



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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST]LED-5336  
[TESTLAB]LSI INDUSTRIES  
[ISSUE DATE]03/25/14  
[TEST DATE]03/25/14  
[MANUFACTURER]LSI INDUSTRIES  
[LUMEN CATEGORY]XGBM-3-LED-HO-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	22240
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	77
Total Luminaire Watts	288.6
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	12660
Maximum Candela Angle	52.5H 55V
Maximum Candela (<90 Degrees Vertical)	12660
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	2110 (9.5% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2957.6	N.A.	13.3
FM - Front-Medium (30-60)	9972.8	N.A.	44.8
FH - Front-High (60-80)	4545.5	N.A.	20.4
FVH - Front-Very High (80-90)	140.1	N.A.	0.6
BL - Back-Low (0-30)	1726.0	N.A.	7.8
BM - Back-Medium (30-60)	2123.6	N.A.	9.5
BH - Back-High (60-80)	751.0	N.A.	3.4
BVH - Back-Very High (80-90)	23.8	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	22240.4	N.A.	100.0
BUG Rating	B3-U0-G2		

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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>35.0</b></u>	<u><b>45.0</b></u>	<u><b>52.5</b></u>	<u><b>55.0</b></u>	<u><b>65.0</b></u>	<u><b>75.0</b></u>
<b>0.0</b>	4225	4225	4225	4225	4225	4225	4225	4225	4225	4225
<b>2.5</b>	4226	4244	4240	4255	4256	4273	4291	4274	4305	4312
<b>5.0</b>	4255	4269	4283	4341	4417	4520	4602	4601	4724	4778
<b>7.5</b>	4262	4285	4360	4525	4762	5018	5195	5288	5435	5552
<b>10.0</b>	4390	4437	4580	4904	5289	5659	5917	5994	6190	6324
<b>12.5</b>	4738	4768	4994	5462	5956	6376	6621	6676	6844	6895
<b>15.0</b>	5160	5207	5556	6189	6727	7063	7194	7209	7222	7163
<b>17.5</b>	5624	5708	6320	7094	7659	7645	7556	7494	7356	7192
<b>20.0</b>	6031	6151	7043	8057	8553	8187	7793	7624	7256	7081
<b>22.5</b>	6288	6454	7657	8955	9268	8714	7881	7601	7140	7046
<b>25.0</b>	6250	6464	7945	9373	9656	8975	8013	7655	6917	6870
<b>27.5</b>	6013	6272	7973	9346	9626	9052	8104	7718	6639	6486
<b>30.0</b>	5818	6151	7998	9167	9272	8985	8270	7881	6524	6140
<b>32.5</b>	5683	6094	8072	9022	8959	8820	8466	8150	6677	6038
<b>35.0</b>	5482	5984	8087	8871	8754	8614	8527	8346	7119	6151
<b>37.5</b>	5391	5943	8240	8716	8703	8416	8457	8433	7631	6409
<b>40.0</b>	5519	6164	8548	8776	8898	8396	8399	8427	8187	6974
<b>42.5</b>	5943	6738	8873	8953	9312	8765	8456	8504	9021	7969
<b>45.0</b>	6585	7338	9191	9154	9600	9488	8766	8854	10116	9131
<b>47.5</b>	7182	7919	9458	9288	9824	10463	9606	9561	11039	9824
<b>50.0</b>	7138	8010	9455	9375	9960	11398	10797	10524	11210	10174
<b>52.5</b>	6726	7651	8719	8981	10002	11874	11987	11698	11206	10155
<b>55.0</b>	6277	7104	7945	8186	9647	11909	12660	12406	10861	9592
<b>57.5</b>	4981	5576	6330	7359	8833	11662	12512	12351	10350	9426
<b>60.0</b>	4281	4706	4995	5709	7977	10551	11952	11974	10031	8706
<b>62.5</b>	3174	3529	3904	4715	6356	9259	10751	10587	9404	8729
<b>65.0</b>	1646	1919	2270	3412	5309	7385	8875	9139	9743	9267
<b>67.5</b>	1209	1299	1565	2068	3790	5878	7908	8591	9766	9077
<b>70.0</b>	229	267	487	1271	2472	5409	7073	7524	8392	8252
<b>72.5</b>	129	156	204	383	1734	4510	6268	6465	7544	7473
<b>75.0</b>	97	117	166	294	1264	3613	4768	5151	5702	5390
<b>77.5</b>	58	70	101	217	975	2472	3307	3436	3720	3892
<b>80.0</b>	39	44	62	131	493	1319	1782	1902	2110	1876
<b>82.5</b>	20	24	34	58	187	433	670	672	848	647
<b>85.0</b>	8	10	14	18	28	86	170	179	205	198
<b>87.5</b>	0	1	3	4	6	8	17	26	46	30
<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>	4225	4225	4225	4225	4225	4225	4225	4225	4225	4225
<b>2.5</b>	4298	4290	4284	4269	4238	4215	4194	4144	4112	4099
<b>5.0</b>	4790	4778	4763	4689	4576	4428	4277	4113	3968	3883
<b>7.5</b>	5573	5561	5541	5390	5137	4834	4522	4175	3871	3664
<b>10.0</b>	6350	6320	6274	6044	5665	5207	4767	4316	3892	3540
<b>12.5</b>	6897	6845	6778	6465	5968	5452	5012	4480	3926	3426
<b>15.0</b>	7127	7049	6956	6540	6011	5569	5123	4480	3749	3133
<b>17.5</b>	7105	7009	6867	6367	5848	5449	4934	4112	3330	2731
<b>20.0</b>	7022	6886	6673	6096	5625	5127	4328	3440	2840	2413
<b>22.5</b>	6934	6735	6447	5857	5371	4525	3580	2781	2449	2240
<b>25.0</b>	6703	6508	6228	5702	5071	3866	2867	2336	2279	2211
<b>27.5</b>	6341	6185	6047	5593	4693	3245	2375	2179	2211	2088

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**CANDELA TABULATION - (Cont.)**

30.0	6089	5986	5929	5468	4174	2686	2152	2109	2043	1833
32.5	5999	5958	5933	5329	3560	2137	2062	1953	1738	1410
35.0	6075	6004	5951	5171	2876	1669	1831	1656	1368	1073
37.5	6293	6180	6066	4982	2376	1377	1496	1244	1052	840
40.0	6741	6577	6357	4704	2007	1257	1163	926	793	705
42.5	7468	7325	6918	4392	1714	1153	920	733	665	603
45.0	8092	7965	7455	4042	1661	986	743	617	594	543
47.5	8264	8222	7673	3543	1613	884	657	491	532	422
50.0	8323	8367	7742	3045	1410	806	607	428	364	243
52.5	7880	8007	7404	2619	1141	730	558	355	218	167
55.0	7178	7569	7057	2194	938	650	558	270	177	152
57.5	6753	6995	6719	1774	814	598	428	222	156	143
60.0	6125	6427	6401	1445	733	544	284	207	153	136
62.5	6100	6667	6358	1252	608	465	247	176	148	128
65.0	6478	6985	6144	1122	504	292	250	170	148	114
67.5	6336	6431	5667	925	405	253	238	182	146	86
70.0	6112	5820	5281	759	289	259	219	157	110	76
72.5	5467	5068	4443	594	255	264	193	111	83	64
75.0	4168	3634	2975	359	225	235	160	93	72	64
77.5	3097	2546	1832	202	202	174	123	75	65	51
80.0	1563	1220	807	93	153	107	67	48	43	27
82.5	617	484	290	45	63	38	30	22	23	18
85.0	179	152	93	18	13	12	12	9	12	9
87.5	22	14	8	7	8	8	7	6	5	3
90.0	0	0	0	0	0	0	0	0	0	0

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

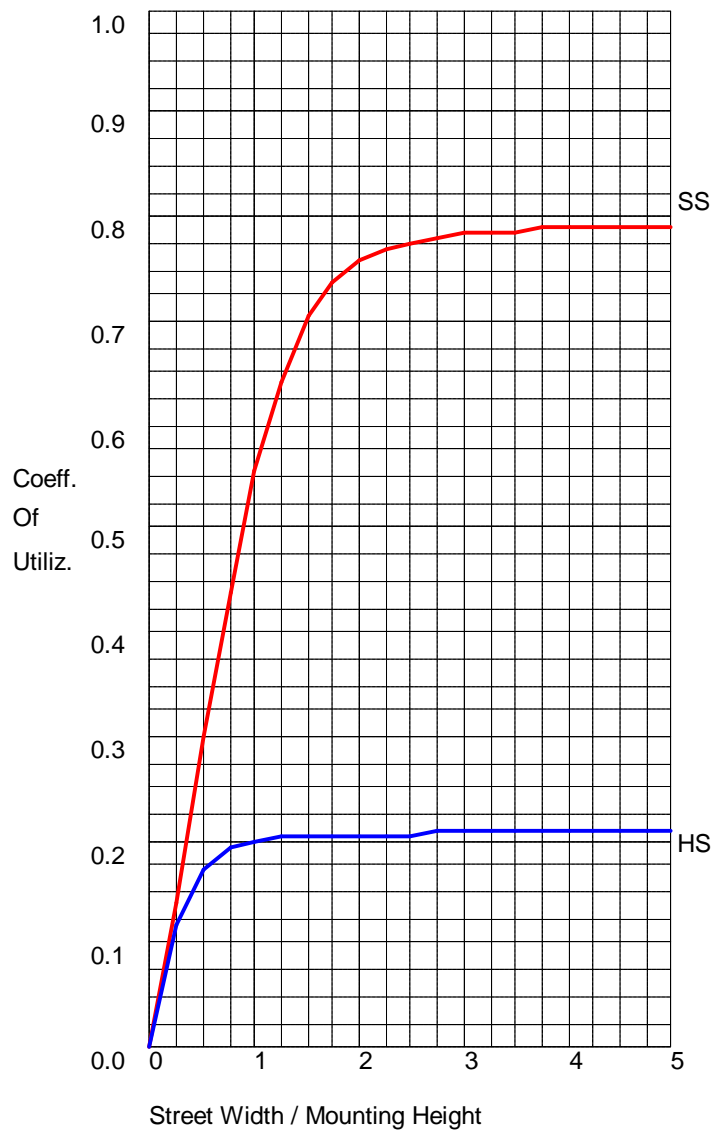
	<b>175.0</b>	<b>180.0</b>
0.0	4225	4225
2.5	4092	4119
5.0	3830	3863
7.5	3547	3569
10.0	3350	3357
12.5	3125	3096
15.0	2771	2737
17.5	2412	2391
20.0	2187	2175
22.5	2103	2107
25.0	2059	2053
27.5	1870	1843
30.0	1538	1489
32.5	1113	1056
35.0	781	724
37.5	573	529
40.0	481	442
42.5	429	390
45.0	382	336
47.5	268	224
50.0	173	140
52.5	148	122
55.0	142	110
57.5	141	107
60.0	143	108
62.5	129	99
65.0	109	83

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**CANDELA TABULATION - (Cont.)**

<b>67.5</b>	90	83
<b>70.0</b>	62	66
<b>72.5</b>	48	45
<b>75.0</b>	46	42
<b>77.5</b>	32	31
<b>80.0</b>	19	16
<b>82.5</b>	12	8
<b>85.0</b>	7	2
<b>87.5</b>	1	0
<b>90.0</b>	0	0

### COEFFICIENTS OF UTILIZATION

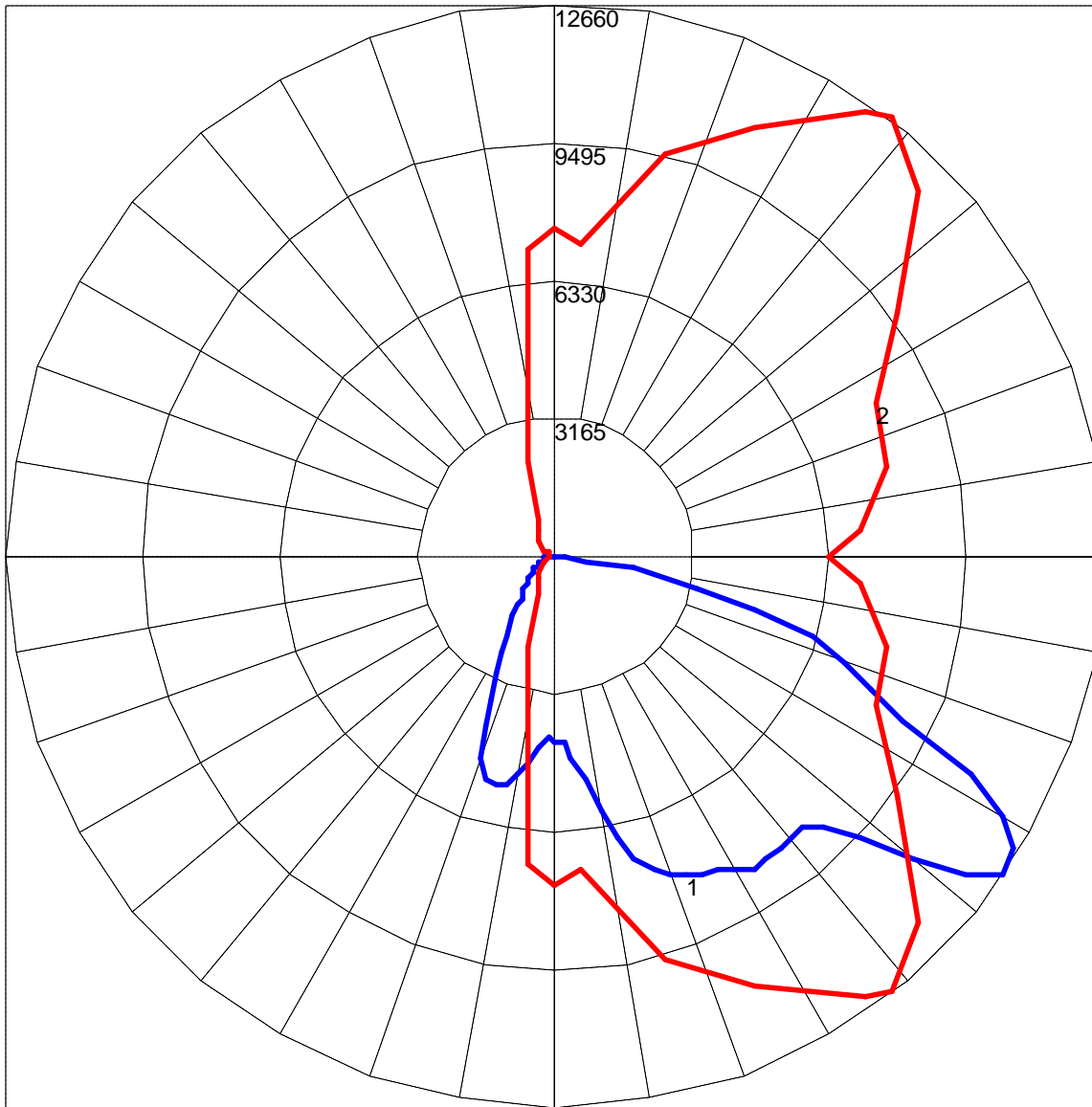


### FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	17616.0	79.2
Downward House Side	4624.4	20.8
Downward Total	22240.4	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	22240.4	100.0

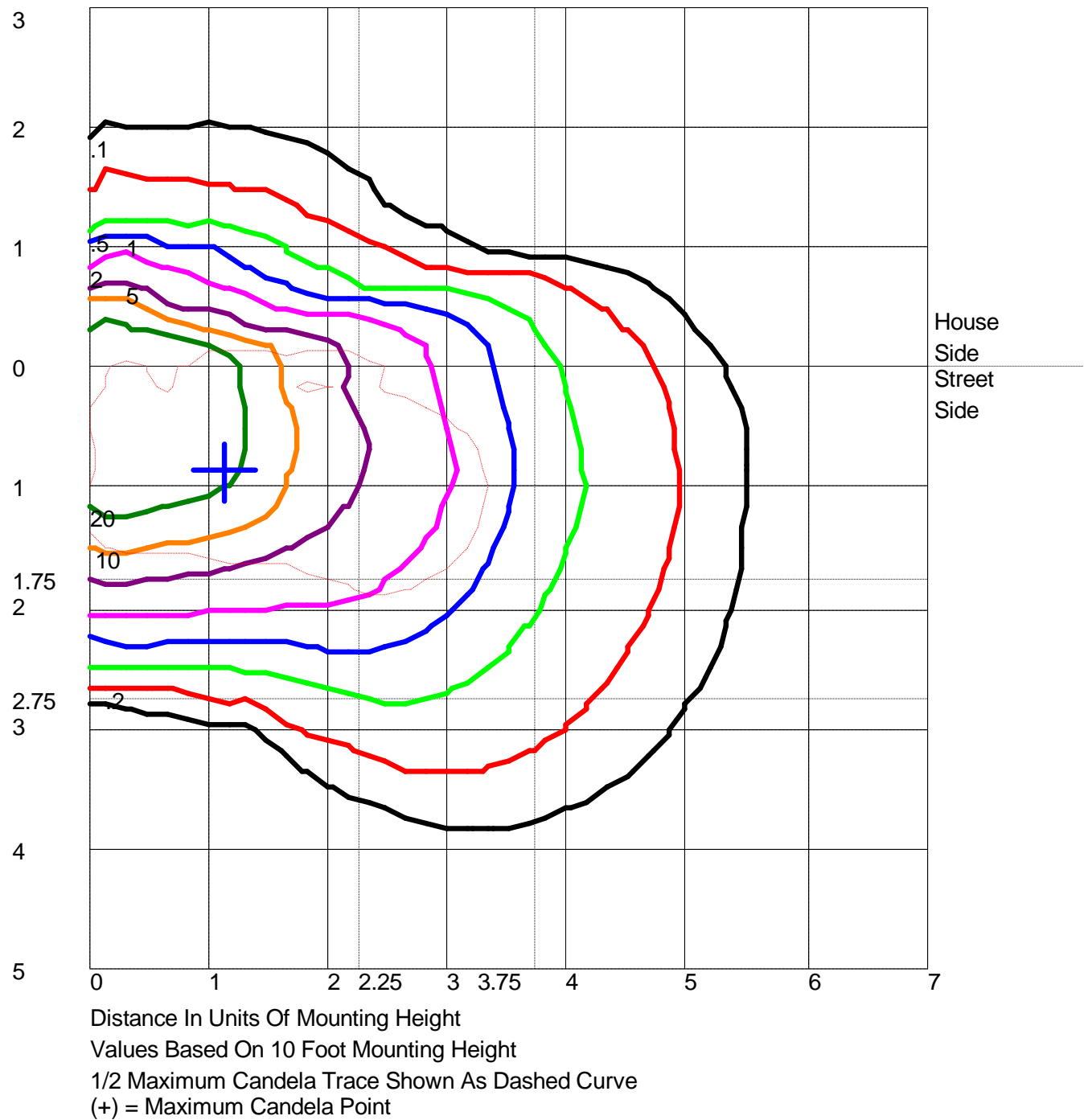
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POLAR GRAPH



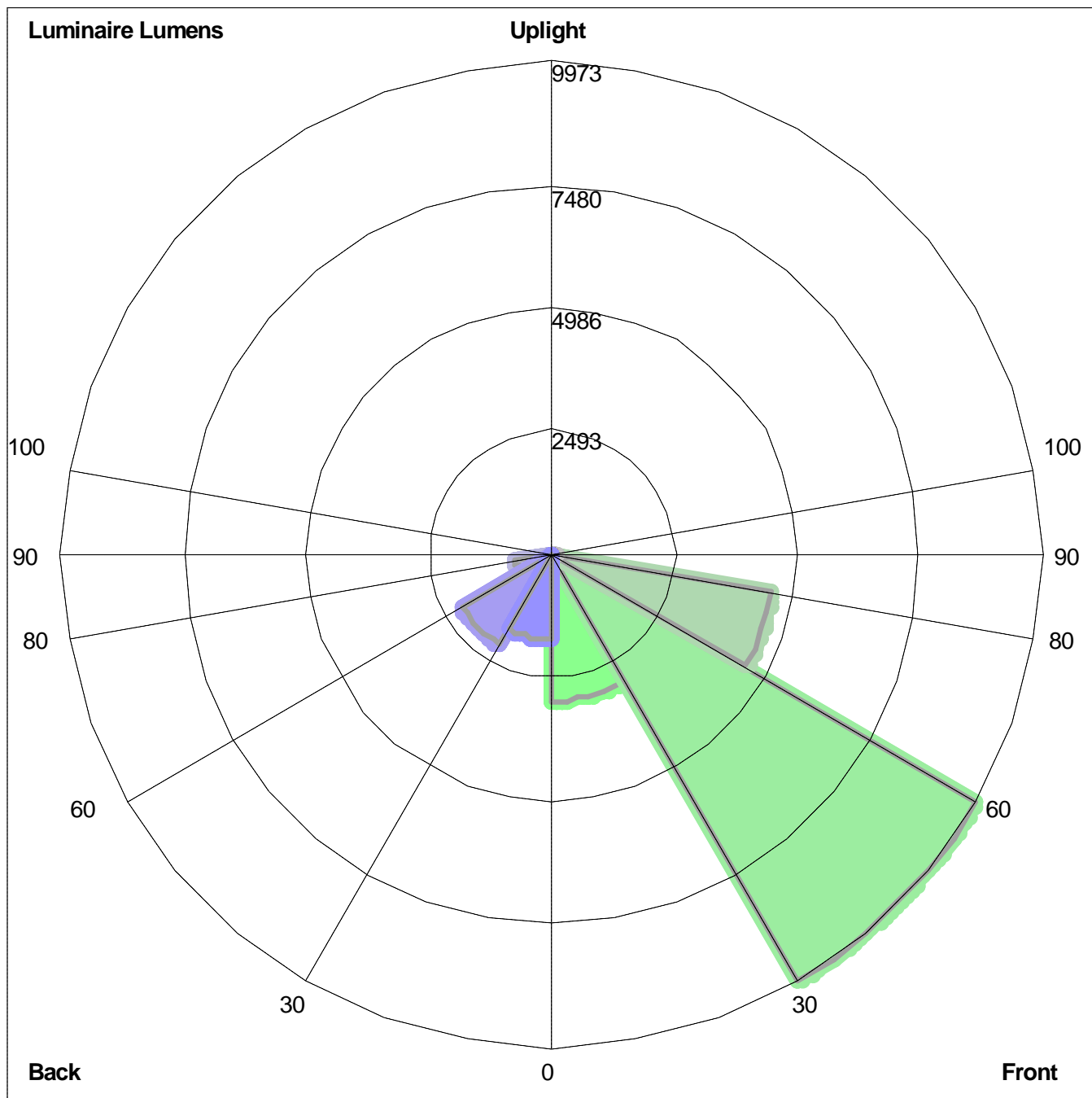
Maximum Candela = 12660 Located At Horizontal Angle = 52.5, Vertical Angle = 55  
# 1 - Vertical Plane Through Horizontal Angles (52.5 - 232.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (55) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=2957.6, Medium=9972.8, High=4545.5, Very High=140.1  
Back: Low= 1726.0, Medium=2123.6, High=751.0, Very High=23.8  
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G2