



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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-5359A
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]03/30/16
[TEST DATE]03/30/16
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMCAT]XGBM-FT-LED-HO-CW-HSS
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]Tested with new Flat Black HSS Shield
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor

CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	20964
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	73
Total Luminaire Watts	287.6
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	15102
Maximum Candela Angle	15H 65V
Maximum Candela (<90 Degrees Vertical)	15102
Maximum Candela Angle (<90 Degrees Vertical)	15H 65V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	4652 (22.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2027.8	N.A.	9.7
FM - Front-Medium (30-60)	8963.2	N.A.	42.8
FH - Front-High (60-80)	8417.4	N.A.	40.2
FVH - Front-Very High (80-90)	531.6	N.A.	2.5
BL - Back-Low (0-30)	352.0	N.A.	1.7
BM - Back-Medium (30-60)	504.3	N.A.	2.4
BH - Back-High (60-80)	156.5	N.A.	0.7
BVH - Back-Very High (80-90)	11.2	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	20964.0	N.A.	100.0
BUG Rating	B1-U0-G4		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0.0	5.0	15.0	17.5	25.0	35.0	45.0	55.0	65.0	75.0
0.0	1280	1280	1280	1280	1280	1280	1280	1280	1280	1280
2.5	1373	1385	1377	1369	1366	1345	1330	1307	1290	1276
5.0	1804	1806	1768	1734	1700	1606	1529	1434	1367	1318
7.5	2977	2964	2847	2833	2636	2314	2048	1734	1522	1397
10.0	4514	4569	4427	4339	4087	3600	3006	2333	1829	1508
12.5	5811	5870	5720	5629	5353	4818	4208	3264	2285	1682
15.0	6469	6519	6488	6463	6390	5951	5267	4296	2997	1959
17.5	6429	6481	6567	6600	6674	6623	6206	5217	3892	2320
20.0	6217	6264	6334	6374	6513	6678	6742	6071	4680	2747
22.5	6272	6353	6484	6510	6407	6455	6848	6756	5436	3286
25.0	5933	6035	6172	6189	6274	6553	6741	7119	6223	3847
27.5	5288	5382	5608	5665	5936	6448	6758	7298	6910	4403
30.0	5067	5111	5174	5205	5382	6199	7020	7318	7405	4914
32.5	5565	5528	5322	5236	5248	5746	6880	7361	7623	5392
35.0	5925	5959	5918	5889	5822	5681	6318	7398	7528	5663
37.5	6533	6540	6354	6298	6328	6254	5883	7024	7100	5976
40.0	7849	7814	7496	7349	6995	6794	5862	6352	6819	6387
42.5	9444	9515	9114	8911	8429	7279	6511	5764	6781	6661
45.0	10770	10841	10539	10460	10403	8584	6788	5573	6435	6637
47.5	11703	11766	11610	11674	11988	10431	7419	5857	5906	6431
50.0	12735	12819	12969	13118	12991	11783	8601	6161	5327	6180
52.5	12487	12613	13418	13794	14165	12584	10080	6420	4936	5821
55.0	12492	12639	13366	13682	13974	13479	10822	7121	4908	5572
57.5	12463	12529	13330	13668	13927	13247	11180	8225	5143	5089
60.0	12412	12476	13655	13974	13906	13113	11669	8940	5087	4498
62.5	13109	13190	14301	14368	13913	12932	11365	9082	5340	3932
65.0	13804	13921	15102	15094	14483	12903	11089	9198	5862	3400
67.5	13202	13337	14571	14674	14822	13623	10687	8519	6136	3168
70.0	13041	13190	13974	13925	13894	13663	10719	7962	6266	3034
72.5	10942	11056	12024	12177	13549	12626	10542	7700	5805	3000
75.0	7384	7773	8629	8868	10404	11002	9630	7412	5160	2935
77.5	4995	5136	5528	5773	6665	7526	7649	6361	4622	2807
80.0	2265	2348	2692	2925	3836	4317	4261	4652	3928	2296
82.5	1104	1152	1198	1277	1456	1655	1851	2252	2490	1565
85.0	290	294	299	308	320	482	601	691	813	881
87.5	252	255	280	286	289	274	240	196	166	208
90.0	0	0	0	0	0	0	0	0	0	0
92.5	0	0	0	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0	0

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CANDELA TABULATION - (Cont.)

132.5	0	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	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	1280	1280	1280	1280	1280	1280	1280	1280	1280	1280
2.5	1262	1257	1252	1245	1239	1241	1238	1235	1234	1236
5.0	1281	1266	1250	1216	1176	1147	1143	1137	1134	1133
7.5	1315	1287	1260	1188	1141	1117	1104	1079	1040	1028
10.0	1359	1320	1277	1177	1130	1089	1020	981	932	904
12.5	1429	1371	1306	1183	1124	1020	950	853	803	780
15.0	1539	1464	1367	1221	1093	970	839	775	714	663
17.5	1660	1552	1437	1270	1090	889	783	674	599	552
20.0	1761	1610	1471	1279	1063	857	700	584	507	456
22.5	1832	1634	1471	1246	995	810	635	506	435	399
25.0	1885	1638	1464	1223	957	732	539	438	395	364
27.5	1952	1662	1481	1232	927	668	482	398	366	338
30.0	2033	1692	1502	1196	881	594	449	374	328	293
32.5	2068	1669	1501	1145	830	550	426	346	297	291
35.0	2071	1597	1427	1077	761	524	409	316	296	302
37.5	2033	1505	1336	1011	649	498	371	321	299	241
40.0	2147	1511	1292	940	582	466	370	335	209	163
42.5	2319	1548	1283	859	540	393	376	252	164	152
45.0	2484	1583	1291	791	524	340	366	187	157	132
47.5	2656	1603	1302	741	506	330	249	175	133	116
50.0	2845	1628	1313	682	468	334	201	145	118	101
52.5	3096	1692	1337	614	404	257	167	124	99	74
55.0	3172	1668	1305	570	379	192	133	101	71	59
57.5	3151	1602	1217	541	379	182	113	71	56	44
60.0	3150	1526	1148	497	296	159	88	55	43	33
62.5	3182	1425	1044	474	215	139	69	43	30	23
65.0	3101	1344	949	398	208	107	54	31	20	2
67.5	2949	1312	863	364	177	83	41	21	0	0
70.0	2570	1163	750	286	148	61	29	5	0	0
72.5	2197	1008	610	218	104	41	13	4	0	0
75.0	1762	859	475	217	74	20	11	4	0	0
77.5	1420	628	324	172	51	17	10	3	0	0

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CANDELA TABULATION - (Cont.)

80.0	928	432	236	121	33	15	9	3	0	0
82.5	509	241	130	74	19	14	9	4	0	0
85.0	292	92	68	28	17	13	9	4	1	0
87.5	106	21	21	17	15	13	9	5	2	0
90.0	0	0	0	0	0	0	0	0	0	0
92.5	0	0	0	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles

	<u>175.0</u>	<u>180.0</u>
0.0	1280	1280
2.5	1231	1232
5.0	1127	1134
7.5	1016	1019
10.0	883	877
12.5	766	767
15.0	637	640
17.5	529	530
20.0	435	436
22.5	379	382
25.0	347	350

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CANDELA TABULATION - (Cont.)

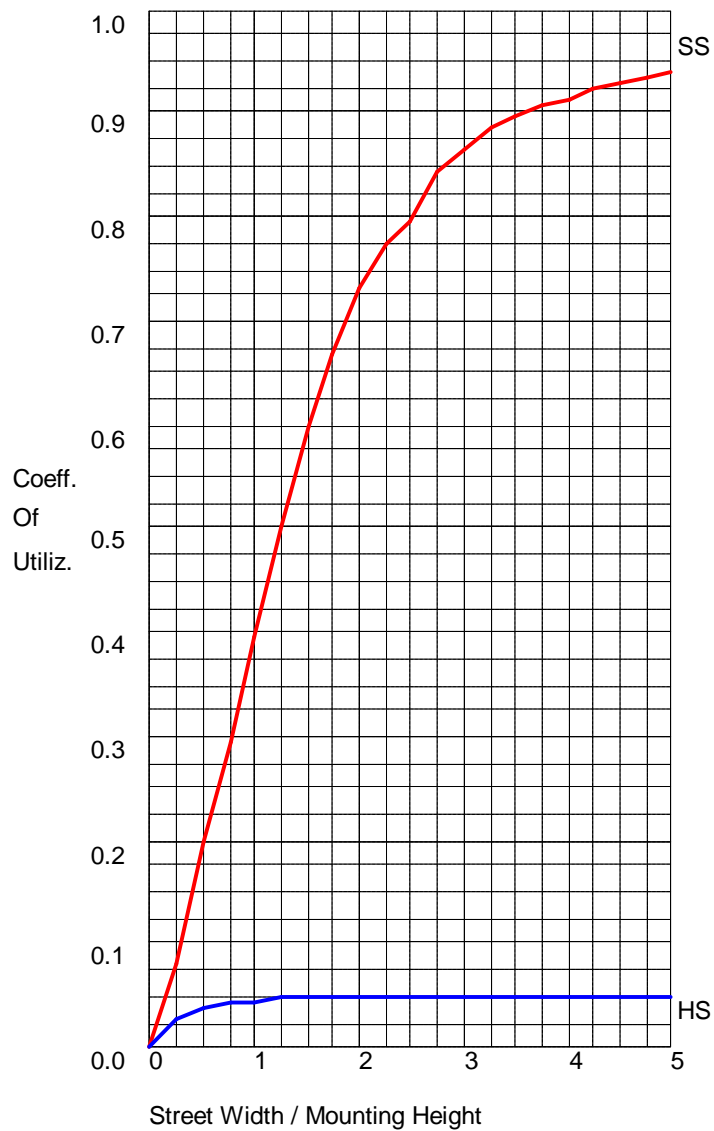
27.5	320	322
30.0	285	286
32.5	286	286
35.0	286	286
37.5	191	182
40.0	145	143
42.5	138	135
45.0	115	112
47.5	101	98
50.0	83	80
52.5	62	59
55.0	48	47
57.5	38	38
60.0	27	27
62.5	19	18
65.0	0	0
67.5	0	0
70.0	0	0
72.5	0	0
75.0	0	0
77.5	0	0
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0
92.5	0	0
95.0	0	0
97.5	0	0
100.0	0	0
102.5	0	0
105.0	0	0
107.5	0	0
110.0	0	0
112.5	0	0
115.0	0	0
117.5	0	0
120.0	0	0
122.5	0	0
125.0	0	0
127.5	0	0
130.0	0	0
132.5	0	0
135.0	0	0
137.5	0	0
140.0	0	0
142.5	0	0
145.0	0	0
147.5	0	0
150.0	0	0
152.5	0	0
155.0	0	0
157.5	0	0
160.0	0	0
162.5	0	0
165.0	0	0

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CANDELA TABULATION - (Cont.)

167.5	0	0
170.0	0	0
172.5	0	0
175.0	0	0
177.5	0	0
180.0	0	0

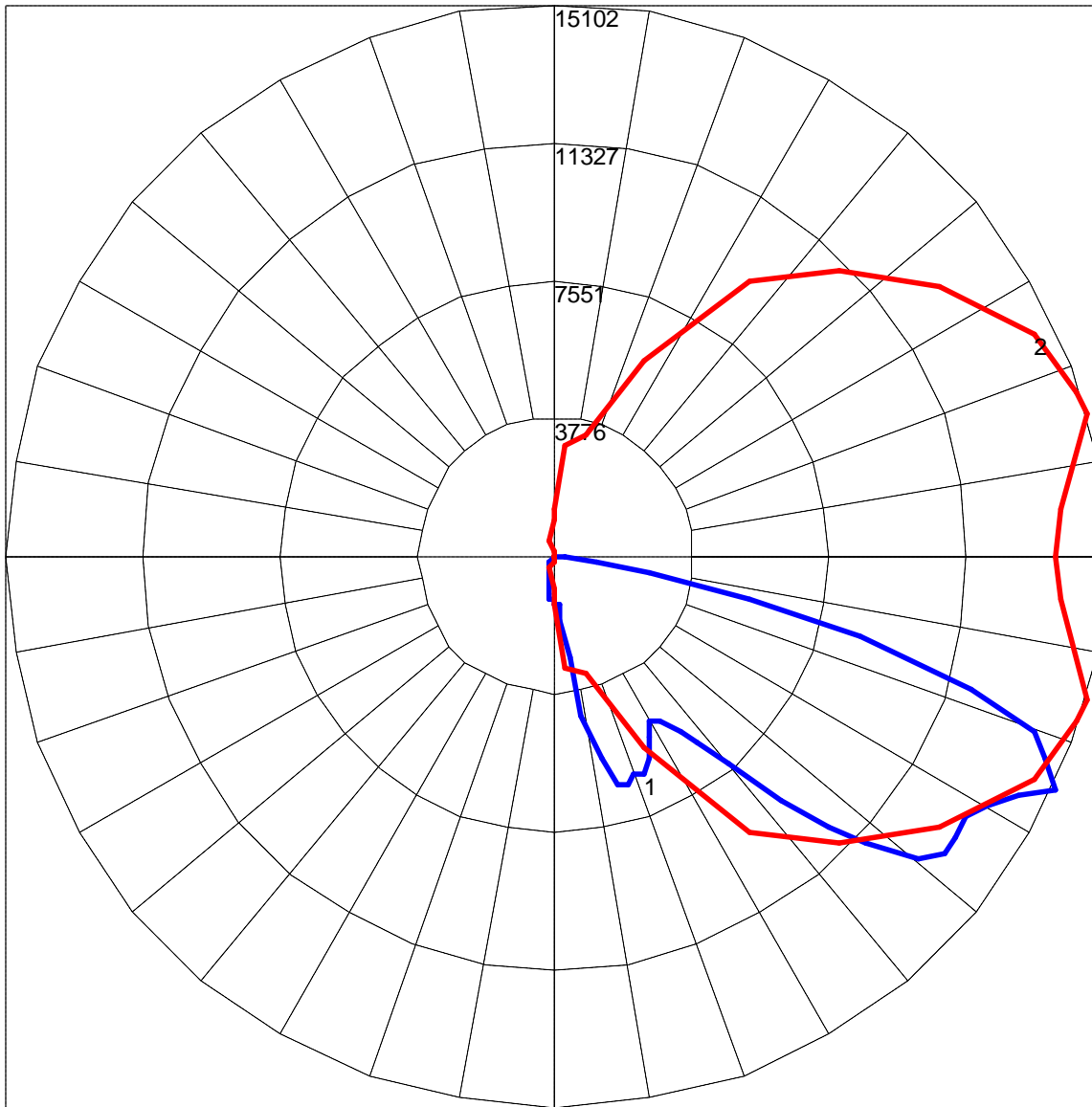
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

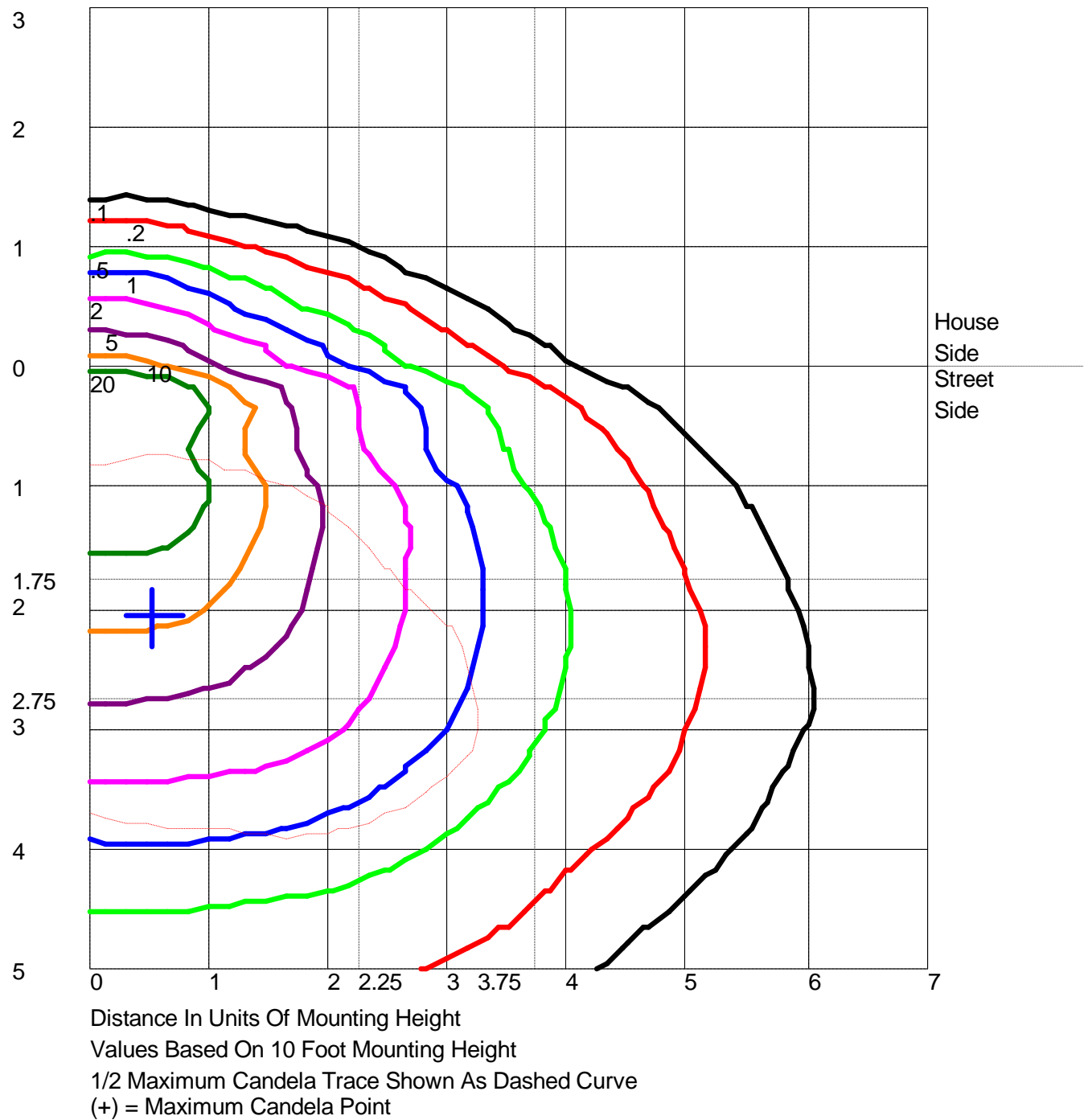
	Lumens	Percent Of Luminaire
Downward Street Side	19939.9	95.1
Downward House Side	1023.9	4.9
Downward Total	20963.8	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	20963.8	100.0

POLAR GRAPH

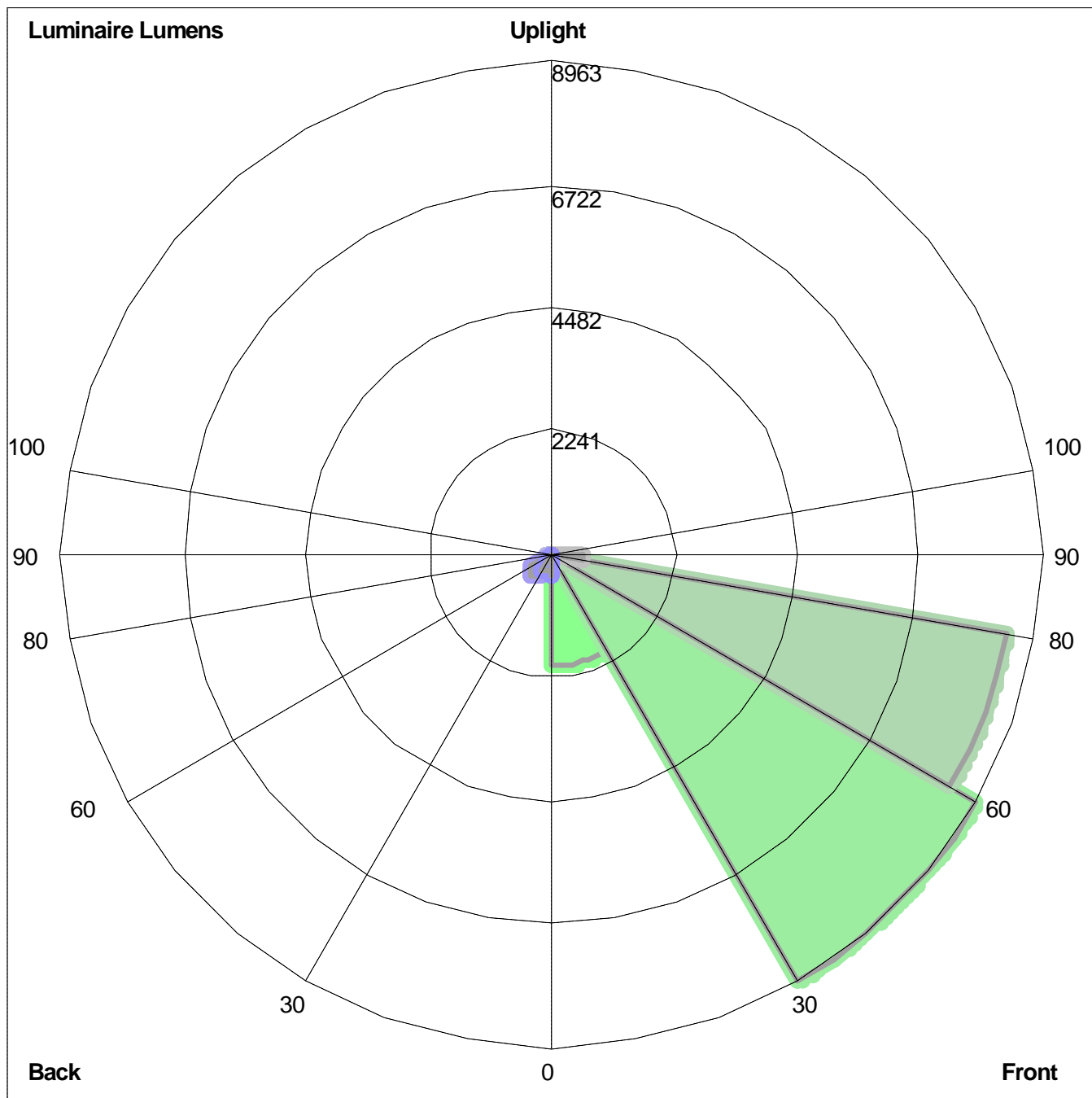


Maximum Candela = 15102 Located At Horizontal Angle = 15, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (15 - 195) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=2027.8, Medium=8963.2, High=8417.4, Very High=531.6
Back: Low=352.0, Medium=504.3, High=156.5, Very High=11.2
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G4