



IES ROAD REPORT
PHOTOMETRIC FILENAME : XENM3-PT-FT-LED-HO-NW.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-4777
[TESTLAB]LSI INDUSTRIES, INC
[ISS DATE]11/23/13
[TESTDATE]11/23/13
[MANUFAC]LSI INDUSTRIES, INC
[LUMCAT]XENM3-PT-FT-LED-HO-NW
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[ABSOLUTE]LUMENS]7560
[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	7560
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	70
Total Luminaire Watts	108
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	4911
Maximum Candela Angle	30H 60V
Maximum Candela (<90 Degrees Vertical)	4911
Maximum Candela Angle (<90 Degrees Vertical)	30H 60V
Maximum Candela At 90 Degrees Vertical	9 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1359 (18.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	614.9	N.A.	8.1
FM - Front-Medium (30-60)	3531.7	N.A.	46.7
FH - Front-High (60-80)	2615.0	N.A.	34.6
FVH - Front-Very High (80-90)	89.1	N.A.	1.2
BL - Back-Low (0-30)	142.0	N.A.	1.9
BM - Back-Medium (30-60)	395.4	N.A.	5.2
BH - Back-High (60-80)	140.6	N.A.	1.9
BVH - Back-Very High (80-90)	9.0	N.A.	0.1
UL - Uplight-Low (90-100)	4.4	N.A.	0.1
UH - Uplight-High (100-180)	17.6	N.A.	0.2
Total	7559.7	N.A.	100.0
BUG Rating	B1-U2-G2		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>5</u>	<u>15</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>45</u>	<u>55</u>	<u>65</u>	<u>75</u>
0.0	282	282	282	282	282	282	282	282	282	282
2.5	340	340	338	330	321	316	305	298	292	282
5.0	436	435	413	374	364	354	332	320	303	290
7.5	652	626	558	494	468	458	419	384	348	312
10.0	896	872	759	710	664	649	556	479	454	406
12.5	1255	1217	1045	996	940	897	839	786	622	512
15.0	1488	1451	1298	1260	1228	1231	1199	1059	840	643
17.5	1631	1618	1535	1484	1528	1567	1574	1361	1116	783
20.0	1729	1687	1642	1679	1770	1868	1829	1716	1453	1008
22.5	1658	1640	1690	1824	1935	1986	2070	2134	1915	1318
25.0	1731	1672	1662	1827	1925	2050	2277	2507	2336	1606
27.5	1773	1724	1758	1935	1970	2041	2502	2842	2744	1953
30.0	1915	1883	1898	2008	2025	2169	2579	3086	3122	2269
32.5	2106	2079	2116	2142	2144	2299	2681	3130	3333	2684
35.0	2292	2303	2308	2347	2409	2548	2722	3009	3440	2987
37.5	2483	2510	2508	2546	2710	2785	2775	2903	3347	3056
40.0	2690	2709	2754	2848	2982	2997	2890	2797	3163	3114
42.5	3043	3024	3084	3222	3327	3260	3016	2727	2981	3094
45.0	3350	3355	3564	3745	3763	3588	3165	2745	2790	3011
47.5	3362	3360	3671	4197	4318	4080	3426	2849	2579	2887
50.0	3482	3481	3859	4326	4561	4578	3785	2949	2437	2728
52.5	3526	3521	4057	4596	4656	4658	4245	3084	2374	2530
55.0	3622	3612	4083	4643	4753	4759	4460	3301	2400	2340
57.5	3616	3634	4343	4714	4681	4774	4461	3612	2493	2213
60.0	3320	3308	4094	4806	4911	4816	4568	3869	2676	2148
62.5	3453	3434	4176	4460	4588	4882	4557	3973	2886	1976
65.0	3393	3421	4264	4571	4564	4550	4759	4088	2885	1706
67.5	2634	2668	3421	4353	4637	4762	4563	3775	2778	1593
70.0	2133	2185	2675	3331	3829	4512	4369	3430	2791	1518
72.5	1467	1518	1917	2603	3216	3590	3740	3010	2554	1503
75.0	956	987	1220	1813	2218	2445	2617	2680	2265	1511
77.5	499	497	654	1133	1375	1478	1421	1730	1991	1436
80.0	86	91	166	351	508	616	740	807	1359	1160
82.5	25	25	51	82	80	100	136	328	534	750
85.0	8	9	11	18	20	21	24	37	122	290
87.5	2	2	4	5	4	5	6	6	8	20
90.0	1	1	2	3	3	4	4	4	4	3
92.5	0	1	2	3	3	4	4	4	4	4
95.0	0	1	2	3	3	3	4	4	4	4
97.5	1	1	2	3	3	3	4	4	4	4
100.0	0	1	2	3	3	3	3	4	4	4
102.5	1	1	2	2	3	3	3	4	4	4
105.0	1	1	2	2	2	3	3	4	4	4
107.5	1	1	2	2	2	3	3	3	4	4
110.0	1	1	2	2	3	3	3	4	4	4
112.5	1	1	2	3	3	3	3	4	4	4
115.0	1	1	2	3	3	3	3	4	4	4
117.5	1	1	2	3	3	3	4	4	4	4
120.0	2	2	2	3	3	3	4	4	4	4
122.5	2	2	3	3	3	4	4	4	5	5
125.0	2	2	3	4	4	4	4	5	5	5
127.5	2	3	4	4	4	4	4	5	5	5
130.0	3	3	4	4	4	4	5	5	5	5

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CANDELA TABULATION - (Cont.)

132.5	3	3	4	4	4	4	5	5	5	5
135.0	3	3	4	4	4	4	5	5	5	5
137.5	1	1	2	3	3	3	4	4	4	4
140.0	0	1	2	2	2	2	3	3	4	4
142.5	0	1	1	2	2	2	2	3	3	3
145.0	0	0	1	2	2	2	2	3	3	3
147.5	0	0	1	2	2	2	2	3	3	4
150.0	0	0	1	2	2	2	3	3	3	4
152.5	0	0	1	2	2	2	3	3	3	4
155.0	0	1	1	2	2	2	3	3	3	4
157.5	0	1	1	2	2	2	3	3	3	3
160.0	0	0	1	2	2	2	3	3	3	3
162.5	0	0	1	2	2	2	3	3	3	3
165.0	0	0	1	2	2	2	3	3	3	3
167.5	0	0	1	2	2	2	3	3	3	3
170.0	0	0	1	2	2	2	3	3	3	3
172.5	0	1	1	2	2	2	3	3	3	3
175.0	0	0	1	2	2	2	2	2	3	3
177.5	0	0	1	2	2	2	2	2	2	2
180.0	1	1	1	1	1	1	1	1	1	1

Vert. Angles	Horizontal Angles									
	85	90	95	105	115	125	135	145	155	165
0.0	282	282	282	282	282	282	282	282	282	282
2.5	271	269	265	260	257	253	252	252	253	257
5.0	272	260	249	231	220	221	223	218	216	218
7.5	280	266	252	242	235	230	218	199	189	190
10.0	347	319	290	278	261	232	218	216	211	201
12.5	418	375	340	320	293	267	255	234	211	197
15.0	532	473	422	382	340	309	267	229	213	211
17.5	616	550	495	431	434	342	265	247	218	199
20.0	741	659	561	508	476	361	305	242	208	196
22.5	825	704	619	582	496	392	333	242	199	182
25.0	901	787	694	654	493	430	353	261	195	185
27.5	1020	837	733	699	536	452	396	247	192	183
30.0	1118	891	788	755	611	490	363	235	190	190
32.5	1244	959	824	744	677	525	337	243	194	198
35.0	1305	927	787	690	723	573	342	256	206	200
37.5	1430	952	766	606	682	560	349	272	204	192
40.0	1599	1011	779	561	565	537	341	283	190	155
42.5	1704	1080	811	544	467	526	316	281	156	108
45.0	1739	1114	837	529	398	528	277	236	140	99
47.5	1769	1122	855	513	351	460	234	182	162	106
50.0	1808	1122	864	494	315	381	180	160	181	111
52.5	1844	1120	872	470	285	303	132	149	198	113
55.0	1856	1122	873	452	262	198	113	128	186	122
57.5	1824	1088	849	421	244	129	108	119	173	147
60.0	1780	971	774	391	211	120	104	115	166	168
62.5	1707	985	712	345	160	121	93	112	162	185
65.0	1519	1004	695	312	118	121	83	102	161	165
67.5	1307	911	620	269	112	103	64	72	86	32
70.0	1132	780	491	207	121	79	53	42	33	23
72.5	937	681	428	147	113	59	43	42	31	18
75.0	828	544	331	111	89	45	41	35	30	16
77.5	663	433	239	103	67	32	28	22	25	14

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CANDELA TABULATION - (Cont.)

80.0	493	257	147	89	40	21	19	9	13	13
82.5	318	149	71	50	21	12	11	6	10	12
85.0	163	59	26	18	8	6	5	5	7	9
87.5	28	12	6	5	4	4	4	4	6	8
90.0	3	3	3	3	4	4	4	4	6	8
92.5	3	3	3	4	4	4	4	4	6	8
95.0	3	4	4	4	4	5	5	4	6	8
97.5	4	4	4	4	5	5	5	3	5	6
100.0	4	4	4	4	5	5	4	3	4	4
102.5	4	4	4	4	5	5	5	3	3	3
105.0	4	4	4	4	5	5	5	3	3	2
107.5	4	4	4	4	5	5	4	4	3	2
110.0	4	4	4	4	5	5	5	4	3	2
112.5	4	4	4	5	5	5	5	4	3	3
115.0	4	4	4	5	5	5	5	4	3	3
117.5	4	4	5	5	5	5	5	4	3	3
120.0	4	4	5	5	5	5	5	4	4	3
122.5	5	5	5	5	5	5	5	4	4	3
125.0	5	5	5	5	5	6	5	5	4	3
127.5	5	5	5	5	5	6	5	5	4	3
130.0	5	5	5	5	5	6	5	4	4	3
132.5	5	5	5	5	5	5	5	4	3	3
135.0	5	5	5	5	5	5	5	4	3	3
137.5	5	4	5	5	5	5	4	4	3	2
140.0	4	4	4	4	4	4	4	3	2	2
142.5	4	4	4	4	4	4	4	3	2	1
145.0	4	4	4	4	4	4	3	3	2	1
147.5	4	4	4	4	4	4	3	3	2	1
150.0	4	4	4	4	4	4	3	3	2	1
152.5	4	4	4	4	4	4	3	2	2	1
155.0	4	4	4	4	4	4	3	2	2	1
157.5	4	4	4	4	3	3	3	2	1	1
160.0	3	3	3	3	3	3	3	2	1	1
162.5	3	3	3	3	3	3	2	2	1	1
165.0	3	3	3	3	3	3	2	1	1	0
167.5	3	3	3	3	3	3	2	1	1	0
170.0	3	3	3	3	3	2	2	1	1	0
172.5	3	3	3	3	3	2	2	1	1	0
175.0	3	3	2	3	3	2	2	1	0	0
177.5	3	2	3	2	2	2	1	1	0	0
180.0	1	1	1	1	1	1	1	1	1	1

Vert. Horizontal Angles

	<u>175</u>	<u>180</u>
0.0	282	282
2.5	259	261
5.0	225	230
7.5	203	213
10.0	217	228
12.5	204	213
15.0	211	222
17.5	194	200
20.0	185	186
22.5	178	173
25.0	180	173

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CANDELA TABULATION - (Cont.)

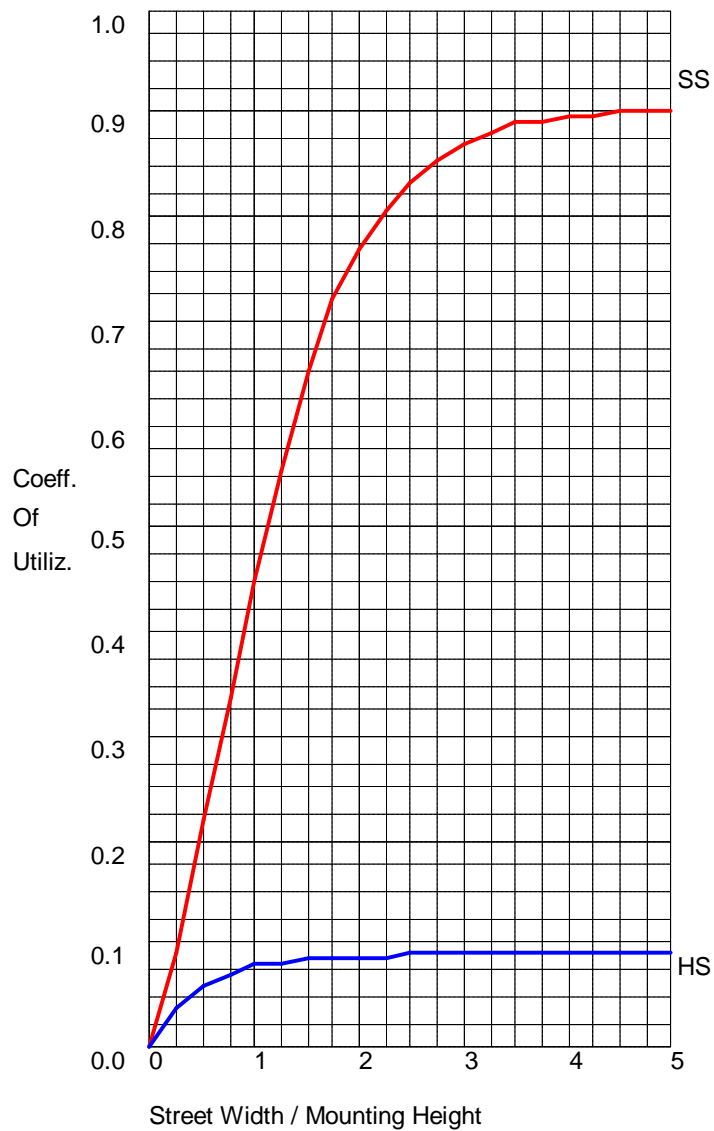
27.5	183	184
30.0	190	185
32.5	200	193
35.0	196	191
37.5	179	173
40.0	127	120
42.5	88	81
45.0	86	77
47.5	84	77
50.0	77	73
52.5	67	64
55.0	58	55
57.5	50	46
60.0	43	38
62.5	37	32
65.0	32	27
67.5	26	21
70.0	18	16
72.5	15	14
75.0	13	13
77.5	12	12
80.0	12	12
82.5	11	11
85.0	10	10
87.5	9	9
90.0	9	9
92.5	9	9
95.0	9	9
97.5	6	7
100.0	4	4
102.5	3	3
105.0	2	2
107.5	2	2
110.0	2	2
112.5	2	2
115.0	2	2
117.5	3	2
120.0	3	3
122.5	3	3
125.0	3	3
127.5	3	2
130.0	3	2
132.5	3	3
135.0	2	2
137.5	2	2
140.0	1	1
142.5	1	1
145.0	1	0
147.5	1	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	1	1

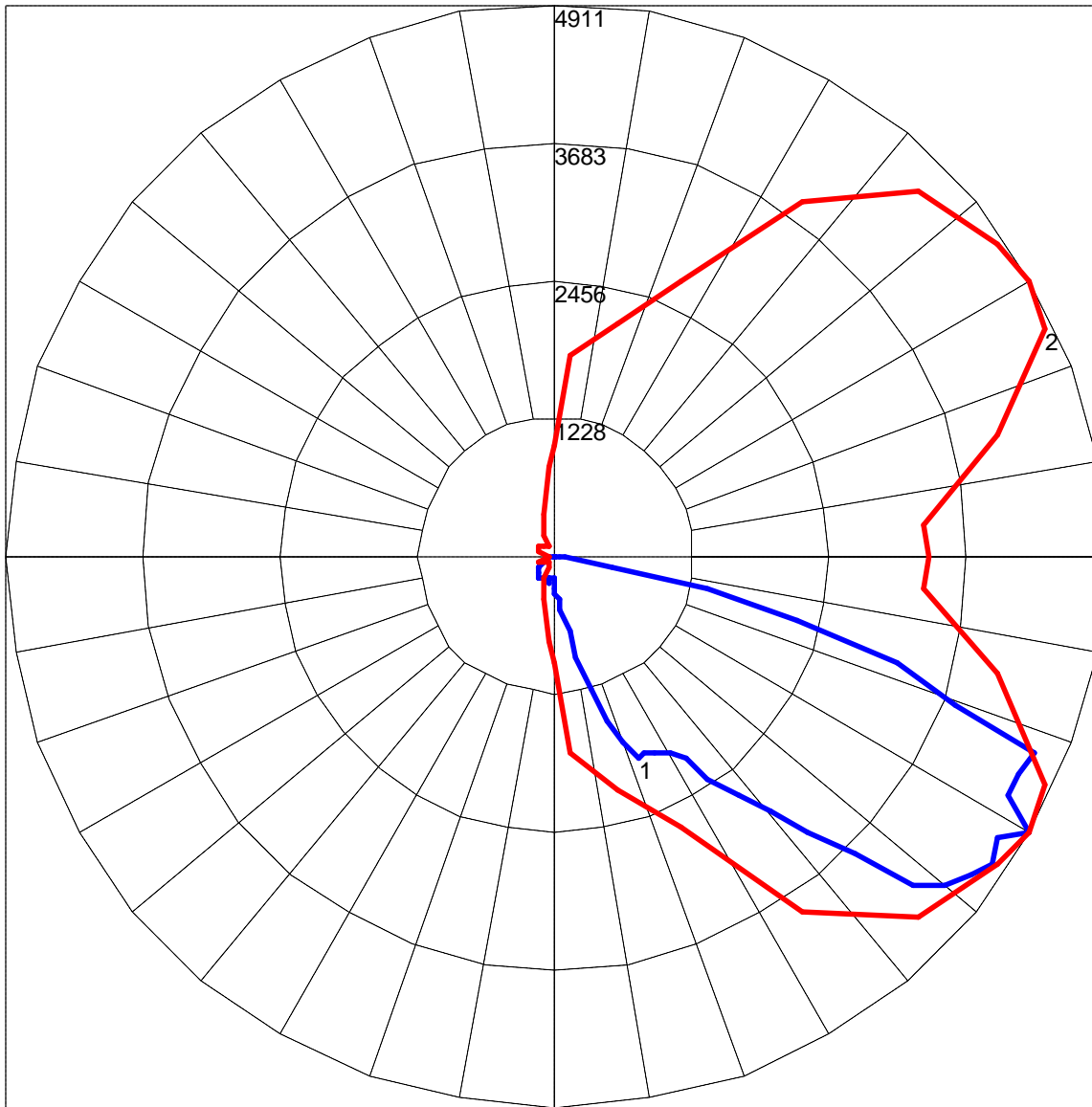
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

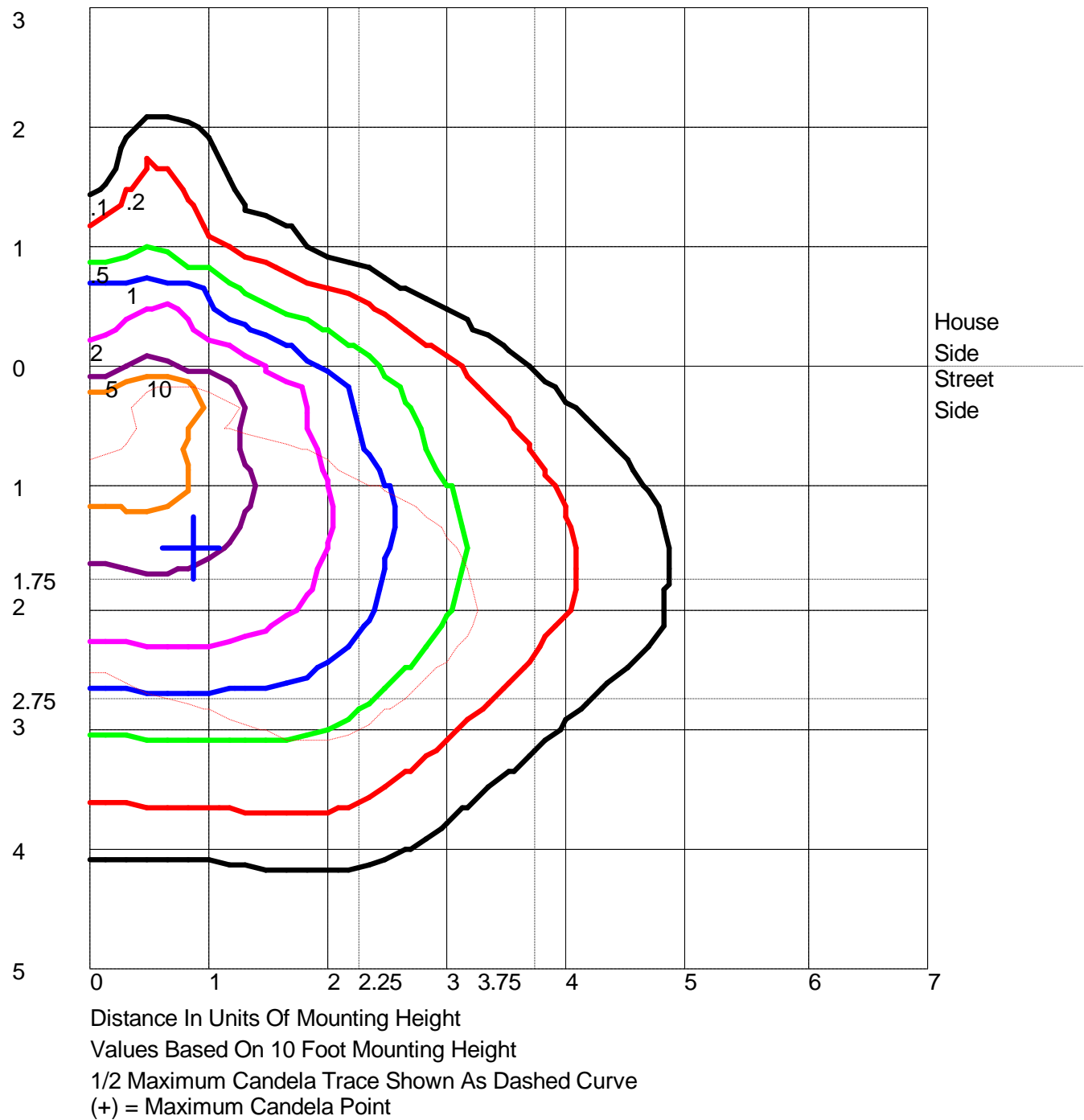
	Lumens	Percent Of Luminaire
Downward Street Side	6850.7	90.6
Downward House Side	687.0	9.1
Downward Total	7537.7	99.7
Upward Street Side	9.9	0.1
Upward House Side	12.1	0.2
Upward Total	22.0	0.3
Total Flux	7559.7	100.0

POLAR GRAPH

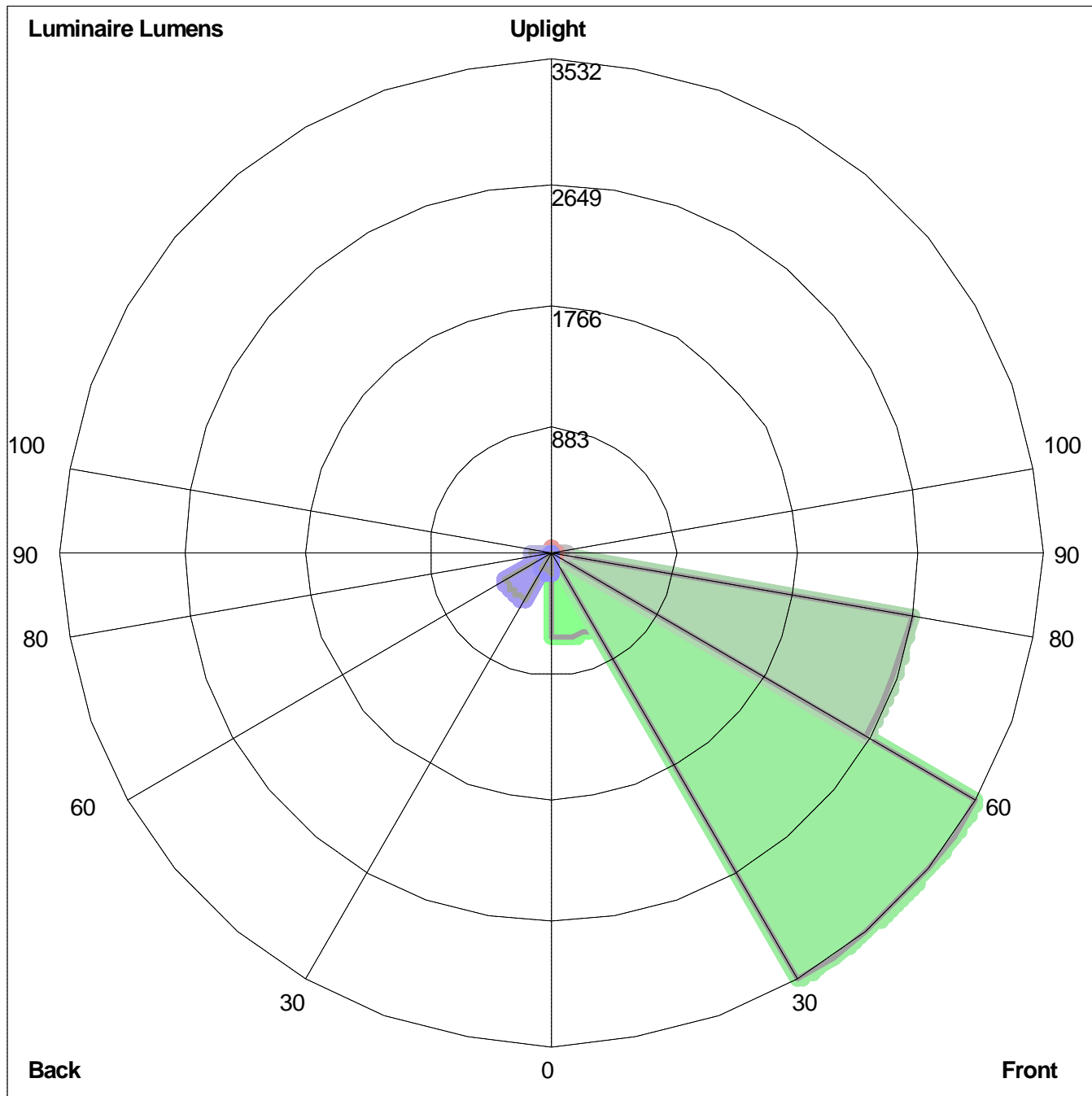


Maximum Candela = 4911 Located At Horizontal Angle = 30, Vertical Angle = 60
1 - Vertical Plane Through Horizontal Angles (30 - 210) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=614.9, Medium=3531.7, High= 2615.0, Very High=89.1
Back: Low=142.0, Medium=395.4, High=140.6, Very High=9.0
Uplight: Low=4.4, High=17.6

BUG Rating : B1-U2-G2