.0	2475	1479	1232	949	777	621	513	490	425	395
42.5	2580	1516	1193	915	723	559	511	485	375	301
45.0	2675	1560	1241	889	641	520	480	441	258	218
47.5	2809	1604	1297	839	577	533	475	316	186	195
50.0	2855	1608	1292	793	558	554	426	223	168	178
52.5	2833	1516	1262	759	506	575	264	190	153	154
55.0	2884	1468	1236	739	481	470	197	159	131	131
57.5	3012	1510	1230	705	465	296	175	132	114	107
60.0	3125	1572	1255	672	454	231	155	109	99	87
62.5	2990	1487	1259	653	412	222	146	89	80	67
65.0	2942	1380	1119	609	311	185	120	73	62	53
67.5	2734	1268	933	535	244	158	98	62	50	44
70.0	2392	1192	803	469	213	125	77	51	41	37
72.5	1940	1001	672	399	182	98	64	40	30	26
75.0	1588	840	560	237	154	74	45	27	21	16
77.5	1184	641	417	184	123	53	33	19	13	9
80.0	774	441	284	135	82	35	23	17	10	6
82.5	519	256	149	93	45	21	16	10	10	4
85.0	298	105	53	42	20	12	9	7	5	4
87.5	74	20	12	12	9	8	7	6	5	3
90.0	0	0	0	0	0	0	0	0	0	0

**Vert. Horizontal Angles**  
**Angles**

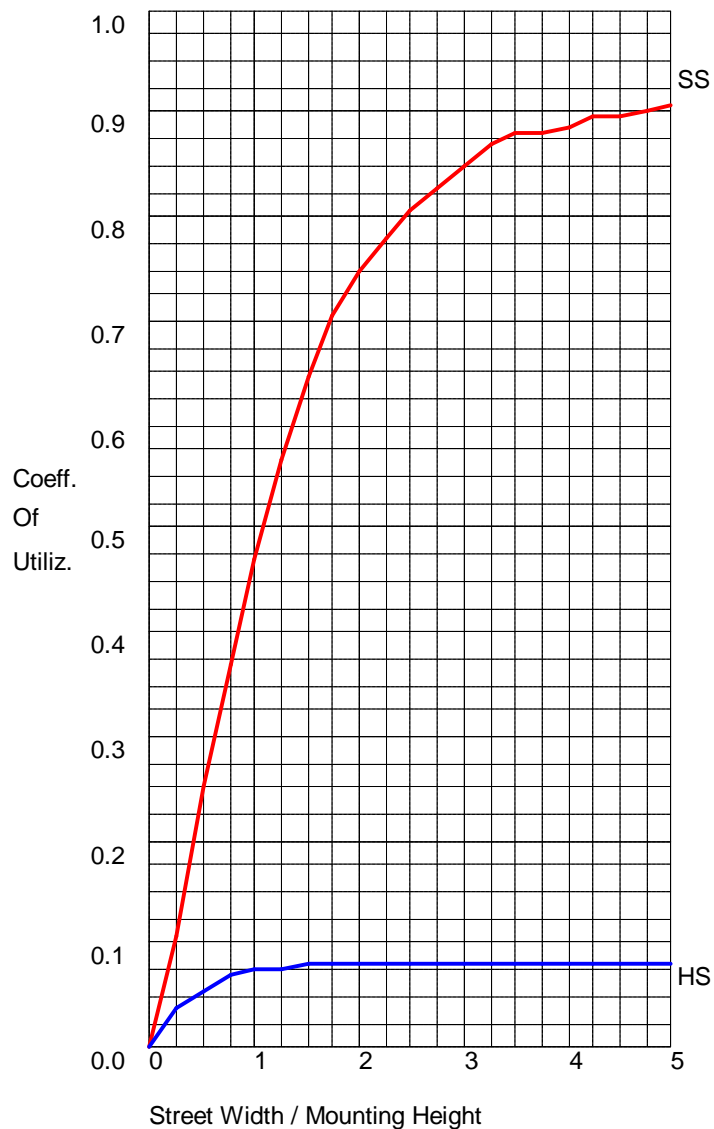
	<b>175</b>	<b>180</b>
0.0	1231	1231
2.5	1185	1184
5.0	1054	1056
7.5	992	990
10.0	924	922
12.5	834	833
15.0	749	747
17.5	657	646
20.0	577	566
22.5	513	502
25.0	465	458
27.5	439	434
30.0	429	424
32.5	429	425
35.0	418	412
37.5	406	400
40.0	349	340
42.5	233	228
45.0	174	168
47.5	159	151
50.0	143	131
52.5	125	114
55.0	108	97
57.5	93	80
60.0	79	65
62.5	65	50
65.0	53	40

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**CANDELA TABULATION - (Cont.)**

<b>67.5</b>	<b>43</b>	<b>32</b>
<b>70.0</b>	<b>29</b>	<b>25</b>
<b>72.5</b>	<b>19</b>	<b>16</b>
<b>75.0</b>	<b>13</b>	<b>10</b>
<b>77.5</b>	<b>8</b>	<b>6</b>
<b>80.0</b>	<b>5</b>	<b>4</b>
<b>82.5</b>	<b>3</b>	<b>2</b>
<b>85.0</b>	<b>1</b>	<b>1</b>
<b>87.5</b>	<b>1</b>	<b>1</b>
<b>90.0</b>	<b>0</b>	<b>0</b>

### COEFFICIENTS OF UTILIZATION

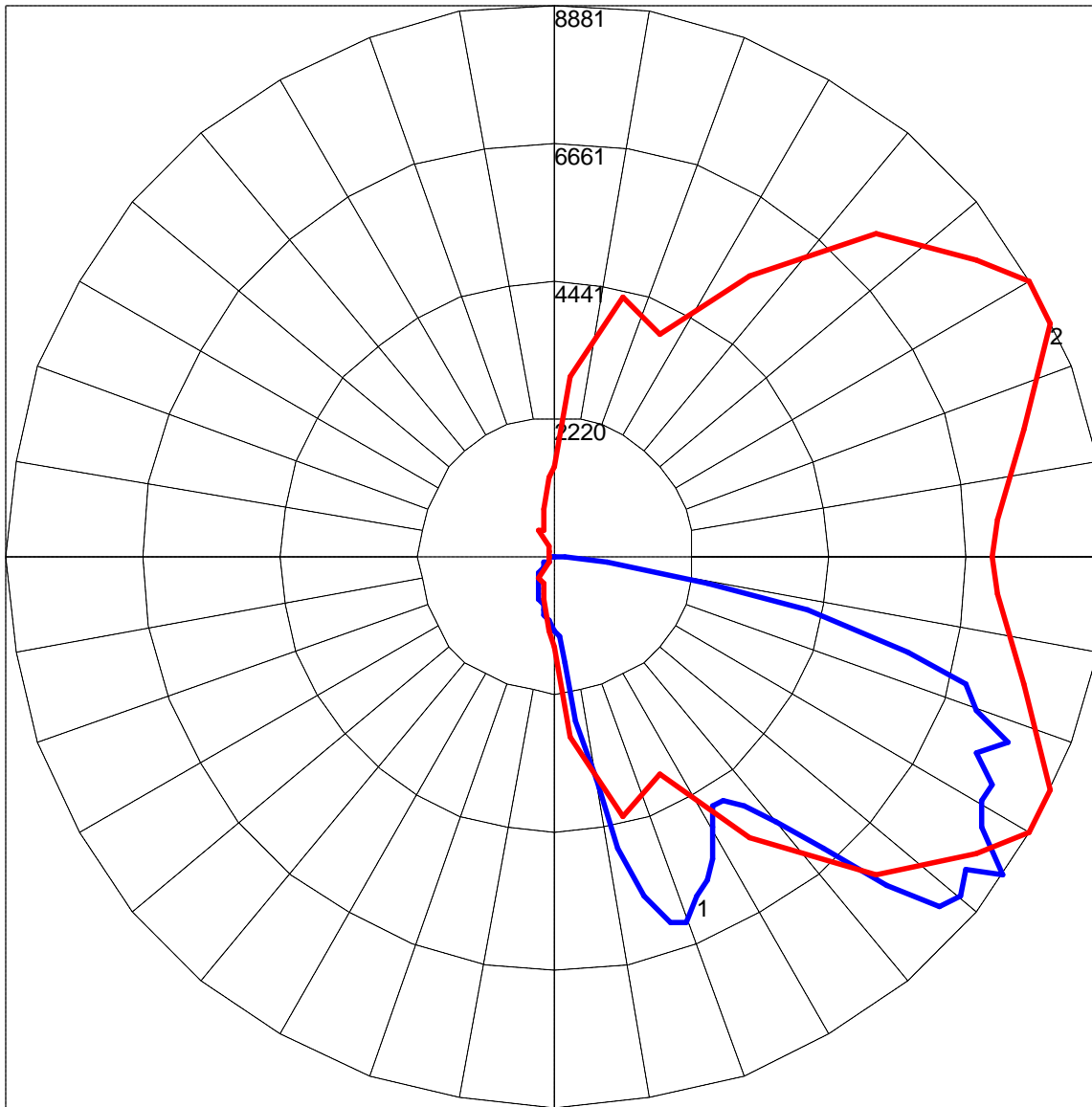


### FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	13782.7	91.8
Downward House Side	1236.6	8.2
Downward Total	15019.3	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	15019.3	100.0

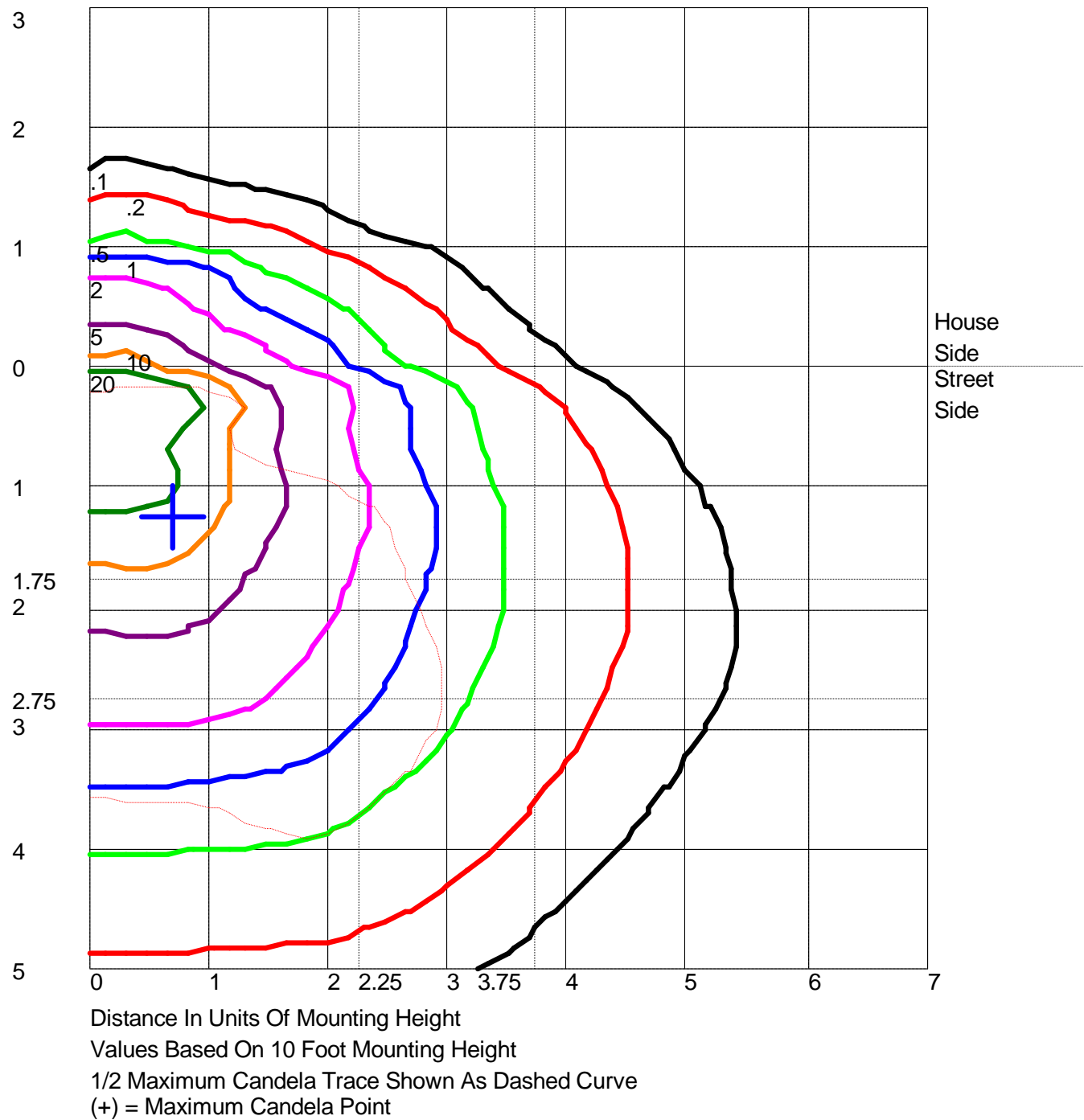
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POLAR GRAPH



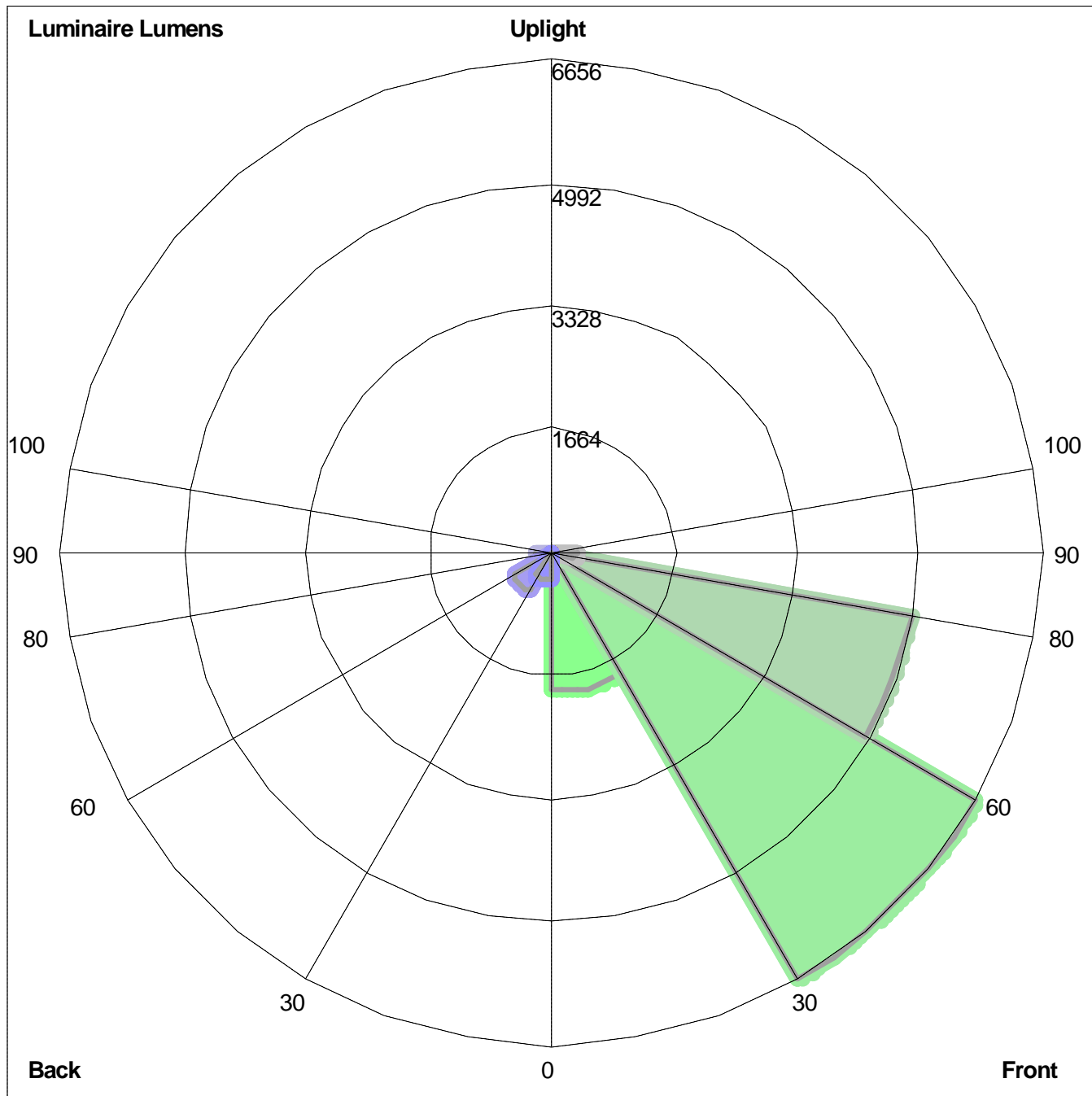
Maximum Candela = 8881 Located At Horizontal Angle = 30, Vertical Angle = 55  
# 1 - Vertical Plane Through Horizontal Angles (30 - 210) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (55) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=1887.3, Medium=6655.6, High=4927.8, Very High=312.0  
Back: Low=382.2, Medium=622.2, High=218.2, Very High=14.0  
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G3