



IES ROAD REPORT

PHOTOMETRIC FILENAME : XMR-3-LED-18-50-IL.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-7762
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]11/21/16
[TEST DATE]04/28/16
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMCAT]XMR-3-LED-18-50-IL
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	15647
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	154.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	19800
Maximum Candela Angle	55H 67.5V
Maximum Candela (<90 Degrees Vertical)	19800
Maximum Candela Angle (<90 Degrees Vertical)	55H 67.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1078 (6.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT
PHOTOMETRIC FILENAME : XMR-3-LED-18-50-IL.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	691.6	N.A.	4.4
FM - Front-Medium (30-60)	7078.1	N.A.	45.2
FH - Front-High (60-80)	6522.3	N.A.	41.7
FVH - Front-Very High (80-90)	127.0	N.A.	0.8
BL - Back-Low (0-30)	304.1	N.A.	1.9
BM - Back-Medium (30-60)	684.5	N.A.	4.4
BH - Back-High (60-80)	234.8	N.A.	1.5
BVH - Back-Very High (80-90)	4.5	N.A.	0.0
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	15646.9	N.A.	100.0
BUG Rating	B1-U0-G3		

IES ROAD REPORT
PHOTOMETRIC FILENAME : XMR-3-LED-18-50-IL.IES

CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>5.0</u>	<u>15.0</u>	<u>25.0</u>	<u>35.0</u>	<u>45.0</u>	<u>55.0</u>	<u>57.5</u>	<u>65.0</u>	<u>75.0</u>
0.0	1213	1213	1213	1213	1213	1213	1213	1213	1213	1213
2.5	1392	1386	1366	1357	1340	1330	1307	1296	1285	1256
5.0	1530	1528	1522	1516	1502	1492	1457	1435	1398	1328
7.5	1489	1489	1494	1511	1519	1530	1525	1516	1487	1399
10.0	1389	1389	1400	1429	1462	1506	1538	1537	1534	1460
12.5	1293	1294	1307	1343	1384	1446	1511	1520	1544	1497
15.0	1214	1215	1232	1268	1323	1389	1464	1479	1535	1523
17.5	1169	1170	1189	1229	1287	1356	1437	1456	1527	1550
20.0	1192	1195	1217	1267	1319	1388	1468	1491	1563	1602
22.5	1349	1351	1371	1419	1456	1511	1583	1608	1669	1718
25.0	1674	1674	1700	1708	1721	1743	1815	1819	1871	1911
27.5	2111	2138	2140	2124	2108	2086	2131	2132	2156	2162
30.0	2575	2604	2616	2613	2584	2530	2533	2522	2502	2428
32.5	3063	3050	3074	3097	3096	3072	3006	2977	2880	2718
35.0	3442	3437	3494	3553	3596	3619	3515	3465	3288	3022
37.5	3797	3814	3879	3979	4068	4179	4036	3969	3700	3322
40.0	4207	4226	4295	4398	4538	4703	4588	4469	4101	3600
42.5	4735	4753	4831	4869	5057	5233	5099	4980	4466	3830
45.0	5424	5442	5521	5509	5650	5809	5606	5463	4800	4028
47.5	6320	6343	6440	6382	6479	6459	6113	5916	5148	4214
50.0	7532	7581	7791	7746	7633	7244	6628	6375	5472	4441
52.5	9345	9427	9660	9569	9281	8257	7234	6887	5861	4783
55.0	11443	11641	11868	11898	11470	9626	8001	7572	6418	5287
57.5	12432	12568	13330	14072	13993	11665	9202	8651	7292	6115
60.0	11134	11380	12746	14559	16725	14613	11028	10364	8690	7500
62.5	6602	6776	9286	12744	16690	17217	13879	13381	10763	9309
65.0	1883	1964	3050	7012	13960	17604	17112	16704	13270	10906
67.5	751	786	1060	2008	7887	15379	19800	19796	15215	11406
70.0	508	528	622	1038	2548	10309	17933	18889	16151	9444
72.5	410	428	481	759	1475	4430	13525	14809	12750	5349
75.0	323	333	383	645	1160	2141	6741	7946	6674	1645
77.5	247	262	304	564	1012	1317	2478	3134	1893	592
80.0	172	182	228	475	853	915	941	1078	791	317
82.5	103	109	150	392	650	629	423	387	368	204
85.0	67	71	104	326	516	339	171	180	184	132
87.5	42	45	72	243	254	117	75	74	76	76
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	1213	1213	1213	1213	1213	1213	1213	1213	1213	1213
2.5	1235	1224	1210	1181	1159	1135	1113	1081	1060	1063
5.0	1260	1224	1186	1110	1037	971	910	873	848	840
7.5	1284	1223	1159	1033	923	846	805	774	747	730
10.0	1305	1217	1128	954	835	778	732	699	674	657
12.5	1325	1209	1098	883	780	719	677	649	626	614
15.0	1343	1200	1066	829	739	684	638	617	603	595
17.5	1362	1194	1035	790	711	664	621	601	592	582
20.0	1400	1211	1027	768	711	653	620	591	575	570
22.5	1507	1287	1075	777	740	667	624	583	557	554
25.0	1667	1410	1179	807	779	701	625	575	540	506
27.5	1867	1582	1301	850	818	739	636	560	463	393

IES ROAD REPORT
PHOTOMETRIC FILENAME : XMR-3-LED-18-50-IL.IES

CANDELA TABULATION - (Cont.)

30.0	2067	1732	1412	897	853	774	638	478	360	343
32.5	2285	1905	1533	940	884	801	594	398	347	354
35.0	2512	2072	1658	966	898	810	518	389	349	364
37.5	2724	2232	1764	975	889	761	500	371	317	318
40.0	2915	2370	1846	965	854	666	491	346	272	254
42.5	3077	2478	1902	935	783	588	450	323	246	214
45.0	3208	2565	1936	886	649	470	388	297	263	191
47.5	3345	2667	1979	821	472	341	302	262	250	181
50.0	3527	2828	2058	750	346	250	227	239	242	177
52.5	3805	3089	2228	700	263	199	177	211	218	181
55.0	4239	3531	2512	664	236	177	147	177	171	192
57.5	4970	4138	2927	603	222	163	128	147	133	138
60.0	6137	4883	3156	519	210	144	111	105	80	107
62.5	7777	5438	2976	434	185	119	110	65	54	84
65.0	8604	5417	2208	351	144	105	79	51	39	81
67.5	8226	4394	1317	242	107	79	52	43	38	62
70.0	5369	2762	655	156	79	48	32	35	29	46
72.5	2356	1101	243	100	58	28	24	23	19	31
75.0	591	375	147	74	37	21	15	15	7	12
77.5	281	187	102	53	22	14	8	5	2	3
80.0	174	124	75	35	12	6	5	3	1	0
82.5	116	84	54	20	6	6	5	2	0	0
85.0	74	58	38	11	6	5	4	2	0	0
87.5	42	31	19	6	7	7	6	3	1	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

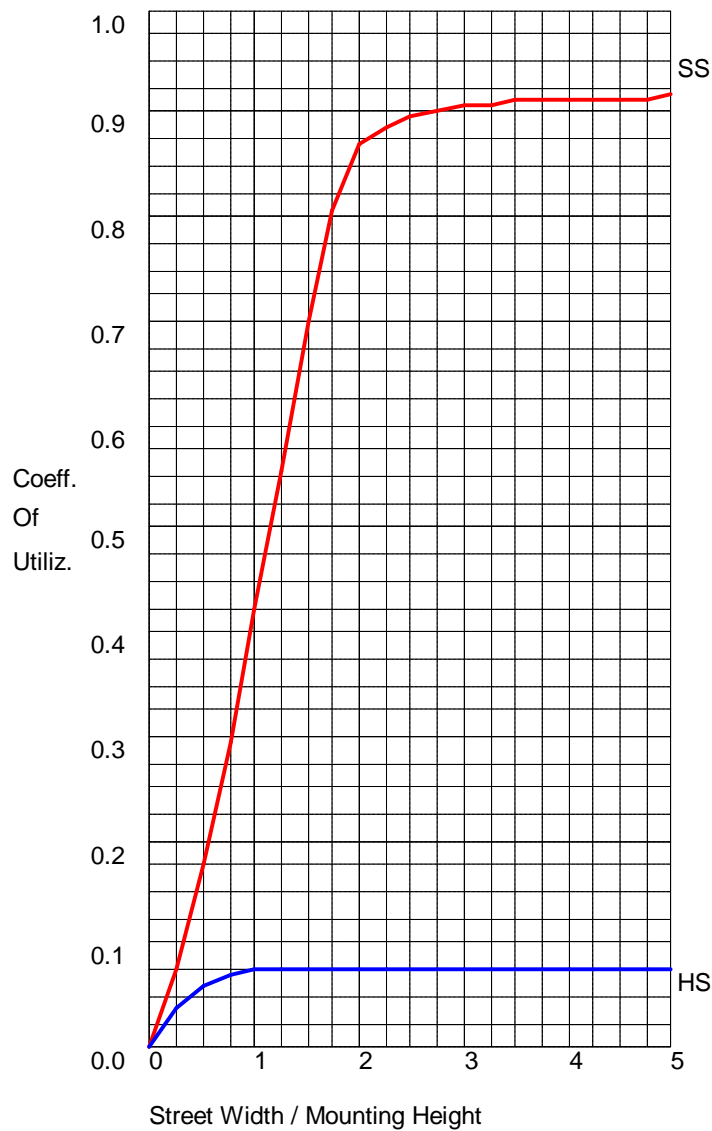
	175.0	180.0
0.0	1213	1213
2.5	1055	1057
5.0	834	832
7.5	727	725
10.0	653	649
12.5	609	606
15.0	592	587
17.5	578	573
20.0	564	558
22.5	548	543
25.0	479	473
27.5	364	359
30.0	345	342
32.5	370	365
35.0	391	387
37.5	326	321
40.0	246	238
42.5	185	183
45.0	166	161
47.5	151	148
50.0	137	131
52.5	144	139
55.0	141	134
57.5	87	74
60.0	67	56
62.5	58	45
65.0	71	54

IES ROAD REPORT
PHOTOMETRIC FILENAME : XMR-3-LED-18-50-IL.IES

CANDELA TABULATION - (Cont.)

67.5	65	47
70.0	54	37
72.5	36	25
75.0	11	7
77.5	0	0
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0

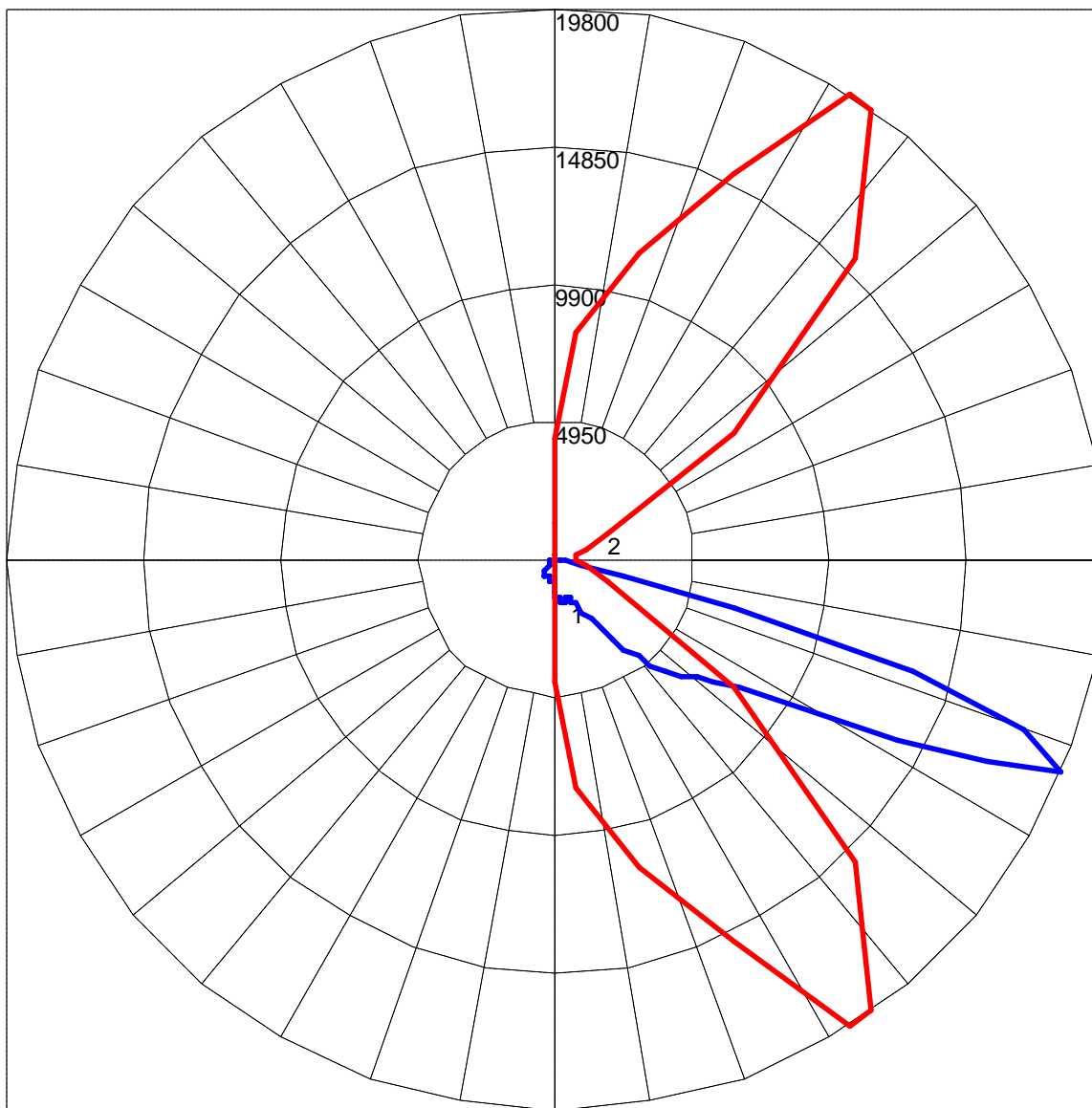
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

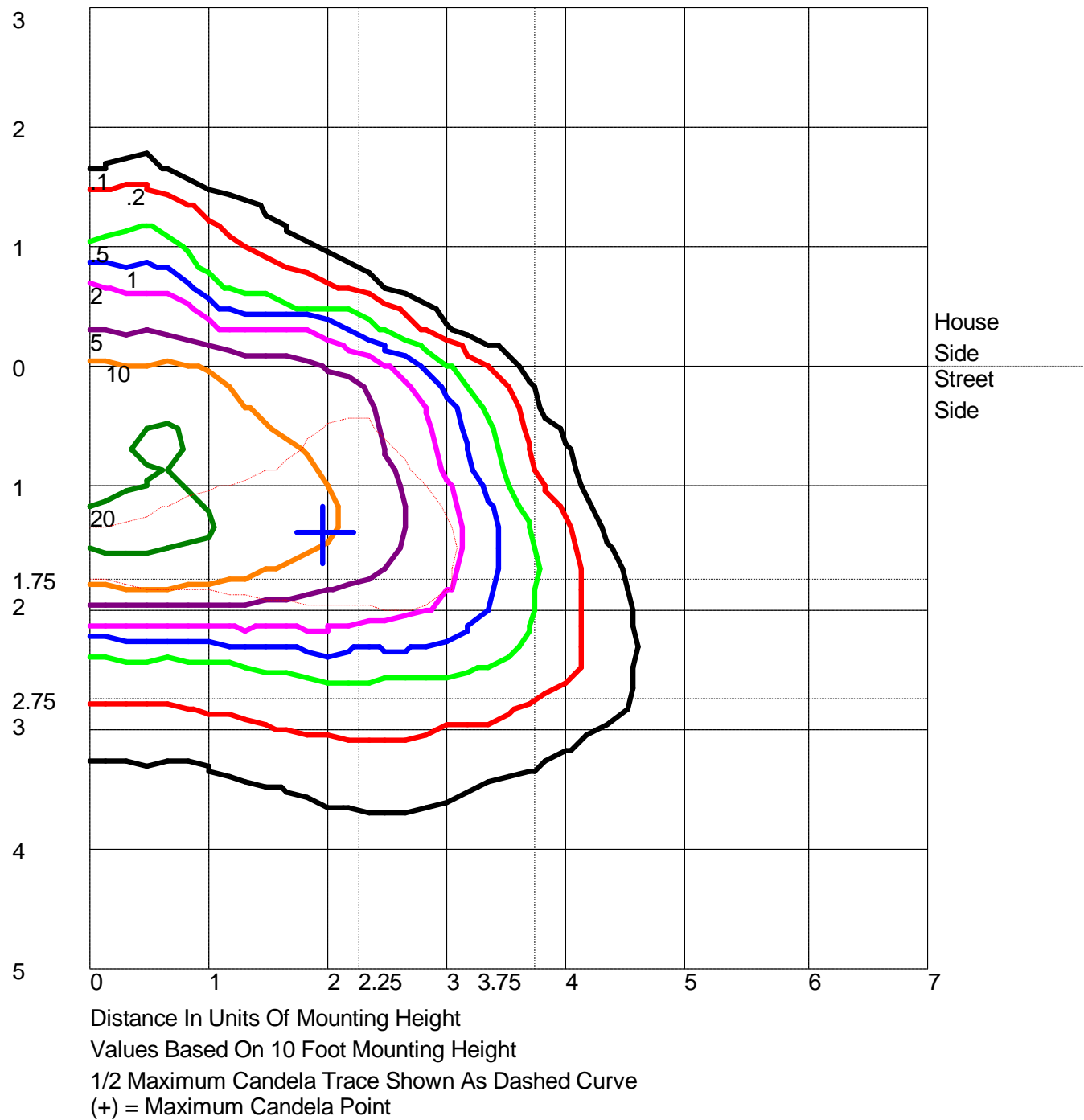
	Lumens	Percent Of Luminaire
Downward Street Side	14419.1	92.2
Downward House Side	1228.0	7.8
Downward Total	15647.1	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	15647.1	100.0

POLAR GRAPH

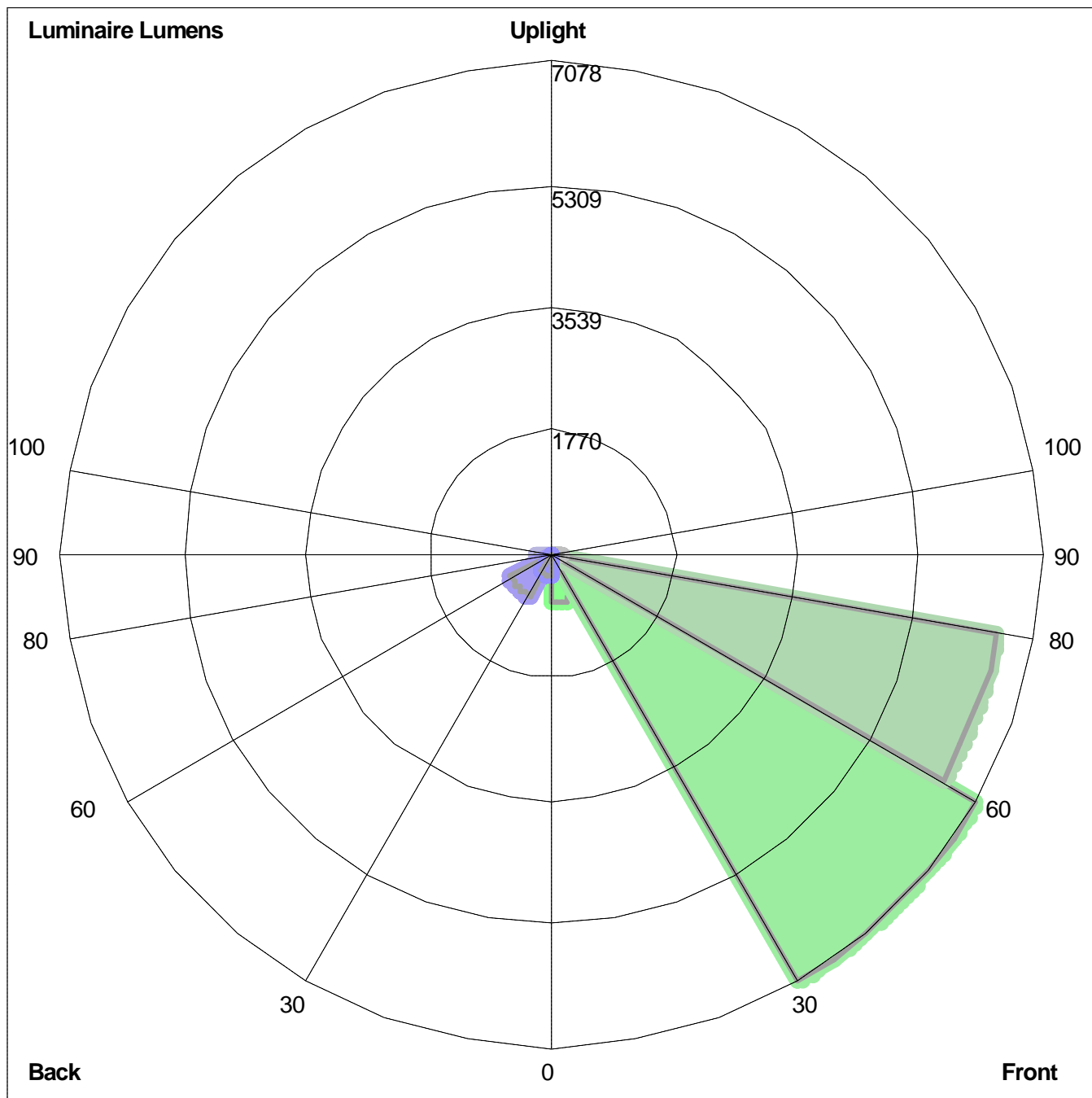


Maximum Candela = 19800 Located At Horizontal Angle = 55, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (55 - 235) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=691.6, Medium=7078.1, High=6522.3, Very High=127.0
Back: Low=304.1, Medium=684.5, High=234.8, Very High=4.5
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G3