



IES ROAD REPORT
PHOTOMETRIC FILENAME : XENM3-SA-3-LED-SS-CW.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-4689
[TESTLAB]LSI INDUSTRIES, INC
[ISSUEDATE]11/11/13
[MANUFAC]LSI INDUSTRIES, INC
[LUMCAT]XENM3-SA-3-LED-SS-CW
[_ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[_ABSOLUTE]LUMENS]7109
[_SEARCH_SOURCE]TYPE] 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	7109
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	70
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	4794
Maximum Candela Angle	52.5H 55V
Maximum Candela (<90 Degrees Vertical)	4794
Maximum Candela Angle (<90 Degrees Vertical)	52.5H 55V
Maximum Candela At 90 Degrees Vertical	2 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	746 (10.5% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	819.2	N.A.	11.5
FM - Front-Medium (30-60)	3508.9	N.A.	49.4
FH - Front-High (60-80)	1548.1	N.A.	21.8
FVH - Front-Very High (80-90)	49.6	N.A.	0.7
BL - Back-Low (0-30)	380.4	N.A.	5.4
BM - Back-Medium (30-60)	595.1	N.A.	8.4
BH - Back-High (60-80)	192.7	N.A.	2.7
BVH - Back-Very High (80-90)	6.0	N.A.	0.1
UL - Uplight-Low (90-100)	1.2	N.A.	0.0
UH - Uplight-High (100-180)	7.6	N.A.	0.1
Total	7108.8	N.A.	100.0
BUG Rating	B1-U1-G1		

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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>52.5</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	1179	1179	1179	1179	1179	1179	1179	1179	1179	1179
2.5	1176	1182	1187	1192	1198	1206	1211	1209	1221	1218
5.0	1158	1158	1167	1185	1218	1258	1288	1298	1330	1339
7.5	1135	1138	1146	1168	1206	1271	1335	1362	1451	1507
10.0	1208	1211	1232	1277	1331	1420	1472	1507	1629	1712
12.5	1300	1300	1331	1416	1536	1652	1684	1701	1782	1913
15.0	1404	1406	1463	1614	1777	1863	1912	1940	1973	2066
17.5	1471	1477	1611	1851	2022	2125	2134	2134	2105	2097
20.0	1559	1565	1766	2131	2350	2360	2261	2222	2129	2058
22.5	1530	1548	1858	2351	2641	2529	2289	2223	2063	1965
25.0	1527	1549	1970	2530	2791	2596	2345	2228	1993	1873
27.5	1531	1562	2078	2676	2804	2641	2411	2302	1946	1800
30.0	1503	1535	2157	2799	2809	2685	2516	2398	1949	1768
32.5	1459	1518	2295	2850	2836	2773	2686	2587	2088	1815
35.0	1499	1614	2509	2976	2908	2821	2778	2705	2339	2019
37.5	1632	1785	2843	3092	3126	2887	2806	2807	2617	2350
40.0	1828	1999	3117	3272	3326	3125	2934	2931	2921	2661
42.5	2100	2239	3314	3373	3566	3507	3224	3166	3282	2998
45.0	2318	2461	3407	3422	3724	3980	3649	3562	3630	3203
47.5	2433	2587	3453	3508	3906	4357	4162	4048	3861	3357
50.0	2091	2370	3281	3516	3992	4594	4586	4473	3942	3406
52.5	1751	2108	2780	3202	3953	4662	4779	4695	4014	3424
55.0	1387	1742	2470	2841	3653	4597	4794	4757	4024	3295
57.5	1102	1385	1900	2419	3250	4438	4571	4532	3944	3138
60.0	1158	1374	1699	1953	2850	3909	4294	4305	3791	3124
62.5	883	1157	1459	1844	2365	3455	3886	3917	3624	3095
65.0	513	662	816	1443	2190	2772	3301	3320	3460	3048
67.5	437	470	633	897	1553	2531	2830	2982	3162	2635
70.0	44	48	106	482	1136	2252	2593	2540	2497	2414
72.5	27	28	39	127	634	1743	2139	2169	2248	2129
75.0	21	22	29	89	466	1223	1773	1778	1813	1697
77.5	14	15	22	43	356	948	1245	1253	1251	977
80.0	9	10	15	27	237	587	746	735	679	510
82.5	5	6	9	11	104	234	327	323	287	203
85.0	3	3	4	4	16	40	69	78	81	46
87.5	1	1	1	2	3	4	4	4	5	3
90.0	0	0	1	1	1	2	2	2	1	1
92.5	0	0	1	1	1	2	1	2	1	1
95.0	0	0	1	1	1	2	2	1	1	1
97.5	0	0	0	1	1	1	1	1	1	1
100.0	0	0	1	1	1	1	1	1	1	1
102.5	0	0	1	1	1	1	1	1	1	1
105.0	0	0	1	1	1	1	1	1	1	1
107.5	0	0	1	1	1	1	1	1	1	1
110.0	0	0	1	1	1	1	1	1	1	1
112.5	0	0	1	1	1	1	1	1	1	1
115.0	0	0	1	1	1	1	1	1	1	1
117.5	0	0	1	1	1	1	1	1	1	1
120.0	0	0	1	1	1	1	1	1	1	1
122.5	0	0	1	1	1	1	1	1	1	1
125.0	0	0	1	1	1	1	1	1	1	1
127.5	0	0	1	1	1	1	1	1	1	1
130.0	0	0	1	1	1	1	1	1	1	1

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CANDELA TABULATION - (Cont.)

132.5	0	0	1	1	1	1	1	1	1	1
135.0	0	0	1	1	1	1	1	1	1	1
137.5	0	0	1	1	1	1	1	1	1	1
140.0	0	0	0	1	1	1	1	1	1	1
142.5	0	0	0	1	1	1	1	1	1	1
145.0	0	0	0	1	1	1	1	1	1	1
147.5	0	0	0	1	1	1	1	1	1	1
150.0	0	0	0	1	1	1	1	1	1	1
152.5	0	0	1	1	1	1	1	1	1	1
155.0	0	0	0	1	1	1	1	1	1	1
157.5	0	0	1	1	1	1	1	1	1	1
160.0	0	0	1	1	1	1	1	1	0	1
162.5	0	0	1	1	1	1	0	1	1	1
165.0	0	0	1	1	1	0	0	0	0	0
167.5	0	0	1	1	1	0	0	0	0	0
170.0	0	0	1	1	1	1	1	0	0	0
172.5	1	0	1	1	1	0	1	0	0	0
175.0	0	0	1	1	1	1	0	0	0	0
177.5	0	0	1	1	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	1179	1179	1179	1179	1179	1179	1179	1179	1179	1179
2.5	1218	1217	1214	1205	1186	1179	1153	1137	1121	1115
5.0	1339	1332	1322	1287	1225	1157	1069	997	943	915
7.5	1523	1514	1495	1411	1274	1157	1051	976	912	869
10.0	1743	1744	1701	1542	1366	1248	1130	1020	909	822
12.5	1977	1966	1899	1649	1492	1373	1201	1015	834	710
15.0	2139	2118	2013	1700	1564	1428	1174	916	699	556
17.5	2161	2126	1964	1666	1546	1307	1008	758	546	398
20.0	2109	2072	1889	1587	1428	1099	801	521	383	295
22.5	2016	1969	1777	1555	1307	891	560	342	321	267
25.0	1909	1868	1705	1529	1171	691	357	308	289	245
27.5	1823	1787	1657	1491	1015	497	320	308	284	235
30.0	1757	1712	1662	1437	840	373	317	305	281	227
32.5	1824	1757	1683	1376	686	351	327	305	271	212
35.0	2008	1939	1797	1320	561	367	326	297	257	200
37.5	2172	2105	1931	1265	539	402	311	269	242	197
40.0	2315	2249	2039	1174	474	453	309	228	220	194
42.5	2515	2411	2154	1053	450	424	294	207	186	183
45.0	2704	2540	2241	963	466	376	301	170	164	141
47.5	2764	2570	2275	852	483	360	338	130	133	122
50.0	2772	2569	2249	769	539	307	336	101	98	104
52.5	2534	2425	2175	702	528	278	286	87	66	47
55.0	2307	2320	2116	631	450	255	198	69	40	31
57.5	2121	2210	2048	615	372	213	146	43	34	25
60.0	2000	2107	1961	588	317	169	69	42	28	21
62.5	1910	1999	1886	460	262	140	52	31	23	19
65.0	1881	1857	1709	345	177	77	46	27	21	18
67.5	1571	1544	1416	233	107	70	39	24	17	15
70.0	1586	1503	1274	170	54	58	37	18	12	11
72.5	1466	1299	1062	109	30	37	24	15	10	9
75.0	1235	1030	737	40	20	24	16	11	9	10
77.5	755	618	452	26	20	20	10	10	11	12

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CANDELA TABULATION - (Cont.)

80.0	395	309	237	17	22	15	11	10	8	9
82.5	166	136	93	12	13	12	10	4	3	2
85.0	40	29	19	5	7	5	4	2	2	1
87.5	2	2	2	1	2	2	2	2	1	0
90.0	1	1	1	1	2	2	2	2	1	0
92.5	1	1	1	1	2	2	2	2	1	0
95.0	1	1	1	1	2	2	2	2	1	0
97.5	1	1	1	2	2	2	2	2	1	0
100.0	1	1	1	2	2	3	2	2	1	0
102.5	1	1	1	2	3	3	3	2	1	0
105.0	1	1	1	2	3	3	3	2	1	1
107.5	1	1	1	2	3	3	3	2	2	1
110.0	1	1	1	2	3	3	3	3	2	1
112.5	1	1	1	2	3	3	3	3	2	1
115.0	1	1	2	2	3	3	3	3	2	1
117.5	1	1	2	2	3	3	3	3	2	1
120.0	1	1	1	2	3	3	3	3	2	1
122.5	1	1	2	3	3	4	3	3	2	1
125.0	1	1	2	2	3	4	3	3	2	1
127.5	1	1	2	2	3	4	4	3	2	2
130.0	1	2	2	3	3	4	4	3	2	2
132.5	1	2	2	3	3	4	4	3	3	2
135.0	1	1	2	3	3	4	4	3	3	2
137.5	1	1	2	2	3	4	3	3	3	2
140.0	1	1	1	2	3	3	3	3	2	1
142.5	1	1	1	2	3	3	3	3	2	1
145.0	1	1	1	2	3	3	3	3	2	1
147.5	1	1	1	2	3	3	3	3	2	1
150.0	1	1	1	2	3	3	3	3	2	1
152.5	1	1	1	2	3	3	3	3	2	2
155.0	1	1	1	2	2	3	3	3	2	1
157.5	1	1	1	2	2	2	3	2	2	1
160.0	1	1	1	2	2	2	2	2	2	1
162.5	1	1	1	1	2	2	2	2	2	1
165.0	0	0	1	1	2	2	2	2	1	1
167.5	0	1	1	1	1	2	2	2	1	1
170.0	0	0	0	1	1	2	2	2	1	0
172.5	0	0	0	1	1	2	2	1	1	0
175.0	0	0	0	1	1	1	1	1	1	0
177.5	0	0	0	1	1	1	1	1	1	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	1179	1179
2.5	1107	1117
5.0	898	906
7.5	844	842
10.0	771	762
12.5	634	622
15.0	470	454
17.5	302	286
20.0	228	210
22.5	204	195
25.0	182	171

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CANDELA TABULATION - (Cont.)

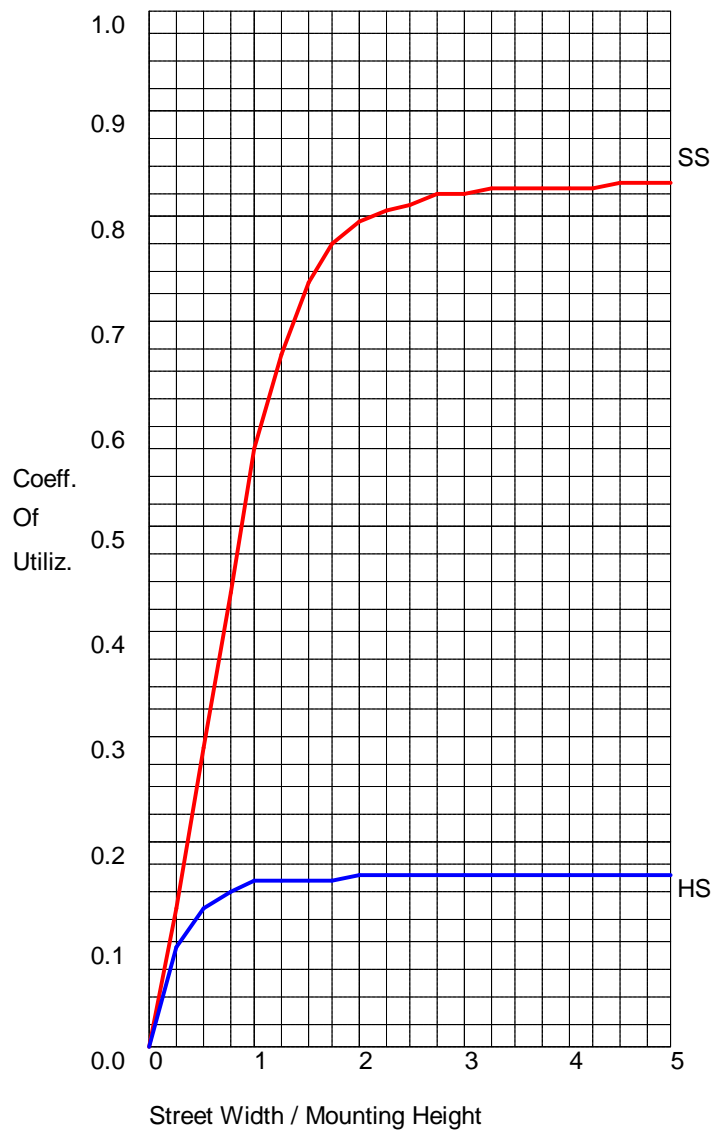
27.5	168	156
30.0	159	149
32.5	142	133
35.0	135	124
37.5	132	122
40.0	131	119
42.5	116	103
45.0	93	84
47.5	87	80
50.0	64	58
52.5	35	35
55.0	29	28
57.5	23	23
60.0	18	17
62.5	18	16
65.0	18	15
67.5	16	14
70.0	12	11
72.5	8	7
75.0	8	7
77.5	8	7
80.0	5	4
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0
92.5	0	0
95.0	0	0
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	1	0
127.5	1	0
130.0	1	1
132.5	1	1
135.0	1	1
137.5	1	1
140.0	1	1
142.5	1	1
145.0	1	1
147.5	1	1
150.0	1	1
152.5	1	1
155.0	1	1
157.5	1	0
160.0	1	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

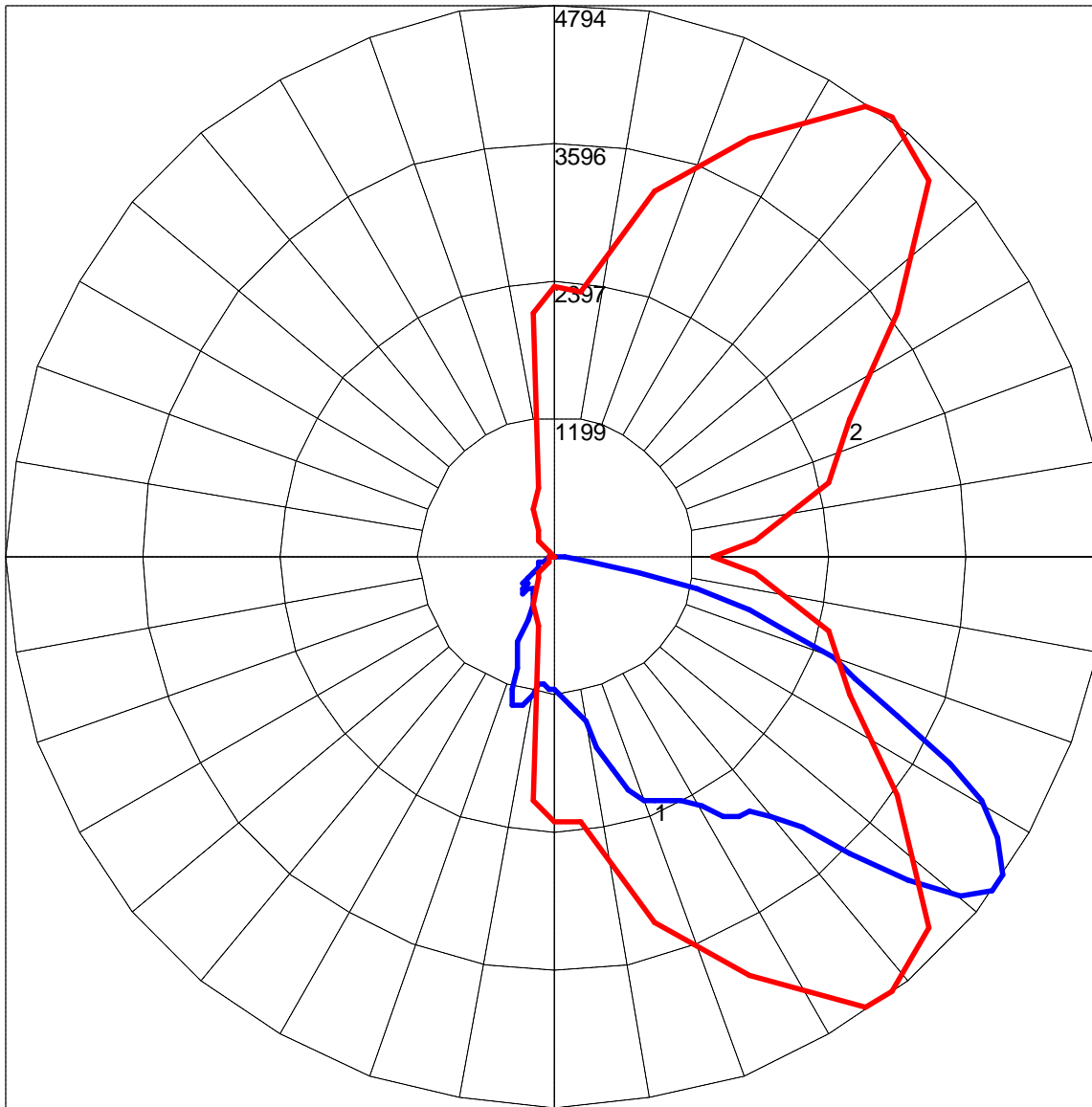
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

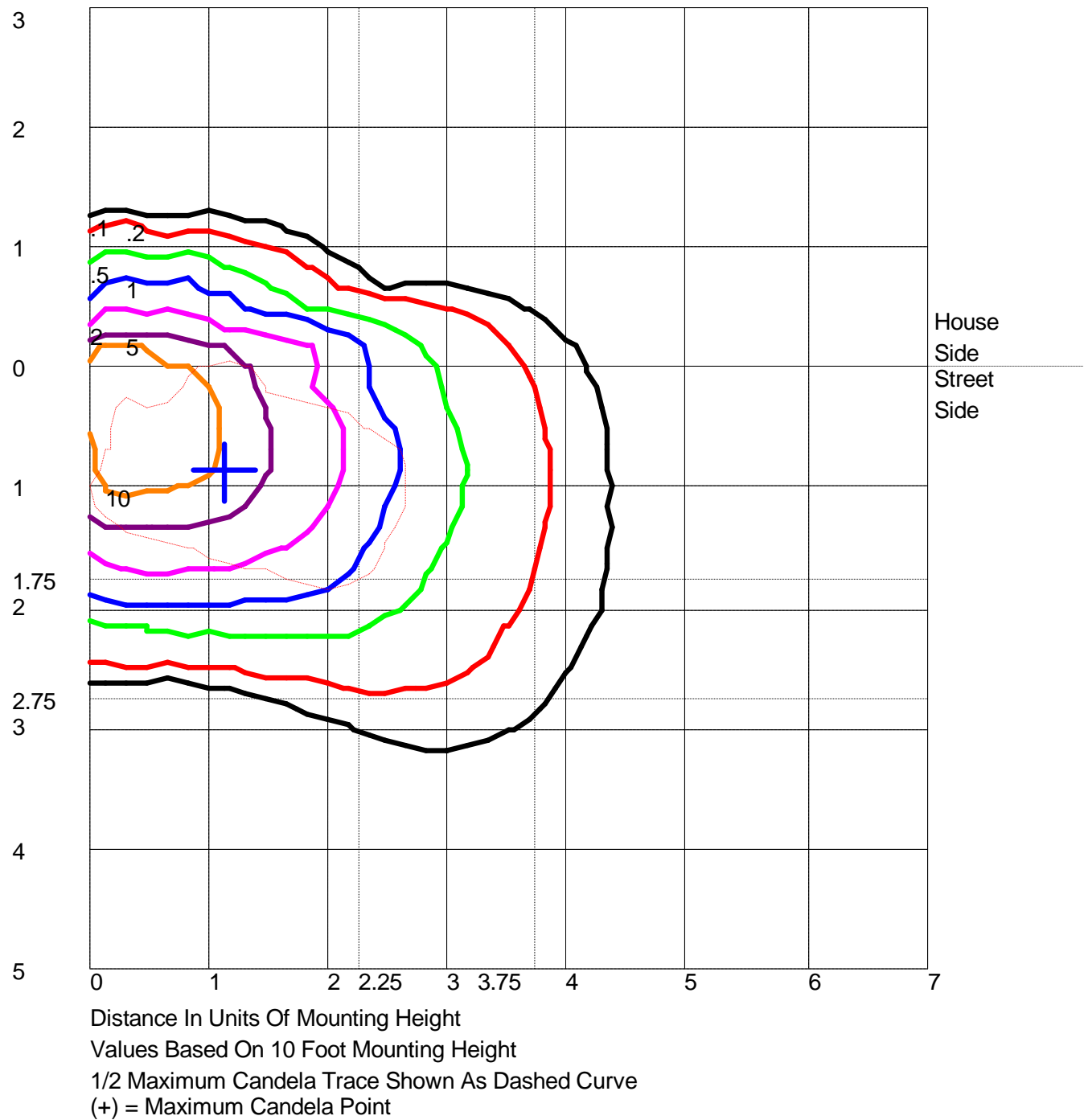
	Lumens	Percent Of Luminaire
Downward Street Side	5925.8	83.4
Downward House Side	1174.2	16.5
Downward Total	7100.0	99.9
Upward Street Side	2.7	0.0
Upward House Side	6.1	0.1
Upward Total	8.8	0.1
Total Flux	7108.8	100.0

POLAR GRAPH

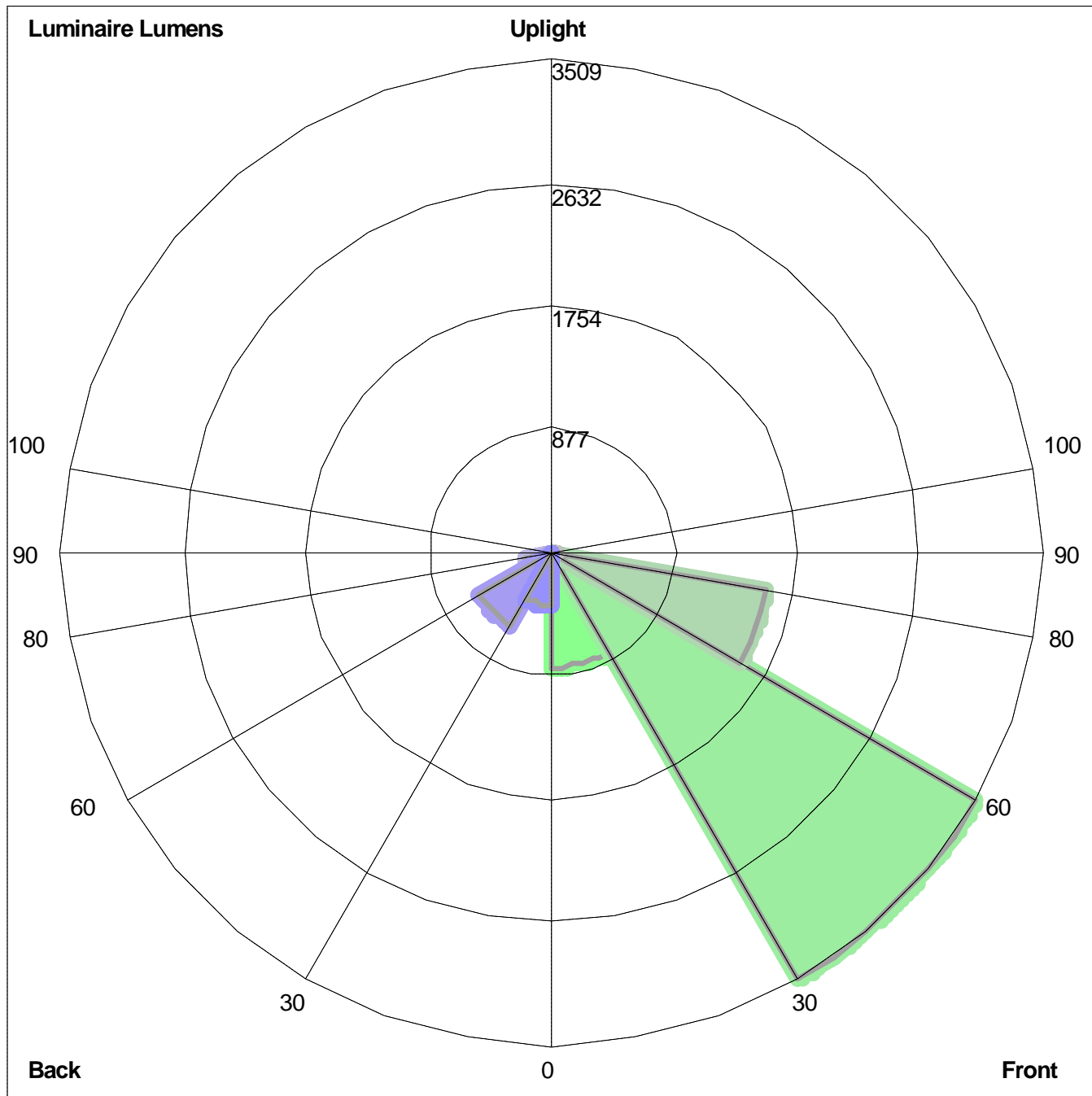


Maximum Candela = 4794 Located At Horizontal Angle = 52.5, Vertical Angle = 55
1 - Vertical Plane Through Horizontal Angles (52.5 - 232.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (55) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=819.2, Medium=3508.9, High=1548.1, Very High=49.6
Back: Low=380.4, Medium=595.1, High=192.7, Very High=6.0
Uplight: Low=1.2, High=7.6

BUG Rating : B1-U1-G1