



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

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-5020  
[TESTLAB]LSI INDUSTRIES  
[ISSUE DATE]01/14/14  
[TEST DATE]01/14/14  
[MANUFACTURER]LSI INDUSTRIES  
[LUMEN CATEGORY]XGBM-FTA-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	23034
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	187.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	11587
Maximum Candela Angle	27.5H 55V
Maximum Candela (<90 Degrees Vertical)	11587
Maximum Candela Angle (<90 Degrees Vertical)	27.5H 55V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	2242 (9.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2750.9	N.A.	11.9
FM - Front-Medium (30-60)	8759.8	N.A.	38.0
FH - Front-High (60-80)	5447.1	N.A.	23.6
FVH - Front-Very High (80-90)	130.7	N.A.	0.6
BL - Back-Low (0-30)	2400.1	N.A.	10.4
BM - Back-Medium (30-60)	2872.1	N.A.	12.5
BH - Back-High (60-80)	650.1	N.A.	2.8
BVH - Back-Very High (80-90)	22.7	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	23033.5	N.A.	100.0
BUG Rating	B3-U0-G3		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u><b>0.0</b></u>	<u><b>5.0</b></u>	<u><b>15.0</b></u>	<u><b>25.0</b></u>	<u><b>27.5</b></u>	<u><b>35.0</b></u>	<u><b>45.0</b></u>	<u><b>55.0</b></u>	<u><b>65.0</b></u>	<u><b>75.0</b></u>
<b>0.0</b>	7233	7233	7233	7233	7233	7233	7233	7233	7233	7233
<b>2.5</b>	7384	7415	7388	7365	7378	7332	7306	7281	7244	7232
<b>5.0</b>	7351	7403	7382	7384	7398	7357	7363	7348	7327	7293
<b>7.5</b>	7049	7130	7132	7167	7211	7220	7299	7347	7369	7343
<b>10.0</b>	6523	6599	6647	6747	6808	6900	7098	7265	7377	7386
<b>12.5</b>	6017	6069	6102	6225	6283	6425	6737	7083	7329	7444
<b>15.0</b>	5795	5815	5848	5917	5945	6039	6300	6798	7223	7508
<b>17.5</b>	5661	5676	5699	5740	5768	5810	6014	6400	7051	7587
<b>20.0</b>	5628	5645	5649	5658	5675	5683	5850	6141	6838	7637
<b>22.5</b>	5621	5642	5644	5636	5647	5638	5735	5981	6622	7689
<b>25.0</b>	5621	5639	5645	5646	5647	5641	5701	5919	6466	7785
<b>27.5</b>	5713	5732	5707	5663	5666	5657	5708	5930	6499	7835
<b>30.0</b>	5855	5883	5853	5770	5752	5711	5783	6032	6553	7809
<b>32.5</b>	6074	6095	6046	5916	5903	5860	5953	6191	6545	7536
<b>35.0</b>	6387	6411	6321	6174	6139	6086	6258	6326	6425	7146
<b>37.5</b>	6943	6925	6804	6514	6486	6433	6496	6374	6284	6862
<b>40.0</b>	7288	7282	7190	7040	7023	6876	6719	6394	6194	6608
<b>42.5</b>	7817	7774	7591	7460	7525	7535	7045	6455	6096	6279
<b>45.0</b>	8630	8564	8252	8097	8110	7984	7430	6521	5994	6019
<b>47.5</b>	9621	9612	9211	9056	9000	8561	7793	6671	5939	5812
<b>50.0</b>	10392	10410	10197	10338	10154	9290	8001	6890	5940	5687
<b>52.5</b>	10202	10235	10611	11449	11299	10120	8420	7266	6095	5683
<b>55.0</b>	8980	9004	9495	11418	11587	10976	9088	7535	6279	5695
<b>57.5</b>	8430	8462	8694	10077	10274	10858	9984	7845	6437	5526
<b>60.0</b>	9040	9020	9105	9529	9452	9402	10229	8276	6351	5219
<b>62.5</b>	9503	9539	9872	10009	9761	8823	9147	8325	6132	4953
<b>65.0</b>	8516	8613	9239	10247	10213	9466	8262	7852	5737	4452
<b>67.5</b>	7567	7667	8157	8861	9075	9913	8335	6407	5218	4041
<b>70.0</b>	5809	5846	6541	7809	8197	8890	8510	5746	4837	3690
<b>72.5</b>	3535	3563	4197	5731	6338	7399	7009	6006	4147	3136
<b>75.0</b>	1363	1369	1803	3096	3555	4562	5104	5117	3627	2550
<b>77.5</b>	263	280	388	977	1251	1677	2622	3687	3514	2090
<b>80.0</b>	111	116	153	270	288	405	765	1602	2242	1721
<b>82.5</b>	52	54	68	95	95	118	156	304	786	1184
<b>85.0</b>	23	25	28	43	42	49	61	123	126	399
<b>87.5</b>	2	3	3	5	6	7	9	19	28	15
<b>90.0</b>	0	0	0	0	0	0	0	0	0	0

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u><b>85.0</b></u>	<u><b>90.0</b></u>	<u><b>95.0</b></u>	<u><b>105.0</b></u>	<u><b>115.0</b></u>	<u><b>125.0</b></u>	<u><b>135.0</b></u>	<u><b>145.0</b></u>	<u><b>155.0</b></u>	<u><b>165.0</b></u>
<b>0.0</b>	7233	7233	7233	7233	7233	7233	7233	7233	7233	7233
<b>2.5</b>	7208	7201	7181	7160	7150	7145	7151	7156	7137	7175
<b>5.0</b>	7231	7196	7166	7104	7042	6983	6945	6892	6854	6868
<b>7.5</b>	7254	7210	7157	7053	6929	6785	6698	6592	6528	6508
<b>10.0</b>	7303	7248	7173	6998	6805	6593	6482	6391	6351	6346
<b>12.5</b>	7404	7330	7227	6978	6675	6445	6368	6306	6268	6274
<b>15.0</b>	7566	7495	7365	6999	6593	6370	6302	6266	6203	6131
<b>17.5</b>	7795	7718	7566	7057	6575	6344	6281	6117	5844	5606
<b>20.0</b>	8012	7931	7750	7080	6578	6355	6163	5693	5183	4772
<b>22.5</b>	8258	8150	7912	7052	6630	6354	5794	5030	4256	3701
<b>25.0</b>	8601	8461	8115	7092	6748	6289	5232	4150	3188	2579
<b>27.5</b>	8933	8779	8312	7190	6884	6154	4542	3179	2134	1639

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**CANDELA TABULATION - (Cont.)**

30.0	9127	8959	8426	7285	6949	5909	3840	2250	1381	1029
32.5	9029	8892	8320	7244	6850	5404	3218	1531	917	710
35.0	8845	8792	8105	7036	6510	4648	2702	1141	696	587
37.5	8688	8697	7948	6920	5900	3842	2272	1057	619	537
40.0	8386	8492	7724	6765	5197	2949	1935	1044	588	502
42.5	7906	8069	7411	6543	4435	2273	1613	940	571	480
45.0	7574	7731	7082	6272	3552	1796	1327	872	575	457
47.5	7349	7595	6890	5920	2672	1382	1168	910	616	423
50.0	7162	7542	6805	5551	1978	1106	1060	928	601	341
52.5	6987	7544	6801	5120	1508	932	952	879	508	209
55.0	6629	7226	6592	4610	1286	806	869	659	425	148
57.5	6129	6798	6142	3911	1161	711	744	360	390	154
60.0	5613	6365	5691	3192	1062	637	513	231	324	175
62.5	4974	5760	5078	2438	935	557	269	190	223	168
65.0	4194	4852	4258	1766	756	367	205	188	172	145
67.5	3714	4168	3724	1309	621	238	212	200	164	106
70.0	3275	3707	3163	1009	444	216	196	189	121	72
72.5	2671	2908	2378	777	263	217	164	144	79	51
75.0	1879	2030	1611	561	178	181	138	109	48	35
77.5	1329	1421	1014	359	164	120	98	56	30	23
80.0	983	967	605	202	133	68	62	40	18	13
82.5	563	467	279	123	84	37	28	16	9	7
85.0	262	191	64	46	31	12	8	6	4	2
87.5	63	28	8	10	6	4	4	2	1	0
90.0	0	0	0	0	0	0	0	0	0	0

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

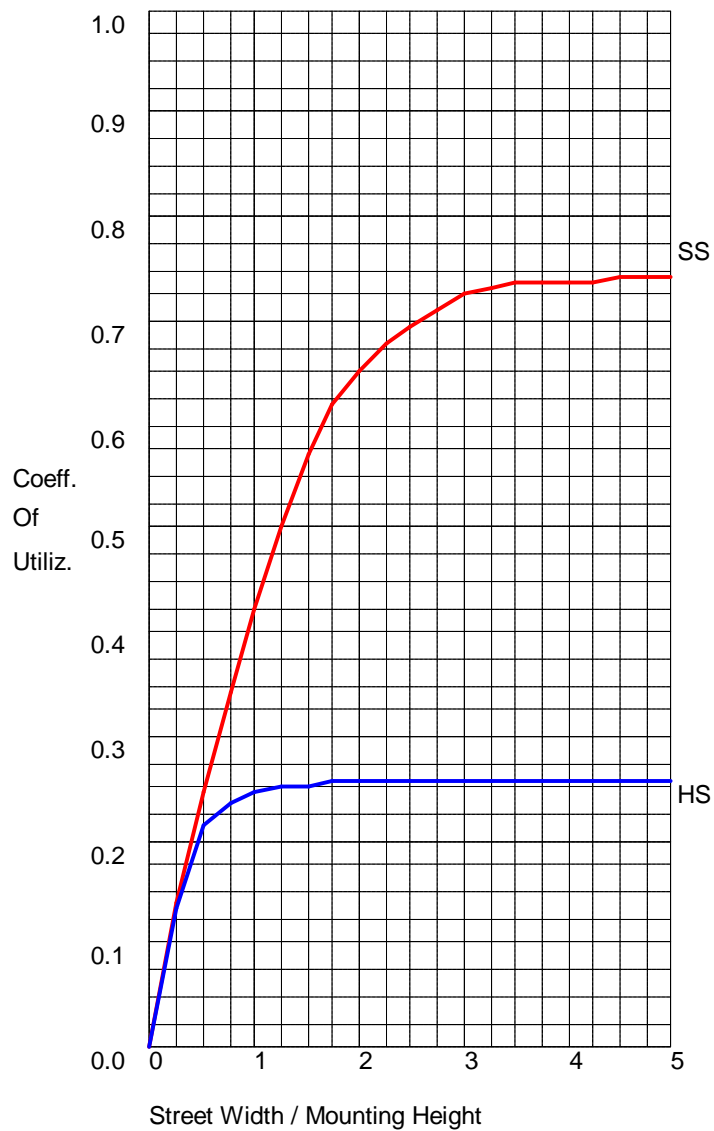
	<b><u>175.0</u></b>	<b><u>180.0</u></b>
0.0	7233	7233
2.5	7179	7216
5.0	6852	6866
7.5	6487	6533
10.0	6329	6375
12.5	6266	6309
15.0	6074	6093
17.5	5502	5511
20.0	4541	4590
22.5	3406	3438
25.0	2275	2295
27.5	1409	1414
30.0	879	845
32.5	634	617
35.0	552	539
37.5	520	498
40.0	502	469
42.5	488	451
45.0	456	419
47.5	407	373
50.0	306	263
52.5	176	146
55.0	133	108
57.5	136	110
60.0	137	121
62.5	131	123
65.0	121	111

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**CANDELA TABULATION - (Cont.)**

<b>67.5</b>	<b>87</b>	<b>80</b>
<b>70.0</b>	<b>59</b>	<b>55</b>
<b>72.5</b>	<b>40</b>	<b>39</b>
<b>75.0</b>	<b>26</b>	<b>24</b>
<b>77.5</b>	<b>18</b>	<b>17</b>
<b>80.0</b>	<b>11</b>	<b>11</b>
<b>82.5</b>	<b>6</b>	<b>6</b>
<b>85.0</b>	<b>2</b>	<b>2</b>
<b>87.5</b>	<b>0</b>	<b>0</b>
<b>90.0</b>	<b>0</b>	<b>0</b>

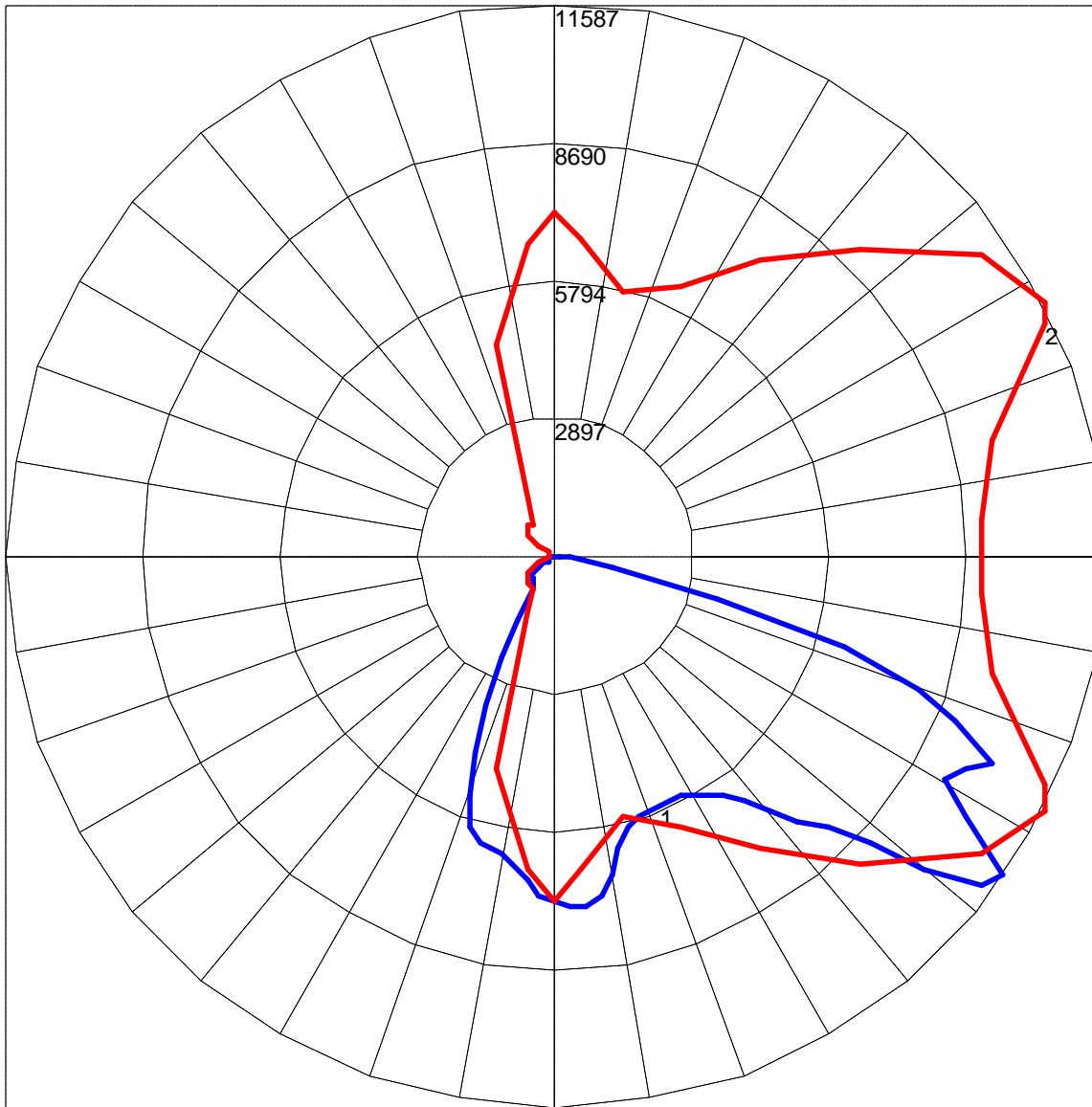
### COEFFICIENTS OF UTILIZATION



### FLUX DISTRIBUTION

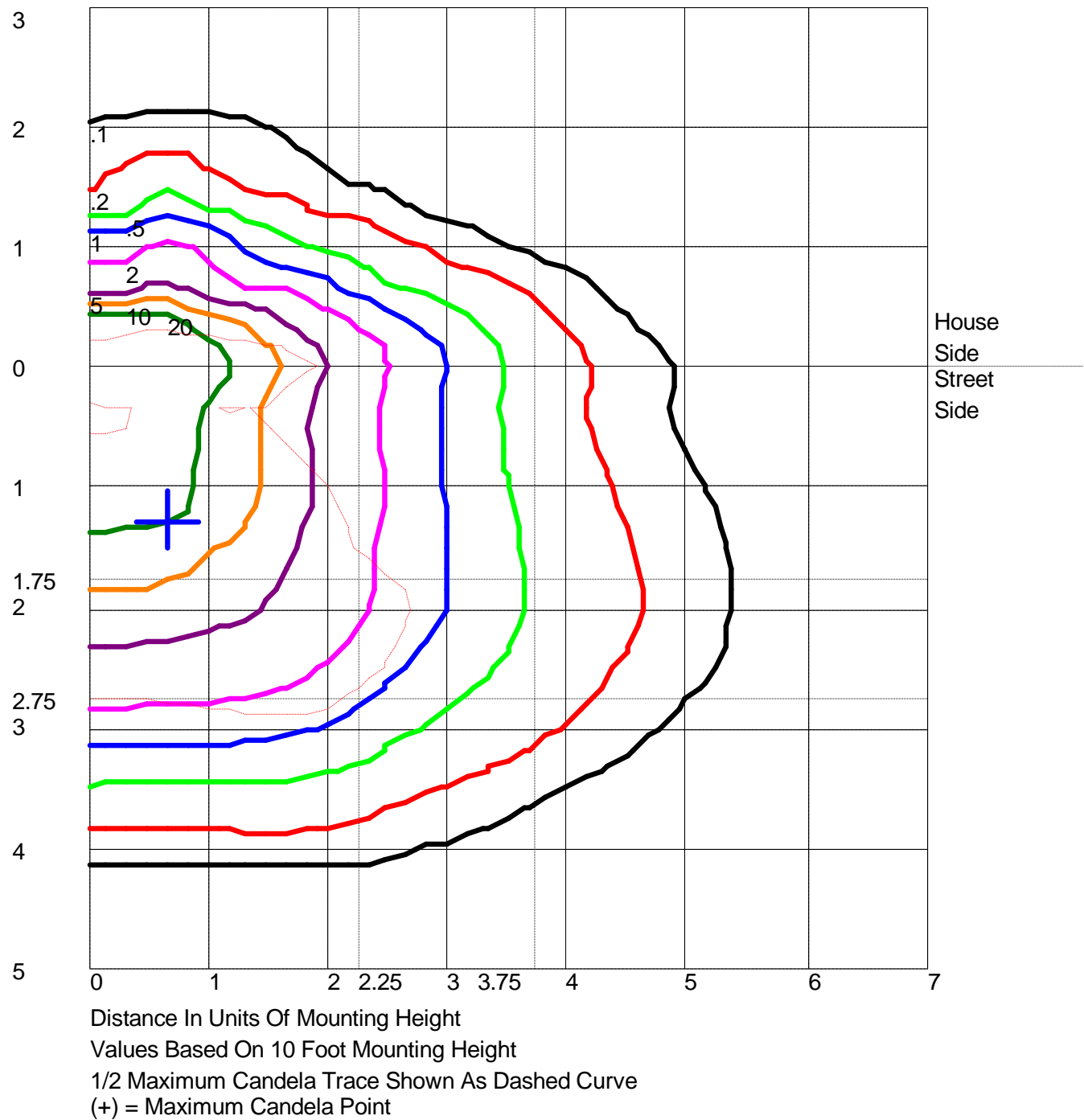
	Lumens	Percent Of Luminaire
Downward Street Side	17088.6	74.2
Downward House Side	5945.0	25.8
Downward Total	23033.6	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	23033.6	100.0

POLAR GRAPH



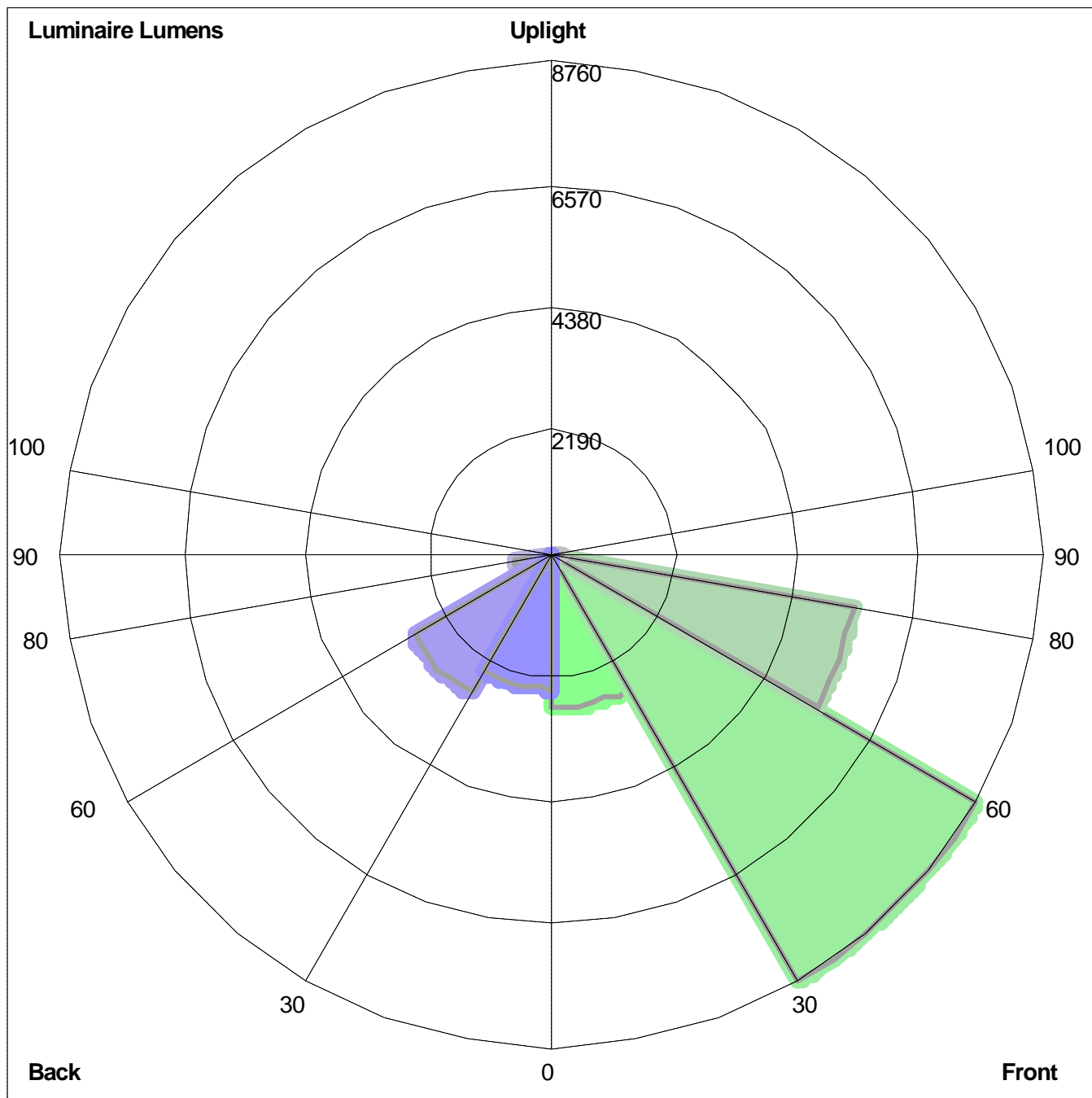
Maximum Candela = 11587 Located At Horizontal Angle = 27.5, Vertical Angle = 55  
# 1 - Vertical Plane Through Horizontal Angles (27.5 - 207.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (55) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=2750.9, Medium=8759.8, High=5447.1, Very High=130.7  
Back: Low=2400.1, Medium=2872.1, High=650.1, Very High=22.7  
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G3