



IES ROAD REPORT

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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-4768
[TESTLAB]LSI INDUSTRIES, INC
[ISS DATE]11/22/13
[TESTDATE]11/22/13
[MANUFAC]LSI INDUSTRIES, INC
[LUMCAT]XENM3-PT-3-LED-HO-CW
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[ABSOLUTE]LUMENS]8669
[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	8669
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	80
Total Luminaire Watts	108
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	6075
Maximum Candela Angle	52.5H 55V
Maximum Candela (<90 Degrees Vertical)	6075
Maximum Candela Angle (<90 Degrees Vertical)	52.5H 55V
Maximum Candela At 90 Degrees Vertical	4 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	948 (10.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	859.7	N.A.	9.9
FM - Front-Medium (30-60)	4353.6	N.A.	50.2
FH - Front-High (60-80)	1991.8	N.A.	23.0
FVH - Front-Very High (80-90)	62.7	N.A.	0.7
BL - Back-Low (0-30)	395.6	N.A.	4.6
BM - Back-Medium (30-60)	734.7	N.A.	8.5
BH - Back-High (60-80)	249.0	N.A.	2.9
BVH - Back-Very High (80-90)	8.1	N.A.	0.1
UL - Uplight-Low (90-100)	2.5	N.A.	0.0
UH - Uplight-High (100-180)	11.5	N.A.	0.1
Total	8669.2	N.A.	100.0
BUG Rating	B1-U2-G2		

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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	1142	1142	1142	1142	1142	1142	1142	1142	1142	1142
2.5	1162	1156	1140	1146	1153	1133	1143	1133	1116	1116
5.0	1065	1057	1003	984	986	996	1019	1032	1017	995
7.5	1043	1037	931	937	927	959	1019	1049	1102	1137
10.0	1118	1113	1057	1123	1124	1144	1170	1171	1277	1375
12.5	1298	1239	1184	1275	1367	1477	1517	1512	1529	1656
15.0	1426	1346	1328	1474	1699	1839	1937	1912	1821	1822
17.5	1555	1487	1573	1734	2008	2146	2263	2240	2213	2061
20.0	1740	1668	1786	2146	2397	2435	2487	2474	2359	2217
22.5	1800	1787	2002	2514	2823	2771	2529	2469	2377	2275
25.0	1927	1911	2224	2837	3034	2832	2628	2520	2337	2171
27.5	2024	2032	2465	3183	3089	2918	2733	2603	2250	2132
30.0	2018	2045	2650	3365	3081	3045	2826	2768	2279	2111
32.5	1954	2027	2908	3399	3286	3213	3076	2993	2451	2232
35.0	2000	2099	3204	3484	3447	3499	3436	3332	2766	2621
37.5	2123	2290	3600	3552	3798	3641	3588	3557	3261	2989
40.0	2397	2601	3944	3800	4214	3984	3831	3815	3626	3288
42.5	2773	2922	4226	4001	4315	4446	4161	4089	4085	3768
45.0	3012	3193	4389	4020	4467	5006	4657	4523	4579	4070
47.5	3119	3325	4489	4076	4603	5430	5269	5121	4897	4307
50.0	2548	2889	4077	4079	4730	5733	5770	5670	5135	4288
52.5	2424	2807	3476	3596	4682	5837	6031	5962	5160	4308
55.0	1946	2404	3094	3289	4286	5830	6075	6034	5071	4174
57.5	1527	1861	2371	2815	3913	5579	5849	5807	4974	4000
60.0	1534	1790	2090	2277	3525	4868	5480	5500	4862	3953
62.5	873	1210	1655	2144	2925	4302	4885	5039	4618	3967
65.0	665	838	937	1471	2656	3555	4151	4229	4526	4077
67.5	526	560	760	1045	1689	3184	3698	3919	4173	3466
70.0	48	52	102	531	1315	2771	3416	3320	3373	3306
72.5	29	32	44	158	829	2251	2724	2808	3102	2964
75.0	23	25	32	100	590	1667	2362	2420	2503	2395
77.5	15	17	24	48	471	1305	1662	1737	1714	1424
80.0	10	10	16	31	334	832	942	948	849	709
82.5	6	7	9	14	136	309	396	403	339	273
85.0	4	4	5	6	23	52	74	85	71	46
87.5	2	2	2	3	5	6	5	5	4	3
90.0	1	1	2	3	4	4	4	4	3	2
92.5	1	1	2	2	3	4	3	3	3	2
95.0	1	1	2	2	3	3	3	3	2	2
97.5	1	1	1	2	2	2	2	2	2	2
100.0	1	1	1	1	2	2	2	2	2	1
102.5	1	1	1	1	2	2	2	2	1	1
105.0	1	1	1	1	2	2	2	2	1	1
107.5	1	1	1	1	2	2	1	1	1	1
110.0	1	1	1	2	2	2	2	2	1	1
112.5	1	1	1	2	2	2	2	2	1	1
115.0	1	1	1	2	2	2	2	2	2	2
117.5	1	1	1	2	2	2	2	2	2	2
120.0	1	1	2	2	2	2	2	2	2	2
122.5	1	1	2	2	2	2	2	2	2	2
125.0	2	2	2	2	3	2	2	2	2	2
127.5	2	2	2	2	2	2	2	2	2	2
130.0	2	2	2	2	3	3	3	3	2	2

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CANDELA TABULATION - (Cont.)

132.5	2	2	2	2	2	3	2	2	2	2
135.0	2	2	2	2	2	2	2	2	2	2
137.5	1	1	1	1	2	2	2	2	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	0	1	0	1
165.0	0	0	1	1	1	1	1	0	1	1
167.5	0	0	1	1	1	1	0	0	0	0
170.0	0	0	1	1	1	1	0	0	0	0
172.5	0	0	1	1	1	1	0	0	0	0
175.0	0	0	1	1	1	0	0	0	0	0
177.5	0	0	1	1	1	1	1	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	1142	1142	1142	1142	1142	1142	1142	1142	1142	1142
2.5	1089	1073	1092	1097	1124	1097	1095	1101	1118	1124
5.0	1032	1059	1041	996	1011	944	893	869	860	883
7.5	1133	1135	1109	1112	1033	934	886	833	754	773
10.0	1385	1415	1402	1254	1143	1019	964	885	826	724
12.5	1655	1728	1666	1475	1362	1244	1090	953	832	660
15.0	1961	1960	1908	1601	1514	1416	1219	968	751	610
17.5	2088	2101	1993	1695	1625	1488	1165	921	620	441
20.0	2101	2095	1939	1637	1541	1375	1027	692	465	319
22.5	2069	1990	1840	1584	1490	1163	798	464	327	237
25.0	1971	1903	1728	1594	1415	951	513	336	286	233
27.5	1923	1819	1769	1643	1288	730	381	325	290	236
30.0	1858	1799	1797	1660	1153	545	351	330	295	237
32.5	1987	1905	1854	1690	1025	447	375	334	289	238
35.0	2339	2217	2059	1788	909	434	378	330	287	238
37.5	2578	2394	2231	1731	833	491	364	303	276	249
40.0	2758	2559	2347	1640	664	554	374	267	256	250
42.5	3057	2771	2518	1533	555	492	371	242	224	219
45.0	3322	2924	2655	1425	566	430	370	207	194	172
47.5	3451	3034	2732	1260	592	396	390	161	160	162
50.0	3519	3028	2785	1099	629	328	391	123	137	138
52.5	3223	2877	2715	931	615	293	333	109	92	63
55.0	2979	2801	2686	764	543	273	236	88	53	40
57.5	2752	2710	2616	730	446	224	180	55	42	33
60.0	2604	2573	2496	688	374	187	101	52	36	26
62.5	2536	2486	2488	528	303	165	72	40	29	26
65.0	2499	2401	2296	399	209	92	59	35	25	24
67.5	2160	2063	1926	287	130	83	50	31	22	21
70.0	2199	1998	1695	197	66	66	48	27	20	17
72.5	2003	1719	1424	141	36	45	32	24	18	15
75.0	1684	1359	968	57	25	37	23	17	16	16
77.5	1057	811	547	33	33	31	17	12	17	19

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CANDELA TABULATION - (Cont.)

80.0	497	388	280	22	34	20	13	12	14	16
82.5	203	169	117	19	20	12	12	7	8	8
85.0	25	17	18	7	7	7	6	4	4	3
87.5	2	2	2	2	3	3	3	3	3	2
90.0	2	2	2	2	3	3	3	3	3	2
92.5	2	2	2	3	3	3	3	3	3	2
95.0	2	2	2	3	3	3	3	3	3	1
97.5	2	2	2	3	3	4	4	3	2	1
100.0	1	2	2	3	3	4	4	3	2	1
102.5	1	2	2	3	4	4	4	3	2	1
105.0	1	2	2	3	4	4	4	3	3	1
107.5	1	2	2	3	4	4	4	3	3	1
110.0	2	2	2	3	4	4	4	4	3	2
112.5	2	2	2	3	4	4	4	4	3	2
115.0	2	2	3	3	4	4	4	4	3	2
117.5	2	2	3	3	4	4	4	4	3	2
120.0	2	2	3	4	4	5	5	4	3	2
122.5	2	3	3	4	4	5	5	4	3	2
125.0	2	3	3	4	5	5	5	5	4	2
127.5	2	3	3	4	5	5	5	5	4	2
130.0	3	3	3	4	5	5	5	5	4	2
132.5	3	3	3	4	4	5	5	4	4	2
135.0	2	3	3	4	4	5	5	4	4	2
137.5	2	2	2	3	4	4	4	4	3	2
140.0	1	1	2	3	4	4	4	4	3	2
142.5	1	1	2	3	3	4	4	4	3	2
145.0	1	1	2	2	3	4	4	4	3	2
147.5	1	1	2	2	3	4	4	4	3	2
150.0	1	1	2	2	3	4	4	3	3	2
152.5	1	1	2	2	3	4	4	3	3	2
155.0	1	1	2	2	3	3	4	3	3	2
157.5	1	1	2	2	3	3	3	3	3	2
160.0	1	1	2	2	3	3	3	3	2	2
162.5	1	1	1	2	2	3	3	3	2	1
165.0	1	1	1	2	2	3	3	2	2	1
167.5	0	1	1	1	2	2	2	2	2	1
170.0	0	0	1	1	2	2	2	2	1	1
172.5	0	0	0	1	2	2	2	2	1	0
175.0	0	0	0	1	2	2	2	2	1	0
177.5	0	0	0	1	1	2	2	1	1	0
180.0	1	1	1	1	1	1	1	1	1	1

Vert. Horizontal Angles
Angles

	<u>175.0</u>	<u>180.0</u>
0.0	1142	1142
2.5	1110	1109
5.0	918	935
7.5	846	867
10.0	707	751
12.5	664	707
15.0	521	531
17.5	345	338
20.0	236	223
22.5	182	165
25.0	173	158

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CANDELA TABULATION - (Cont.)

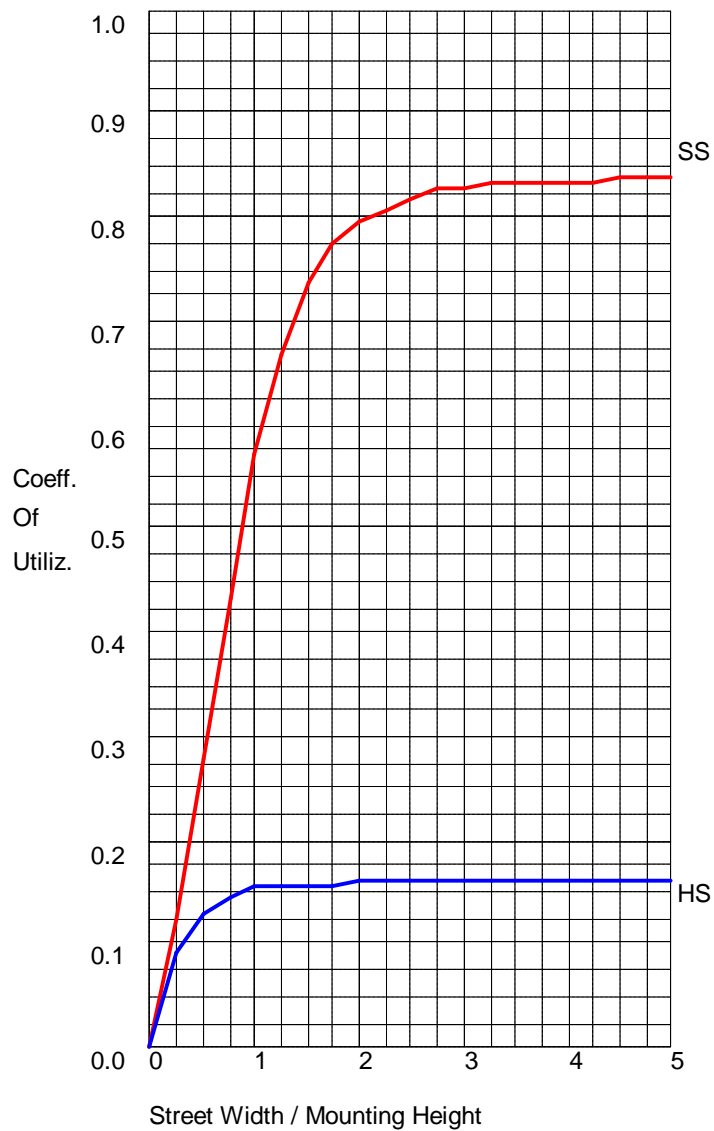
27.5	173	164
30.0	178	164
32.5	172	162
35.0	172	158
37.5	174	159
40.0	169	153
42.5	141	123
45.0	118	106
47.5	115	103
50.0	81	74
52.5	45	46
55.0	36	35
57.5	29	29
60.0	24	23
62.5	24	22
65.0	23	20
67.5	20	18
70.0	17	16
72.5	13	11
75.0	12	11
77.5	13	10
80.0	10	8
82.5	5	4
85.0	1	1
87.5	1	0
90.0	0	0
92.5	0	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	2	2
132.5	2	2
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

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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

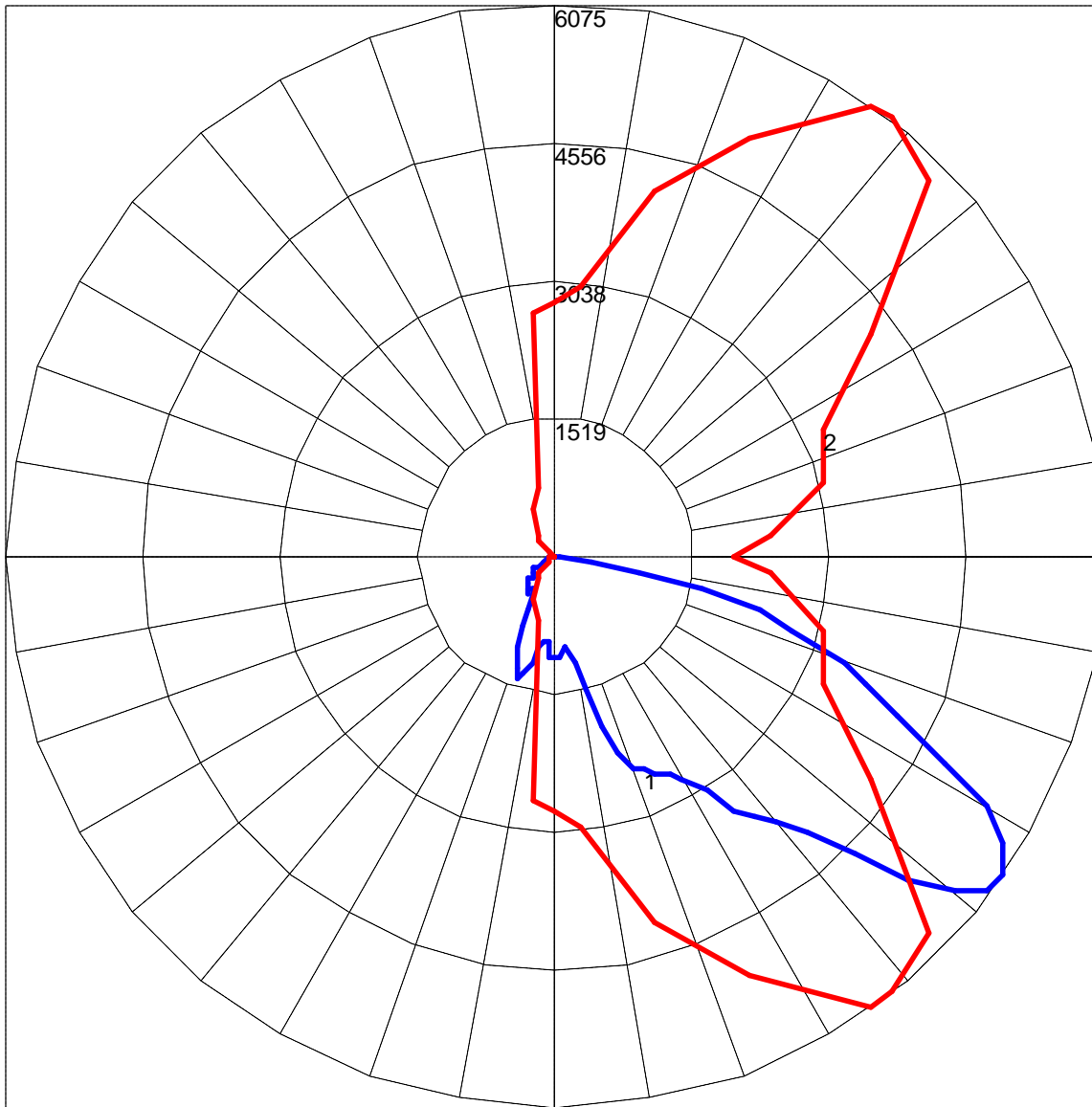
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

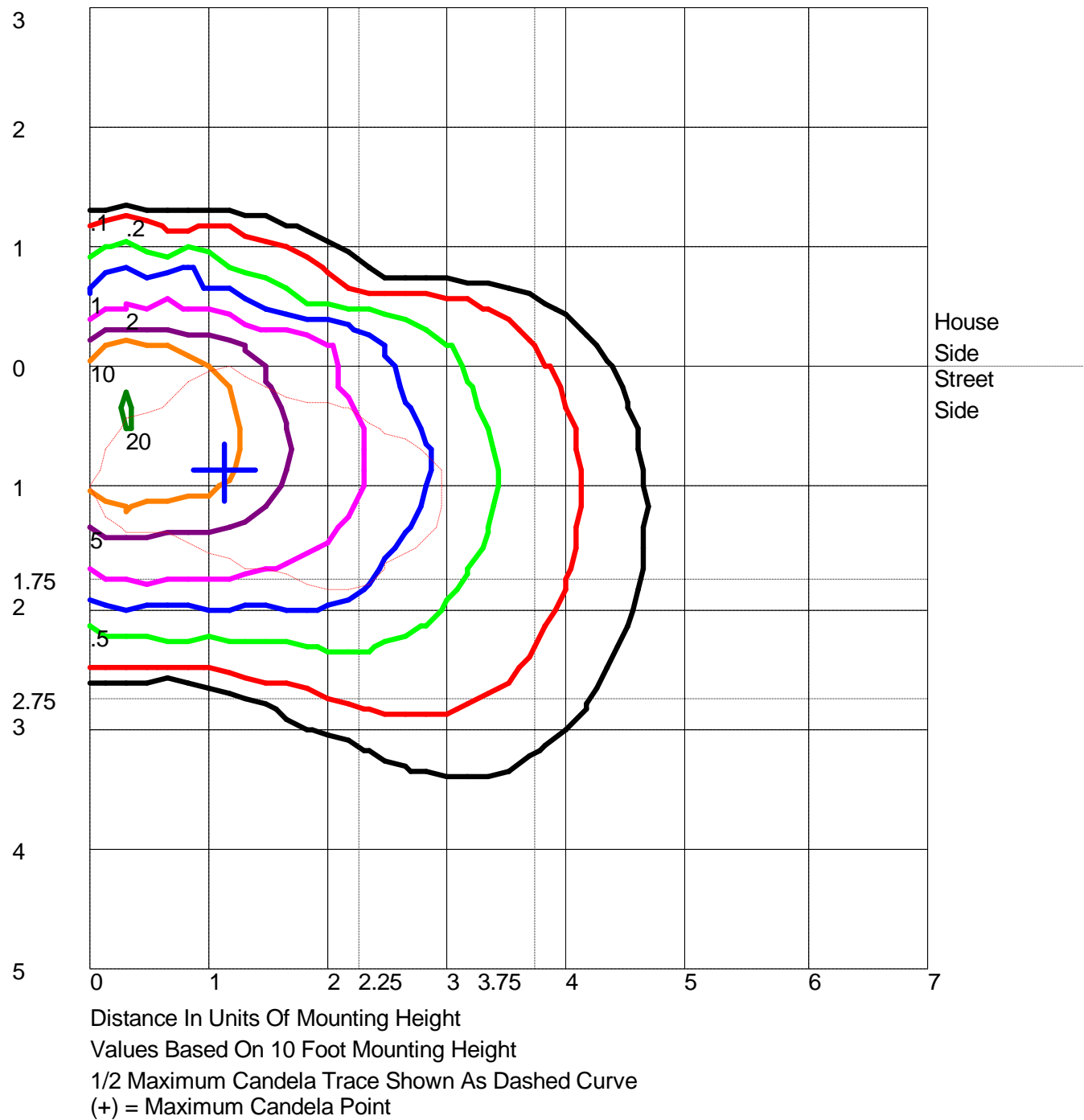
	Lumens	Percent Of Luminaire
Downward Street Side	7267.8	83.8
Downward House Side	1387.3	16.0
Downward Total	8655.1	99.8
Upward Street Side	5.0	0.1
Upward House Side	9.0	0.1
Upward Total	14.0	0.2
Total Flux	8669.1	100.0

POLAR GRAPH

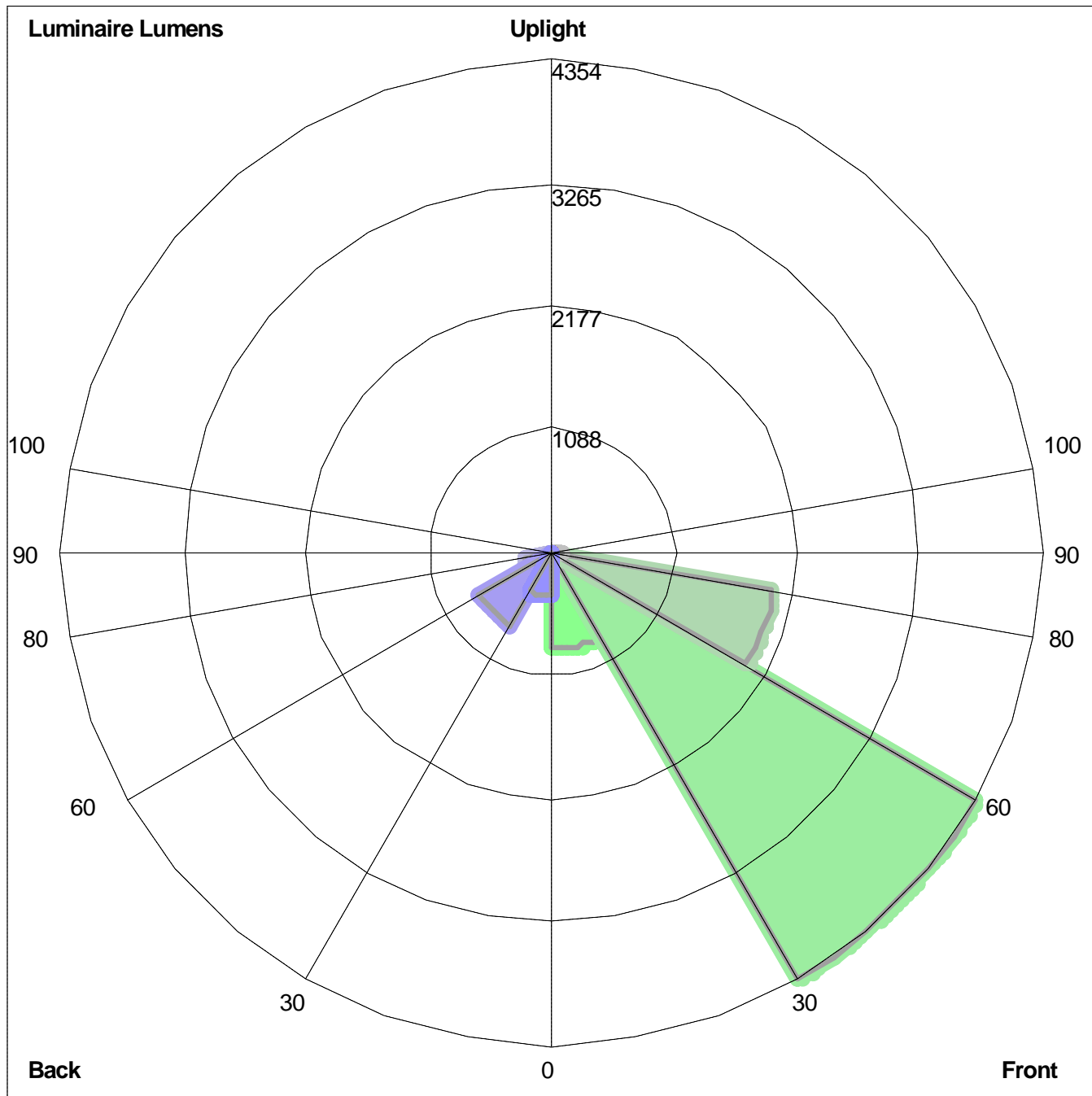


Maximum Candela = 6075 Located At Horizontal Angle = 52.5, Vertical Angle = 55
1 - Vertical Plane Through Horizontal Angles (52.5 - 232.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (55) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=859.7, Medium=4353.6, High=1991.8, Very High=62.7
Back: Low=395.6, Medium=734.7, High=249.0, Very High=8.1
Uplight: Low=2.5, High=11.5

BUG Rating : B1-U2-G2