



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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST]LED-5071  
[TESTLAB]LSI INDUSTRIES  
[ISSUE DATE]01/27/14  
[TEST DATE]01/27/14  
[MANUFACTURER]LSI INDUSTRIES  
[LUMEN CATEGORY]XGBM-FT-LED-HO-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	29070
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	300.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	17330
Maximum Candela Angle	25H 52.5V
Maximum Candela (<90 Degrees Vertical)	17330
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	5091 (17.5% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	3684.8	N.A.	12.7
FM - Front-Medium (30-60)	12770.4	N.A.	43.9
FH - Front-High (60-80)	9636.6	N.A.	33.1
FVH - Front-Very High (80-90)	538.6	N.A.	1.9
BL - Back-Low (0-30)	725.5	N.A.	2.5
BM - Back-Medium (30-60)	1218.7	N.A.	4.2
BH - Back-High (60-80)	463.5	N.A.	1.6
BVH - Back-Very High (80-90)	32.1	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	29070.3	N.A.	100.0
BUG Rating	B2-U0-G4		

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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>22.5</b></u>	<u><b>25.0</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>	2570	2570	2570	2570	2570	2570	2570	2570	2570	2570
<b>2.5</b>	3045	3009	2989	2997	2978	2910	2816	2763	2660	2605
<b>5.0</b>	4438	4375	4289	4244	4180	3941	3631	3384	3075	2844
<b>7.5</b>	6576	6488	6427	6167	6039	5544	4895	4310	3691	3166
<b>10.0</b>	8911	8809	8716	8387	8236	7524	6548	5571	4479	3552
<b>12.5</b>	10592	10493	10394	10104	9975	9355	8457	7024	5518	4044
<b>15.0</b>	11540	11474	11446	11312	11233	10763	9931	8584	6661	4692
<b>17.5</b>	11489	11434	11602	11707	11722	11653	11114	9868	7941	5514
<b>20.0</b>	10992	10948	11195	11372	11429	11796	11903	10976	9166	6331
<b>22.5</b>	10329	10297	10615	10758	10831	11402	12143	11866	10291	7221
<b>25.0</b>	9424	9397	9665	9959	10108	10936	11910	12508	11392	8080
<b>27.5</b>	8541	8521	8843	9171	9289	10308	11674	12876	12314	8939
<b>30.0</b>	8216	8172	8255	8396	8515	9670	11402	12808	13030	9773
<b>32.5</b>	8402	8347	8342	8327	8379	9070	10716	12493	13276	10451
<b>35.0</b>	8811	8748	8692	8664	8722	9077	9977	11881	13123	10671
<b>37.5</b>	9588	9480	9251	9193	9245	9460	9361	10830	12388	10919
<b>40.0</b>	11113	10979	10637	10289	10171	9936	9332	9852	11691	11343
<b>42.5</b>	12588	12500	12079	11983	11952	10629	9582	9056	11019	11718
<b>45.0</b>	14033	13940	13767	13735	13650	12200	9961	8839	10140	11597
<b>47.5</b>	14612	14578	14458	15218	15493	13786	10795	8901	9206	11364
<b>50.0</b>	15751	15486	15979	16363	16270	15304	12170	9072	8380	10908
<b>52.5</b>	14991	14969	16191	17246	17330	15804	13520	9410	7910	10264
<b>55.0</b>	14537	14502	15641	16697	16927	16587	14092	10379	7801	9415
<b>57.5</b>	14298	14253	15123	16088	16166	16146	14221	11307	7721	8189
<b>60.0</b>	13474	13462	14868	15894	15854	15040	14233	11953	7647	7013
<b>62.5</b>	13988	13914	15062	14879	14789	14770	13757	11828	8008	6143
<b>65.0</b>	14590	14547	16214	15646	15452	13995	13197	11566	8343	5334
<b>67.5</b>	13992	13961	15614	15711	15732	14563	12149	10462	8432	4999
<b>70.0</b>	13337	13373	14236	14210	14366	14485	11945	9711	8387	4819
<b>72.5</b>	10829	10938	11986	13211	13679	13277	11577	8877	7553	4871
<b>75.0</b>	7294	7441	8334	9820	10430	11241	10272	8607	6728	4643
<b>77.5</b>	4711	4782	5010	5985	6368	7419	7911	7185	5799	4260
<b>80.0</b>	2042	2085	2288	3263	3444	4059	4438	5091	4944	3461
<b>82.5</b>	880	891	936	1084	1128	1387	1887	2387	2943	2370
<b>85.0</b>	84	78	86	91	115	270	400	597	987	1370
<b>87.5</b>	15	15	20	22	25	31	28	45	100	280
<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>	2570	2570	2570	2570	2570	2570	2570	2570	2570	2570
<b>2.5</b>	2541	2509	2471	2419	2380	2345	2327	2313	2309	2302
<b>5.0</b>	2628	2526	2431	2287	2184	2126	2100	2085	2076	2066
<b>7.5</b>	2740	2571	2425	2209	2107	2044	2013	1986	1962	1943
<b>10.0</b>	2877	2635	2433	2183	2072	2007	1945	1912	1869	1823
<b>12.5</b>	3071	2738	2476	2191	2064	1966	1894	1791	1700	1641
<b>15.0</b>	3342	2907	2580	2257	2075	1939	1776	1654	1543	1467
<b>17.5</b>	3661	3108	2719	2361	2134	1893	1678	1502	1376	1275
<b>20.0</b>	3964	3246	2784	2397	2141	1841	1600	1363	1198	1099
<b>22.5</b>	4225	3320	2778	2380	2080	1756	1481	1216	1053	955
<b>25.0</b>	4414	3337	2760	2366	2021	1664	1317	1073	948	875
<b>27.5</b>	4645	3384	2763	2406	1960	1530	1177	969	874	811

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**CANDELA TABULATION - (Cont.)**

30.0	4875	3422	2780	2403	1926	1407	1073	889	803	779
32.5	5055	3407	2774	2379	1883	1311	1005	841	777	777
35.0	5086	3296	2662	2267	1751	1250	959	824	788	804
37.5	5096	3152	2489	2144	1542	1175	934	850	808	753
40.0	5361	3157	2445	1976	1425	1096	943	881	732	591
42.5	5749	3239	2453	1856	1330	994	978	830	564	469
45.0	6067	3324	2500	1778	1288	911	994	666	470	438
47.5	6356	3397	2554	1734	1180	904	845	531	439	409
50.0	6720	3494	2604	1655	1093	916	655	483	405	369
52.5	7061	3644	2685	1562	1020	915	545	430	363	322
55.0	7105	3636	2675	1449	989	792	463	367	307	273
57.5	6936	3488	2556	1336	1015	588	414	301	258	239
60.0	6854	3346	2429	1230	920	533	359	248	224	205
62.5	6745	3199	2270	1146	762	494	296	216	189	176
65.0	6347	3099	2118	1030	639	423	254	185	157	149
67.5	5917	3079	1983	955	605	336	216	155	131	122
70.0	5101	2735	1786	846	541	278	181	126	104	94
72.5	4398	2395	1444	723	423	228	145	95	78	69
75.0	3345	2066	1223	578	330	169	106	72	60	53
77.5	2633	1647	848	492	250	112	74	54	47	41
80.0	1667	1141	556	369	158	71	51	40	34	29
82.5	1002	676	301	225	79	47	38	28	20	15
85.0	637	286	141	84	37	27	22	15	11	8
87.5	205	54	31	20	19	17	14	12	9	7
90.0	0	0	0	0	0	0	0	0	0	0

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

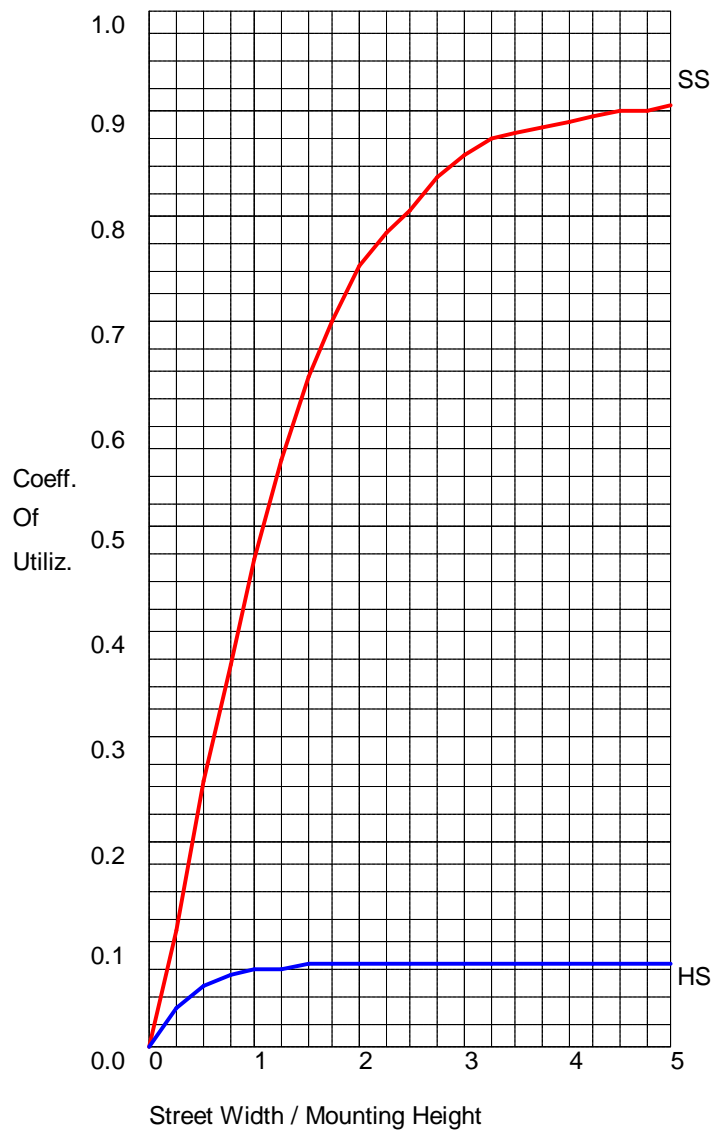
	<u>175.0</u>	<u>180.0</u>
0.0	2570	2570
2.5	2298	2285
5.0	2063	2050
7.5	1937	1924
10.0	1788	1786
12.5	1610	1606
15.0	1428	1425
17.5	1227	1225
20.0	1049	1046
22.5	910	897
25.0	828	817
27.5	772	763
30.0	751	745
32.5	767	763
35.0	781	771
37.5	682	667
40.0	505	492
42.5	418	411
45.0	389	381
47.5	355	346
50.0	316	304
52.5	271	252
55.0	237	218
57.5	214	195
60.0	189	170
62.5	164	149
65.0	140	127

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**CANDELA TABULATION - (Cont.)**

<b>67.5</b>	114	103
<b>70.0</b>	85	78
<b>72.5</b>	64	57
<b>75.0</b>	48	45
<b>77.5</b>	38	37
<b>80.0</b>	26	25
<b>82.5</b>	12	12
<b>85.0</b>	5	5
<b>87.5</b>	4	3
<b>90.0</b>	0	0

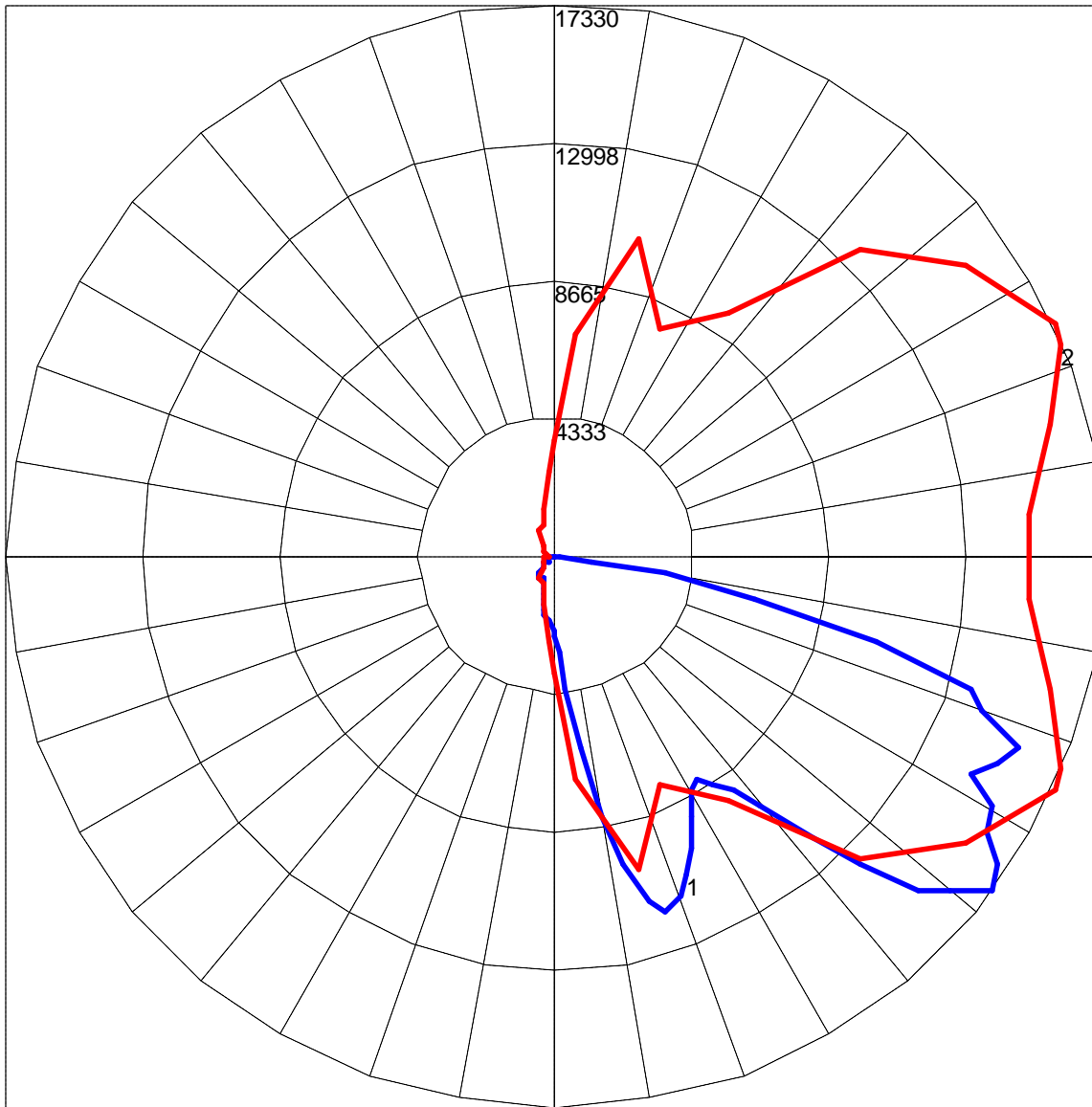
### COEFFICIENTS OF UTILIZATION



### FLUX DISTRIBUTION

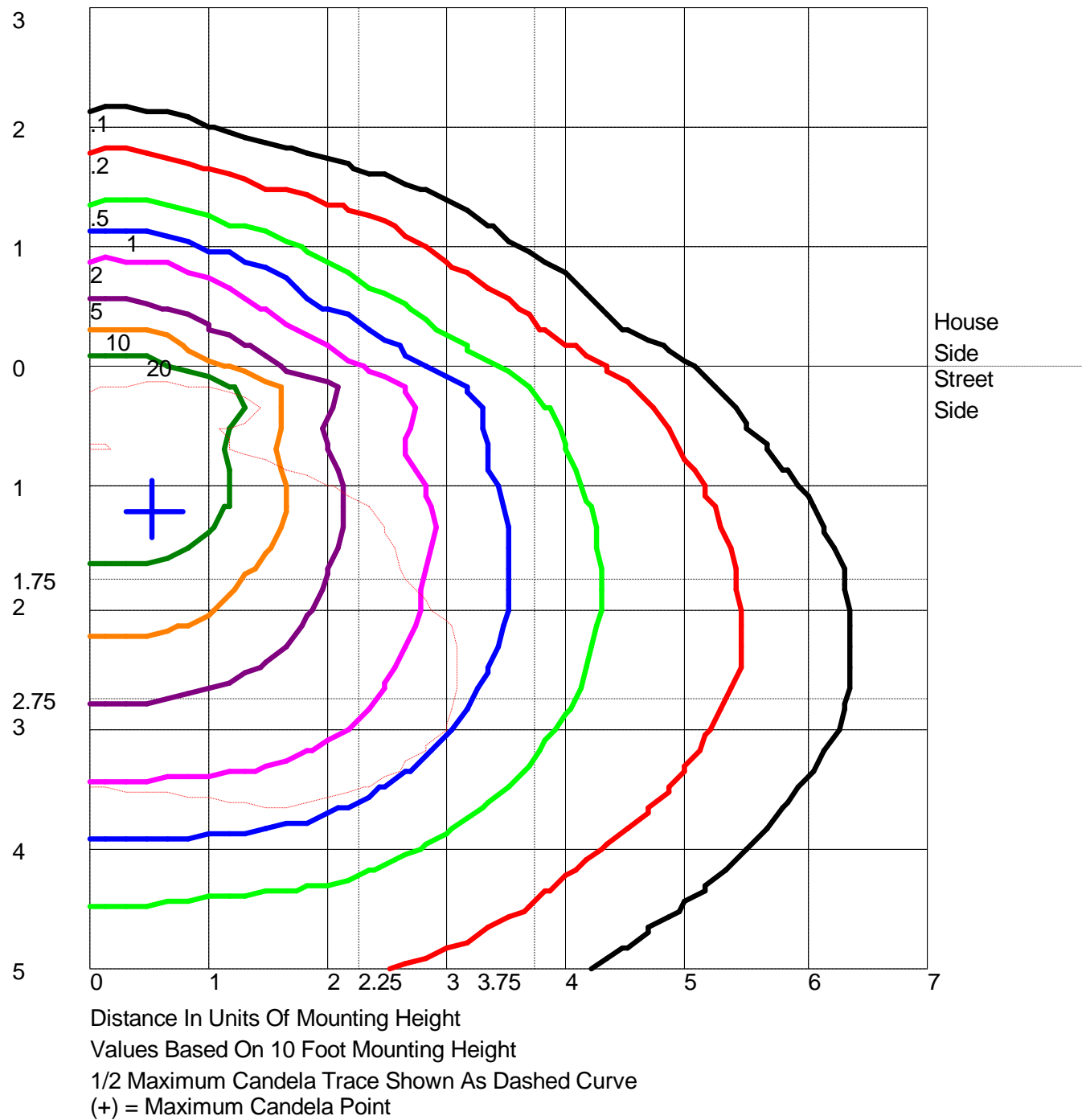
	Lumens	Percent Of Luminaire
Downward Street Side	26630.5	91.6
Downward House Side	2439.8	8.4
Downward Total	29070.3	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	29070.3	100.0

POLAR GRAPH



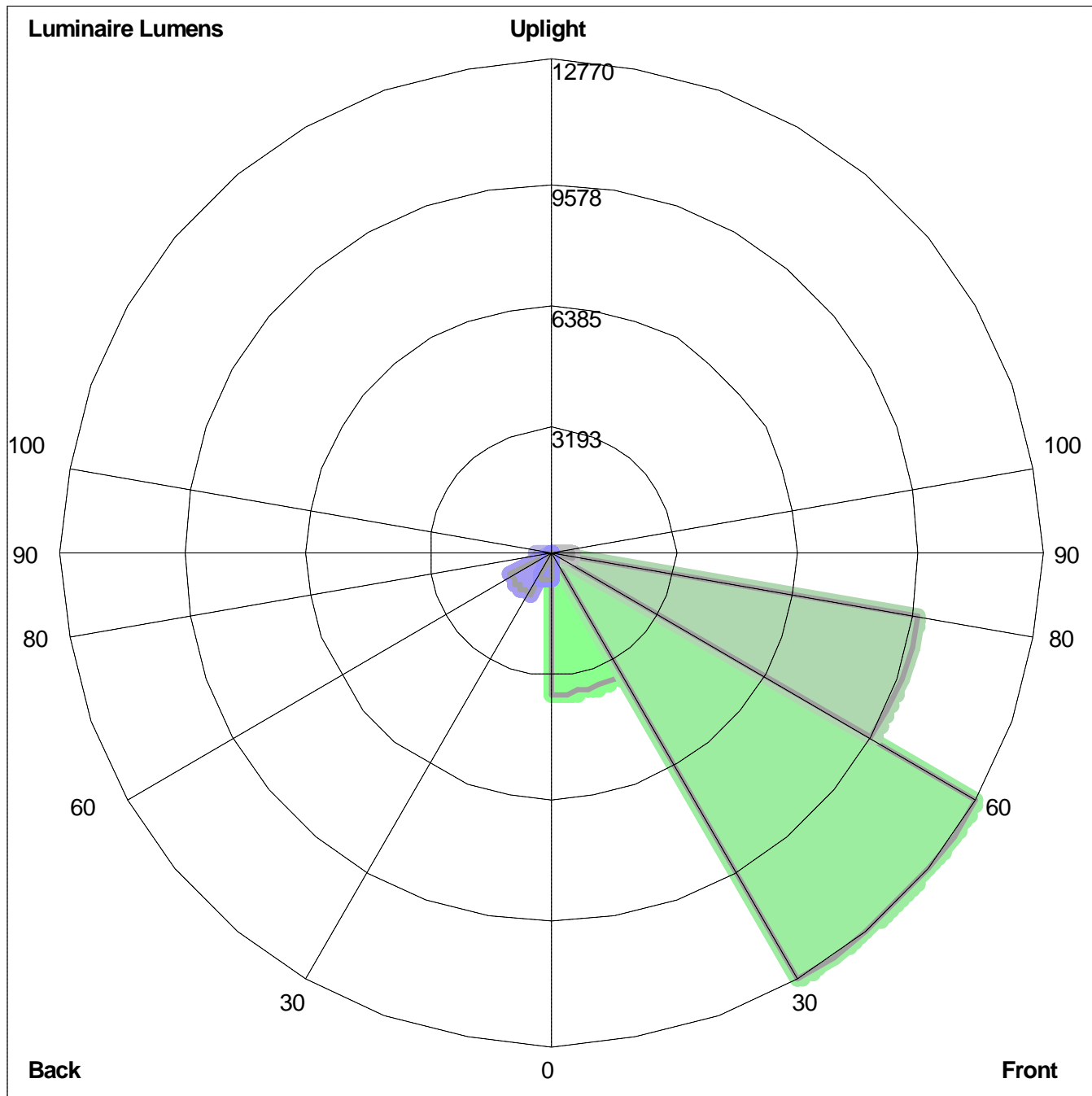
Maximum Candela = 17330 Located At Horizontal Angle = 25, Vertical Angle = 52.5  
# 1 - Vertical Plane Through Horizontal Angles (25 - 205) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (52.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=3684.8, Medium=12770.4, High=9636.6, Very High=538.6  
Back: Low=725.5, Medium=1218.7, High=463.5, Very High=32.1  
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G4