



IES ROAD REPORT  
PHOTOMETRIC FILENAME : XGBM-FT-LED-SS-NW.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST]LED-5344  
[TESTLAB]LSI INDUSTRIES  
[ISSUE DATE]03/26/14  
[TEST DATE]03/26/14  
[MANUFACTURER]LSI INDUSTRIES  
[LUMEN CATEGORY]XGBM-FT-LED-SS-NW  
[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	17230
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	91
Total Luminaire Watts	189
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	10297
Maximum Candela Angle	25H 52.5V
Maximum Candela (<90 Degrees Vertical)	10297
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	2967 (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)	2242.1	N.A.	13.0
FM - Front-Medium (30-60)	7599.6	N.A.	44.1
FH - Front-High (60-80)	5633.8	N.A.	32.7
FVH - Front-Very High (80-90)	296.0	N.A.	1.7
BL - Back-Low (0-30)	433.6	N.A.	2.5
BM - Back-Medium (30-60)	730.6	N.A.	4.2
BH - Back-High (60-80)	274.0	N.A.	1.6
BVH - Back-Very High (80-90)	20.5	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	17230.2	N.A.	100.0
BUG Rating	B1-U0-G3		

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**CANDELA TABULATION**

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>5.0</u>	<u>15.0</u>	<u>22.5</u>	<u>25.0</u>	<u>35.0</u>	<u>45.0</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	1510	1510	1510	1510	1510	1510	1510	1510	1510	1510
2.5	1813	1803	1796	1771	1751	1726	1667	1620	1573	1530
5.0	2726	2766	2663	2574	2525	2404	2206	2025	1847	1685
7.5	4096	4139	3963	3791	3769	3428	3060	2620	2234	1892
10.0	5487	5545	5422	5235	5120	4675	4102	3402	2734	2142
12.5	6496	6568	6462	6305	6206	5850	5208	4319	3392	2477
15.0	6955	7044	7013	6987	6938	6687	6173	5312	4108	2889
17.5	6887	6972	7048	7158	7170	7128	6881	6155	4889	3374
20.0	6596	6682	6794	6917	6939	7144	7258	6803	5620	3872
22.5	6128	6213	6376	6520	6562	6902	7365	7308	6346	4411
25.0	5594	5676	5832	5980	6048	6611	7221	7635	6999	4927
27.5	5023	5094	5251	5475	5558	6166	7076	7770	7539	5431
30.0	4872	4926	4956	5022	5075	5762	6810	7713	7889	5908
32.5	5010	5050	5009	5022	5053	5414	6381	7487	8007	6326
35.0	5274	5321	5255	5250	5259	5452	5892	7044	7834	6446
37.5	5859	5882	5678	5575	5609	5692	5577	6422	7361	6565
40.0	6758	6801	6612	6310	6268	5993	5580	5798	6929	6805
42.5	7642	7688	7417	7371	7352	6487	5727	5365	6494	6961
45.0	8387	8462	8423	8552	8374	7494	5974	5261	5938	6817
47.5	8694	8768	8776	9326	9371	8419	6561	5299	5353	6603
50.0	9074	9208	9500	9887	9794	9252	7353	5407	4883	6381
52.5	8692	8820	9487	10293	10297	9403	8097	5666	4654	5964
55.0	8217	8389	9057	9771	9863	9743	8355	6222	4603	5512
57.5	8121	8239	8828	9305	9324	9282	8352	6730	4583	4716
60.0	7751	7848	8724	9282	9204	8765	8354	7048	4507	4053
62.5	8223	8287	9047	8925	8760	8560	7892	6849	4708	3518
65.0	8711	8796	9670	9411	9165	8211	7403	6575	4871	3084
67.5	8362	8469	9342	9478	9474	8667	6875	5835	4887	2909
70.0	8037	8153	8721	8730	8782	8682	6814	5369	4779	2858
72.5	6515	6620	7136	7863	8204	7860	6715	5074	4266	2886
75.0	4102	4295	4861	5735	6095	6505	6047	4993	3748	2656
77.5	2667	2730	2976	3434	3626	4223	4497	4211	3311	2436
80.0	1075	1101	1196	1754	1876	2333	2451	2967	2835	1937
82.5	454	467	496	570	599	738	898	1271	1696	1345
85.0	41	41	41	40	45	101	208	294	558	770
87.5	10	10	13	14	14	16	17	20	42	132
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	1510	1510	1510	1510	1510	1510	1510	1510	1510	1510
2.5	1489	1471	1450	1420	1388	1367	1363	1355	1353	1341
5.0	1541	1480	1421	1333	1274	1235	1212	1208	1197	1195
7.5	1608	1505	1414	1288	1220	1185	1167	1157	1142	1133
10.0	1692	1543	1420	1269	1202	1168	1133	1122	1102	1081
12.5	1822	1611	1452	1274	1202	1150	1116	1062	1013	987
15.0	1995	1715	1514	1318	1213	1152	1056	989	935	896
17.5	2187	1836	1601	1381	1257	1128	1013	913	841	793
20.0	2362	1914	1633	1410	1272	1108	977	838	739	684
22.5	2527	1965	1636	1396	1242	1062	915	755	654	598
25.0	2647	1979	1618	1390	1211	1014	818	670	585	540
27.5	2784	1993	1616	1414	1183	945	735	597	542	501

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**CANDELA TABULATION - (Cont.)**

30.0	2921	2010	1628	1413	1169	875	666	552	499	479
32.5	3050	2014	1628	1417	1147	815	622	522	477	475
35.0	3068	1935	1550	1339	1068	770	594	507	478	488
37.5	3051	1848	1453	1262	956	721	573	515	491	468
40.0	3193	1849	1420	1175	871	670	578	535	455	370
42.5	3410	1892	1427	1112	817	596	595	518	353	291
45.0	3591	1942	1458	1073	769	550	609	418	290	268
47.5	3747	1982	1487	1044	705	535	524	325	268	251
50.0	3948	2046	1517	1006	664	541	420	294	246	225
52.5	4133	2127	1563	951	620	544	328	260	218	194
55.0	4157	2116	1544	884	594	453	285	221	184	161
57.5	3991	2023	1486	812	598	343	249	181	152	139
60.0	3890	1939	1415	744	549	319	215	148	131	121
62.5	3855	1872	1318	692	448	299	179	127	111	103
65.0	3645	1808	1231	624	384	255	150	110	94	88
67.5	3345	1779	1151	568	360	205	128	92	78	73
70.0	2889	1578	1043	499	319	170	109	76	63	57
72.5	2472	1394	849	412	258	138	89	58	48	42
75.0	1873	1196	724	345	197	103	65	44	36	31
77.5	1517	962	509	280	151	70	46	34	28	23
80.0	996	698	354	211	98	46	32	25	19	16
82.5	585	394	187	135	51	31	24	19	14	11
85.0	380	170	90	56	25	20	17	13	10	8
87.5	138	36	21	16	14	12	11	10	9	7
90.0	0	0	0	0	0	0	0	0	0	0

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

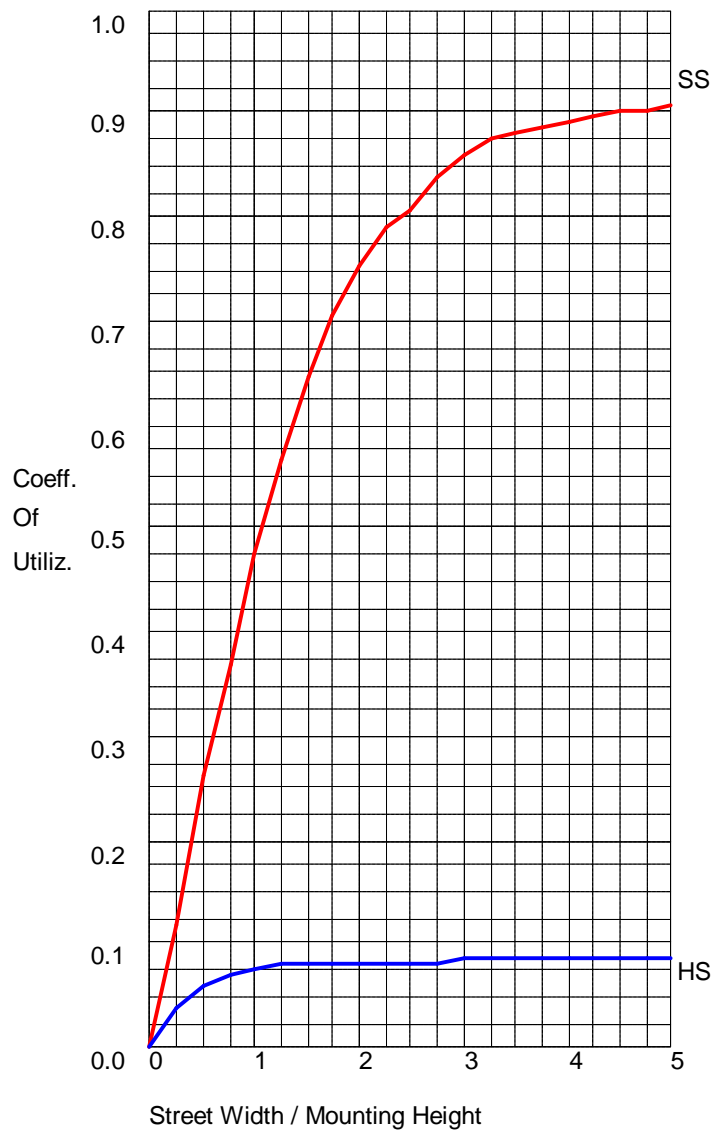
	<b><u>175.0</u></b>	<b><u>180.0</u></b>
0.0	1510	1510
2.5	1346	1343
5.0	1193	1192
7.5	1130	1127
10.0	1064	1069
12.5	969	972
15.0	874	877
17.5	762	754
20.0	654	646
22.5	562	560
25.0	509	507
27.5	475	473
30.0	460	458
32.5	465	463
35.0	477	475
37.5	432	425
40.0	315	314
42.5	258	252
45.0	239	233
47.5	217	210
50.0	189	181
52.5	162	153
55.0	138	128
57.5	123	112
60.0	109	98
62.5	96	86
65.0	83	73

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**CANDELA TABULATION - (Cont.)**

<b>67.5</b>	69	60
<b>70.0</b>	52	46
<b>72.5</b>	38	34
<b>75.0</b>	27	26
<b>77.5</b>	21	20
<b>80.0</b>	14	13
<b>82.5</b>	9	8
<b>85.0</b>	7	7
<b>87.5</b>	6	6
<b>90.0</b>	0	0

### COEFFICIENTS OF UTILIZATION

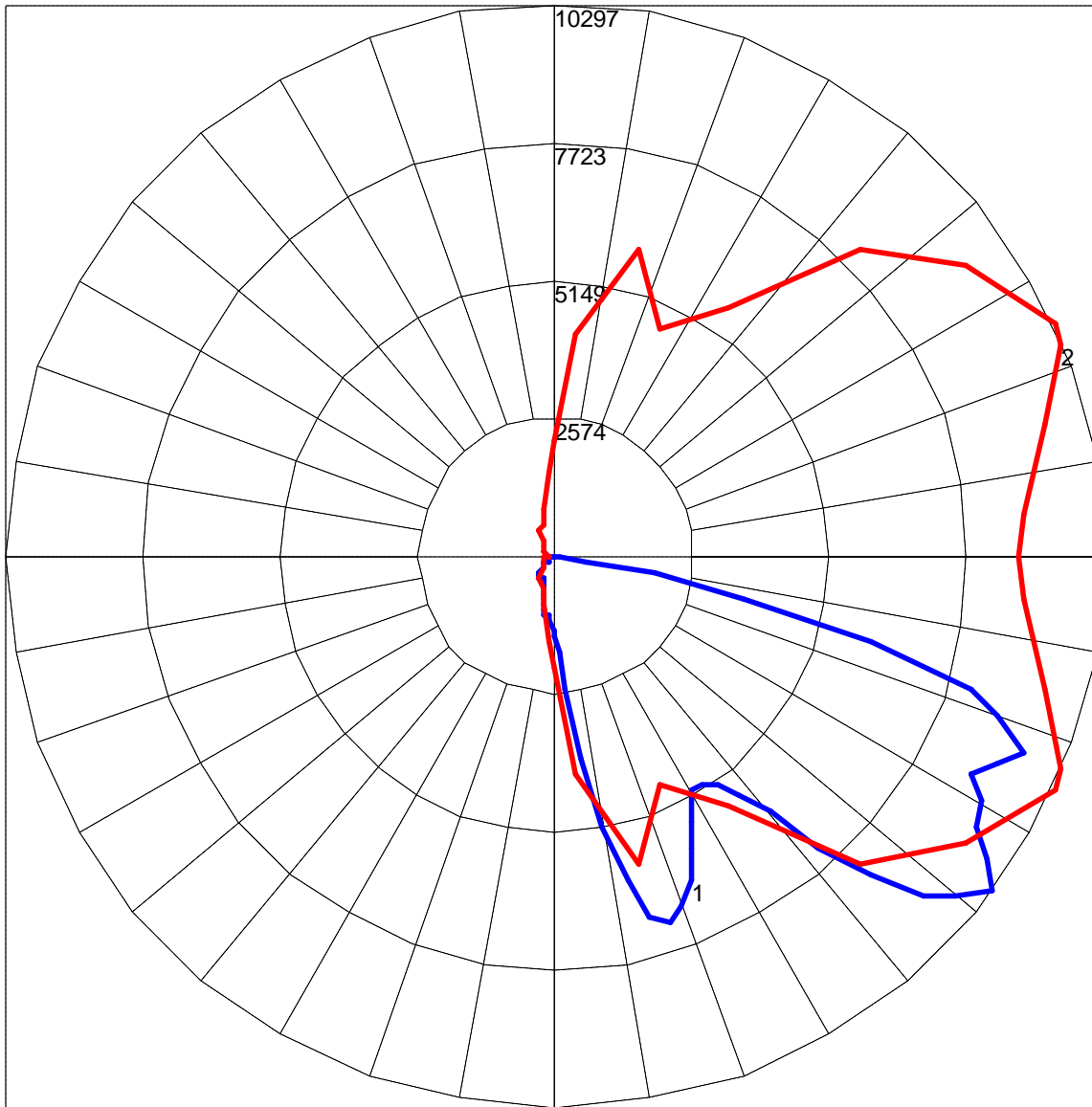


### FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	15771.5	91.5
Downward House Side	1458.7	8.5
Downward Total	17230.2	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	17230.2	100.0

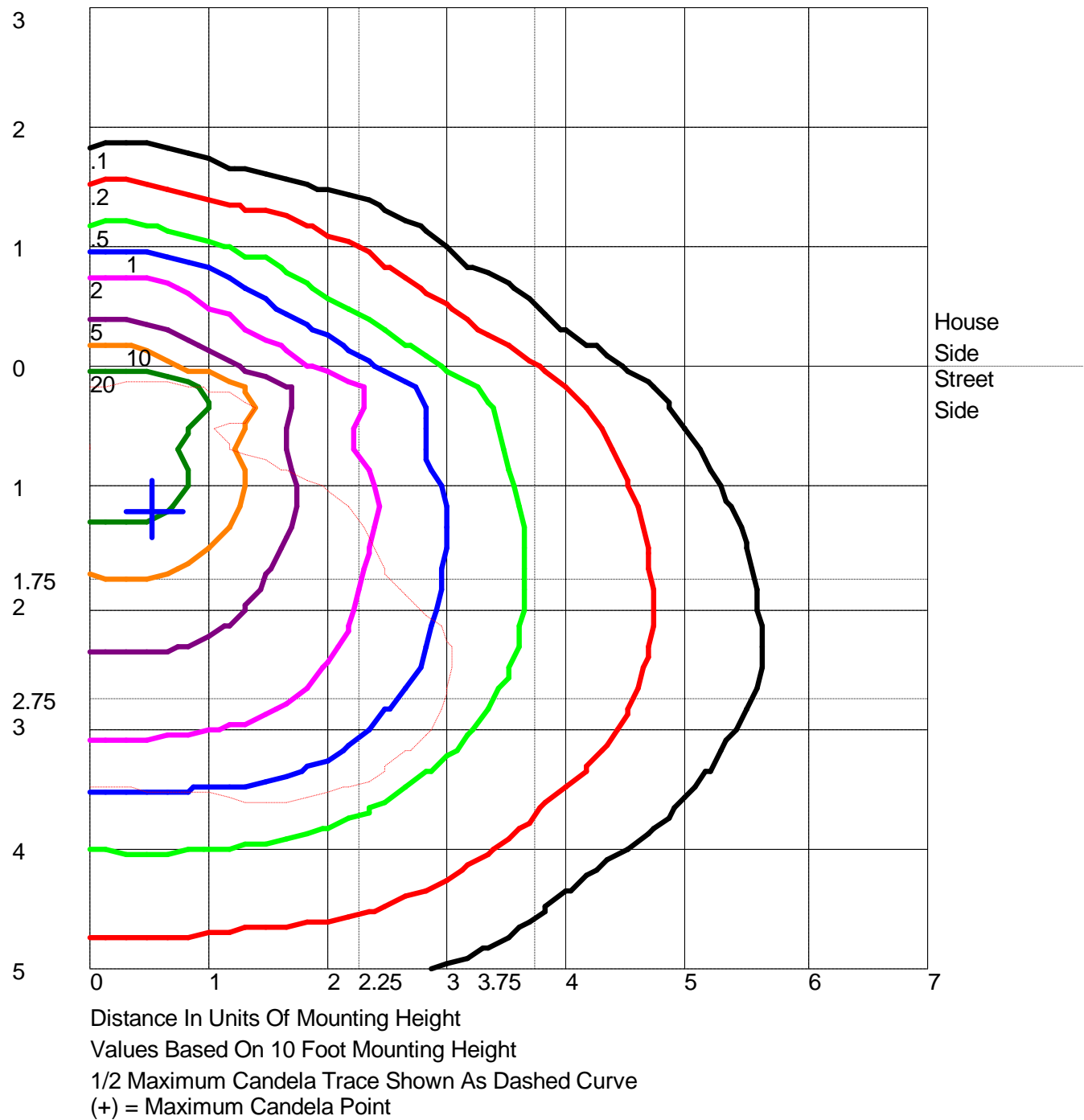
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POLAR GRAPH



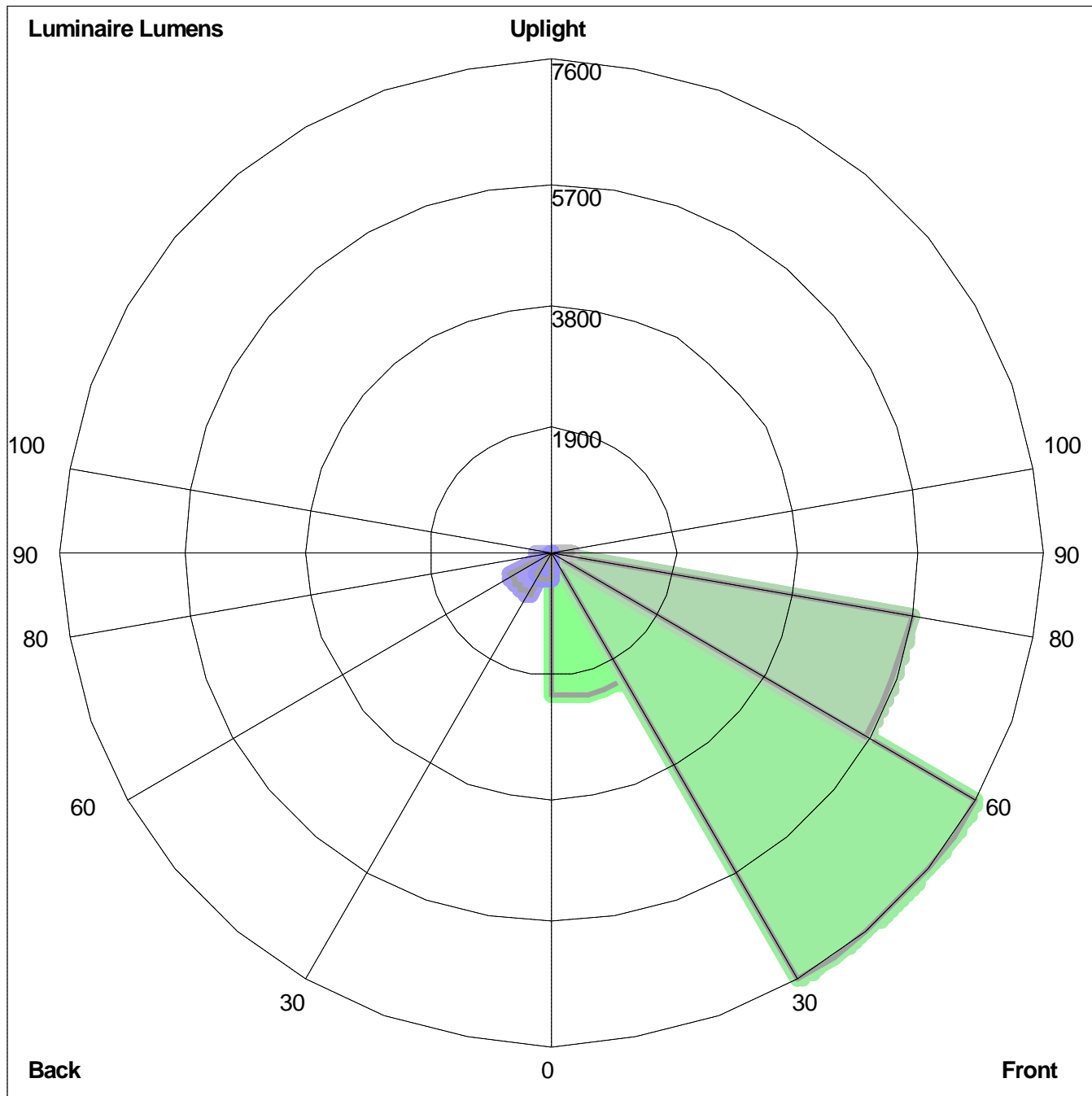
Maximum Candela = 10297 Located At Horizontal Angle = 25, Vertical Angle = 52.5  
# 1 - Vertical Plane Through Horizontal Angles (25 - 205) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (52.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=2242.1, Medium=7599.6, High=5633.8, Very High=296.0  
Back: Low=433.6, Medium=730.6, High=274.0, Very High=20.5  
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G3