



IES ROAD REPORT

PHOTOMETRIC FILENAME : XENM3-PT-3-LED-SS-CW.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-4701
[TESTLAB]LSI INDUSTRIES, INC
[ISS DATE]11/13/13
[TESTDATE]11/21/13
[MANUFAC]LSI INDUSTRIES, INC
[LUMCAT]XENM3-PT-3-LED-SS-CW
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[ABSOLUTE]LUMENS]6184
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor

CHARACTERISTICS

IES Classification	Type II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6184
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	88
Total Luminaire Watts	70
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	4465
Maximum Candela Angle	52.5H 52.5V
Maximum Candela (<90 Degrees Vertical)	4465
Maximum Candela Angle (<90 Degrees Vertical)	52.5H 52.5V
Maximum Candela At 90 Degrees Vertical	3 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	713 (11.5% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	633.3	N.A.	10.2
FM - Front-Medium (30-60)	3159.7	N.A.	51.1
FH - Front-High (60-80)	1359.2	N.A.	22.0
FVH - Front-Very High (80-90)	45.5	N.A.	0.7
BL - Back-Low (0-30)	279.4	N.A.	4.5
BM - Back-Medium (30-60)	516.3	N.A.	8.3
BH - Back-High (60-80)	173.8	N.A.	2.8
BVH - Back-Very High (80-90)	6.2	N.A.	0.1
UL - Uplight-Low (90-100)	1.8	N.A.	0.0
UH - Uplight-High (100-180)	8.8	N.A.	0.1
Total	6184.0	N.A.	100.0
BUG Rating	B1-U1-G1		

IES ROAD REPORT
PHOTOMETRIC FILENAME : XENM3-PT-3-LED-SS-CW.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>52.5</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	801	801	801	801	801	801	801	801	801	801
2.5	768	775	763	758	759	770	763	759	762	776
5.0	659	669	684	672	668	670	690	703	720	714
7.5	742	729	674	681	680	699	698	715	765	771
10.0	835	821	769	809	826	877	861	864	873	954
12.5	945	918	876	938	1018	1099	1132	1123	1120	1128
15.0	1056	998	1009	1106	1265	1366	1432	1421	1382	1270
17.5	1172	1106	1191	1333	1545	1617	1649	1649	1628	1482
20.0	1279	1221	1371	1632	1843	1869	1829	1793	1726	1641
22.5	1307	1309	1510	1934	2112	2065	1899	1840	1758	1672
25.0	1419	1377	1651	2142	2242	2113	2016	1941	1732	1592
27.5	1432	1465	1834	2326	2227	2212	2079	1999	1670	1549
30.0	1397	1455	1966	2376	2210	2265	2162	2104	1738	1539
32.5	1360	1451	2184	2450	2350	2364	2320	2299	1919	1597
35.0	1422	1561	2401	2509	2531	2541	2524	2483	2151	1907
37.5	1518	1741	2703	2603	2854	2711	2600	2598	2500	2229
40.0	1722	1963	2927	2795	3056	3011	2795	2755	2817	2556
42.5	1989	2186	3059	2873	3131	3423	3123	3014	3148	2907
45.0	2180	2365	3145	2909	3218	3840	3577	3447	3415	3130
47.5	2200	2430	3159	2910	3290	4095	4058	3912	3601	3301
50.0	1736	2094	2787	2828	3350	4211	4369	4287	3693	3283
52.5	1629	1989	2466	2467	3281	4185	4465	4427	3720	3215
55.0	1118	1495	2010	2262	2945	4083	4373	4377	3688	3080
57.5	1068	1332	1629	1809	2692	3832	4110	4126	3590	2934
60.0	1064	1295	1450	1600	2268	3329	3794	3835	3463	2820
62.5	561	816	1065	1485	1996	2892	3272	3391	3228	2799
65.0	532	598	650	971	1771	2355	2745	2803	3124	2838
67.5	194	228	410	706	1123	2174	2476	2587	2761	2387
70.0	31	34	53	223	883	1837	2298	2209	2264	2328
72.5	22	24	30	77	490	1527	1863	1925	2089	2093
75.0	17	18	24	61	379	1142	1643	1687	1713	1696
77.5	11	12	16	29	311	888	1175	1222	1238	1048
80.0	7	8	11	18	213	547	669	713	642	517
82.5	5	5	6	10	79	196	268	284	274	202
85.0	3	3	4	5	14	27	47	60	67	39
87.5	1	1	2	2	4	4	3	3	3	2
90.0	1	1	2	2	3	3	3	2	2	2
92.5	1	1	1	2	2	2	2	2	2	2
95.0	1	1	1	1	2	2	2	2	2	2
97.5	1	1	1	1	2	2	2	2	1	1
100.0	1	1	1	1	2	2	1	2	1	1
102.5	1	1	1	1	2	1	1	1	1	1
105.0	1	1	1	1	2	1	1	1	1	1
107.5	1	1	1	1	2	1	1	1	1	1
110.0	1	1	1	1	2	1	1	1	1	1
112.5	1	1	1	1	2	1	1	1	1	1
115.0	1	1	1	2	2	2	1	1	1	1
117.5	1	1	1	2	2	2	2	2	1	1
120.0	1	1	1	2	2	2	2	2	1	1
122.5	1	1	1	2	2	2	2	2	1	2
125.0	1	1	1	2	2	2	2	2	1	2
127.5	1	1	2	2	2	2	2	2	2	2
130.0	2	1	1	2	2	2	2	2	2	2

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

CANDELA TABULATION - (Cont.)

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

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	801	801	801	801	801	801	801	801	801	801
2.5	774	768	774	764	760	780	810	810	819	814
5.0	694	705	732	734	698	723	669	647	646	653
7.5	814	815	813	789	750	719	659	607	567	531
10.0	978	1042	1021	912	832	766	717	648	613	508
12.5	1172	1218	1248	1078	992	904	799	693	603	462
15.0	1358	1423	1381	1156	1076	1005	870	686	540	425
17.5	1454	1499	1465	1206	1137	1022	817	655	428	318
20.0	1477	1514	1451	1162	1065	928	666	458	319	218
22.5	1468	1458	1378	1128	996	785	491	291	242	183
25.0	1400	1376	1282	1107	943	634	324	239	205	174
27.5	1373	1331	1277	1124	859	476	257	228	211	179
30.0	1325	1296	1252	1158	762	351	249	235	215	178
32.5	1388	1378	1299	1148	661	304	264	240	209	180
35.0	1658	1600	1483	1197	576	307	272	250	205	177
37.5	1861	1736	1595	1167	528	336	266	234	203	181
40.0	2024	1877	1688	1089	445	380	276	201	188	185
42.5	2265	2033	1813	1012	385	348	273	181	164	177
45.0	2482	2138	1906	926	402	321	272	152	146	142
47.5	2509	2186	1941	819	437	303	295	118	125	119
50.0	2525	2157	1939	712	455	256	287	93	97	109
52.5	2288	2027	1873	615	424	226	254	79	67	59
55.0	2096	1955	1839	528	364	211	181	67	41	33
57.5	1926	1886	1772	510	322	181	126	43	33	27
60.0	1793	1802	1673	491	282	146	71	42	27	22
62.5	1739	1718	1659	391	236	127	52	30	22	19
65.0	1705	1642	1523	282	166	73	46	26	20	19
67.5	1470	1399	1275	187	104	67	37	24	18	17
70.0	1531	1392	1140	129	48	54	35	21	16	14
72.5	1444	1252	979	96	28	35	26	17	14	12
75.0	1248	1003	660	39	19	27	18	14	13	12
77.5	803	626	390	24	23	24	14	11	13	14

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

CANDELA TABULATION - (Cont.)

80.0	394	308	199	16	26	16	11	10	11	12
82.5	167	140	80	14	17	9	9	6	6	7
85.0	31	31	14	6	6	5	4	3	3	3
87.5	2	2	2	2	2	2	3	2	3	2
90.0	2	2	2	2	2	2	3	2	2	1
92.5	2	2	2	2	2	2	2	2	2	1
95.0	2	2	2	2	2	2	3	2	2	1
97.5	1	1	1	2	2	3	3	2	2	1
100.0	1	1	2	2	2	3	3	2	2	1
102.5	1	1	1	2	2	3	3	2	2	1
105.0	1	1	1	2	3	3	3	2	2	1
107.5	1	1	1	2	2	3	3	2	2	1
110.0	1	1	2	2	3	3	3	3	2	1
112.5	1	1	2	2	3	3	3	2	2	1
115.0	1	2	2	3	3	3	3	3	2	1
117.5	2	2	2	3	3	3	3	3	2	1
120.0	2	2	2	3	3	3	3	3	2	1
122.5	2	2	2	3	3	3	3	3	3	2
125.0	2	2	2	3	3	4	3	3	3	2
127.5	2	2	2	3	3	4	3	3	3	2
130.0	2	2	2	3	3	3	3	3	3	2
132.5	2	2	2	3	3	3	3	3	3	2
135.0	2	2	2	3	3	3	3	3	3	2
137.5	1	2	2	2	3	3	3	3	3	2
140.0	1	1	1	2	3	3	3	3	2	2
142.5	1	1	1	2	2	3	3	3	2	1
145.0	1	1	1	2	2	3	3	3	2	1
147.5	1	1	1	2	2	3	3	3	2	1
150.0	1	1	1	2	2	3	3	3	2	2
152.5	1	1	1	2	2	3	3	3	2	2
155.0	1	1	1	2	2	3	3	2	2	2
157.5	1	1	1	2	2	2	3	2	2	1
160.0	1	1	1	2	2	2	3	2	2	1
162.5	1	1	1	1	2	2	2	2	2	1
165.0	1	1	1	1	2	2	2	2	2	1
167.5	1	1	1	1	2	2	2	2	2	1
170.0	0	0	1	1	1	2	2	2	1	1
172.5	0	0	0	1	1	2	2	1	1	0
175.0	0	0	0	1	1	2	2	1	1	0
177.5	0	0	0	1	1	1	1	1	1	0
180.0	1	1	1	1	1	1	1	1	1	1

Vert. Horizontal Angles

	<u>175.0</u>	<u>180.0</u>
0.0	801	801
2.5	815	816
5.0	690	691
7.5	622	626
10.0	546	543
12.5	467	516
15.0	344	356
17.5	235	225
20.0	157	151
22.5	136	128
25.0	129	120

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

CANDELA TABULATION - (Cont.)

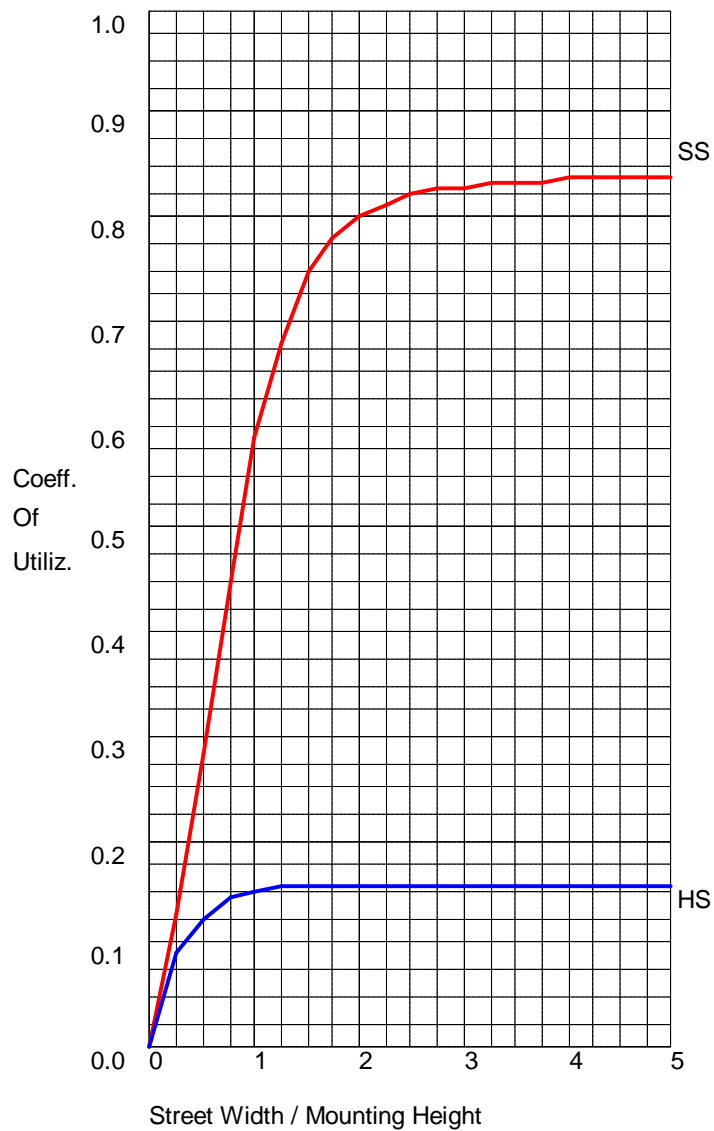
27.5	128	119
30.0	132	119
32.5	126	121
35.0	125	115
37.5	125	114
40.0	124	113
42.5	112	99
45.0	91	81
47.5	83	75
50.0	66	59
52.5	37	37
55.0	29	29
57.5	25	24
60.0	19	19
62.5	18	17
65.0	18	16
67.5	17	14
70.0	13	14
72.5	11	10
75.0	10	9
77.5	10	9
80.0	8	7
82.5	4	4
85.0	2	2
87.5	1	0
90.0	0	0
92.5	0	0
95.0	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	1	0
117.5	1	0
120.0	1	1
122.5	1	1
125.0	1	1
127.5	1	1
130.0	1	1
132.5	1	1
135.0	2	2
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	1
160.0	1	1
162.5	0	0
165.0	0	0

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

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

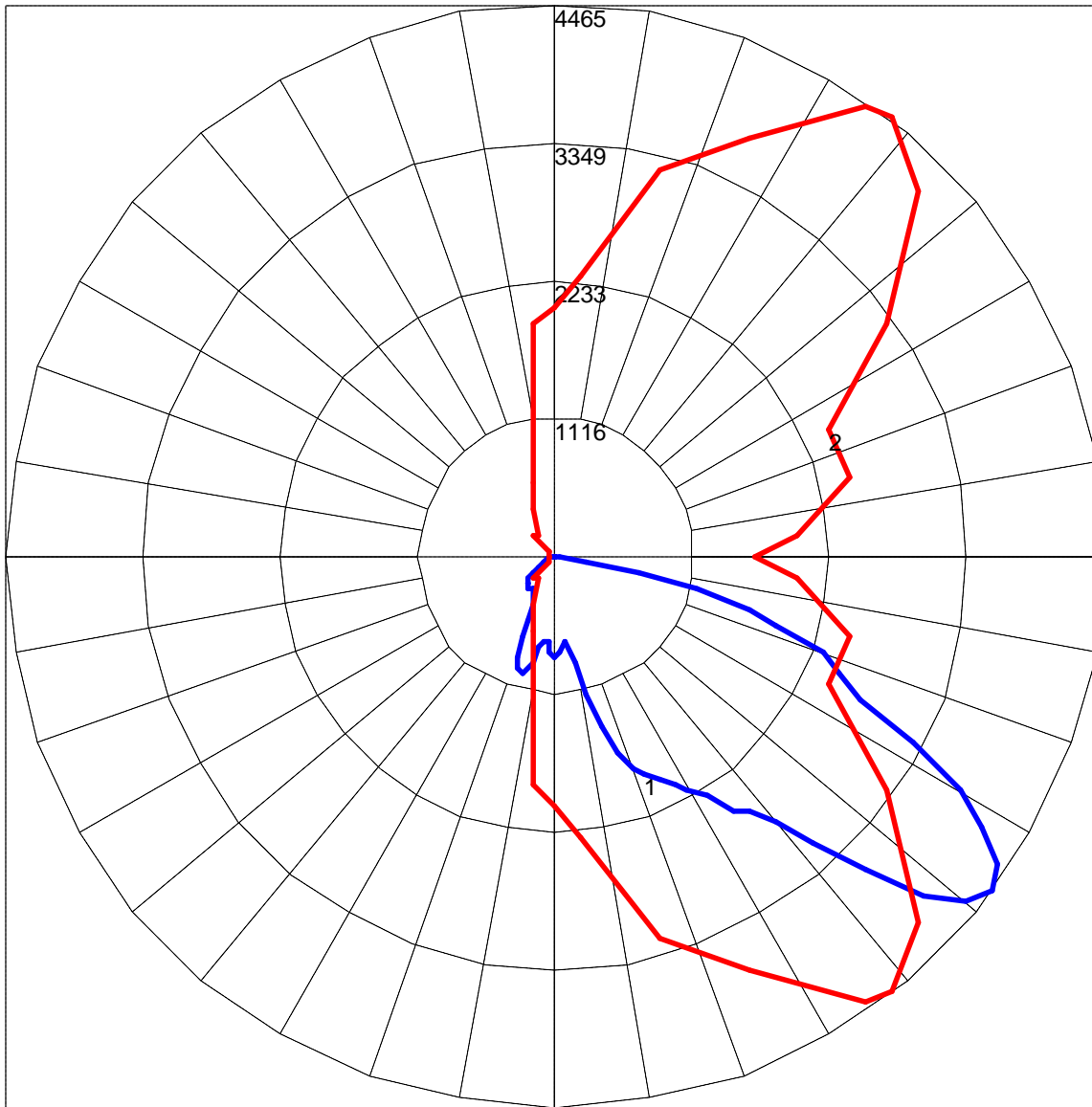
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

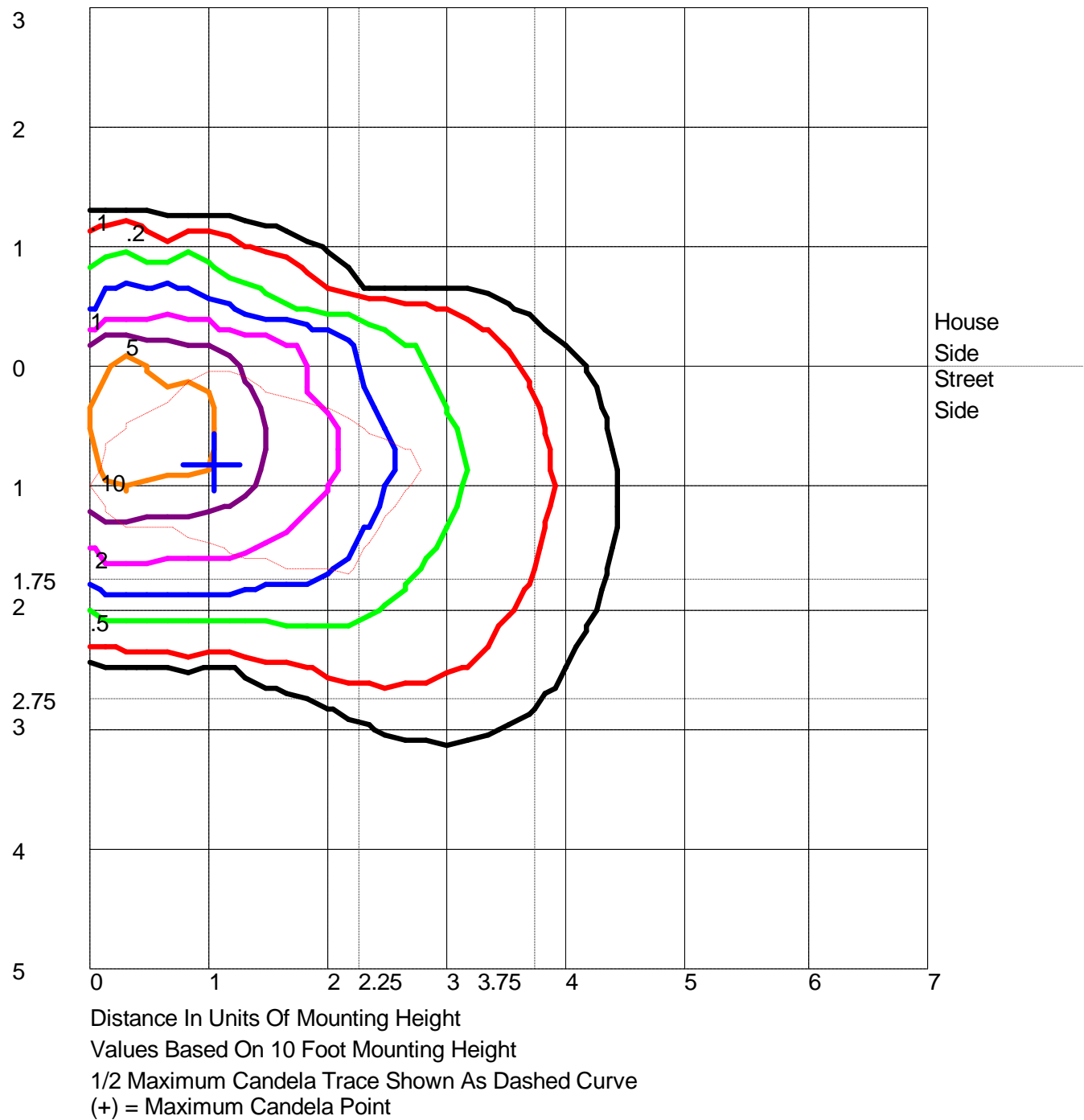
	Lumens	Percent Of Luminaire
Downward Street Side	5197.7	84.1
Downward House Side	975.6	15.8
Downward Total	6173.3	99.8
Upward Street Side	4.1	0.1
Upward House Side	6.5	0.1
Upward Total	10.6	0.2
Total Flux	6183.9	100.0

POLAR GRAPH

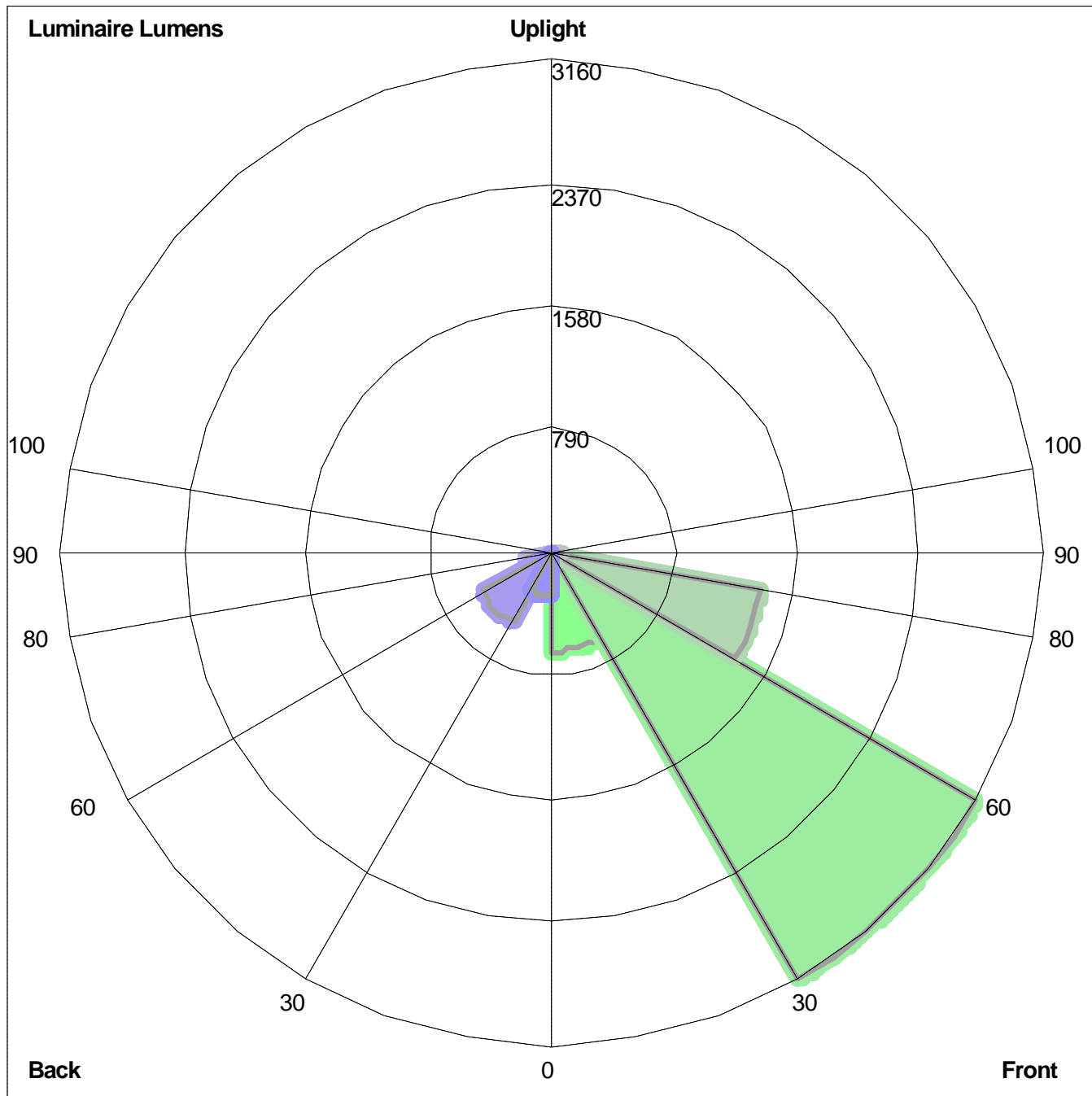


Maximum Candela = 4465 Located At Horizontal Angle = 52.5, Vertical Angle = 52.5
1 - Vertical Plane Through Horizontal Angles (52.5 - 232.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (52.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=633.3, Medium=3159.7, High=1359.2, Very High=45.5
Back: Low=279.4, Medium=516.3, High=173.8, Very High=6.2
Uplight: Low=1.8, High=8.8

BUG Rating : B1-U1-G1