



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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-4785
[TESTLAB]LSI INDUSTRIES, INC
[ISS DATE]11/25/13
[TESTDATE]11/25/13
[MANUFAC]LSI INDUSTRIES, INC
[LUMCAT]XENM3-PT-3-LED-SS-NW
[_ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[_ABSOLUTE]LUMENS]5930
[_SEARCH_SOURCE]TYPE] 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	5930
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	85
Total Luminaire Watts	70
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	4210
Maximum Candela Angle	55H 52.5V
Maximum Candela (<90 Degrees Vertical)	4210
Maximum Candela Angle (<90 Degrees Vertical)	55H 52.5V
Maximum Candela At 90 Degrees Vertical	2 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	726 (12.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	597.7	N.A.	10.1
FM - Front-Medium (30-60)	3046.6	N.A.	51.4
FH - Front-High (60-80)	1292.5	N.A.	21.8
FVH - Front-Very High (80-90)	58.2	N.A.	1.0
BL - Back-Low (0-30)	274.5	N.A.	4.6
BM - Back-Medium (30-60)	487.8	N.A.	8.2
BH - Back-High (60-80)	157.4	N.A.	2.7
BVH - Back-Very High (80-90)	6.6	N.A.	0.1
UL - Uplight-Low (90-100)	1.4	N.A.	0.0
UH - Uplight-High (100-180)	7.2	N.A.	0.1
Total	5929.9	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>55.0</u>	<u>57.5</u>	<u>65.0</u>	<u>75.0</u>
0.0	809	809	809	809	809	809	809	809	809	809
2.5	804	802	796	797	819	836	845	840	818	812
5.0	706	716	723	720	702	724	723	721	754	742
7.5	671	685	667	624	653	702	765	771	807	829
10.0	754	745	712	744	778	806	823	826	906	958
12.5	860	844	816	920	981	1023	1041	1040	1059	1126
15.0	959	938	942	1049	1158	1292	1288	1272	1230	1229
17.5	1032	1009	1086	1232	1400	1470	1498	1498	1443	1334
20.0	1170	1149	1284	1508	1661	1666	1664	1636	1562	1427
22.5	1264	1272	1475	1772	1875	1842	1682	1672	1643	1505
25.0	1391	1393	1661	1989	2056	1886	1730	1693	1669	1532
27.5	1466	1521	1836	2208	2076	1990	1839	1784	1648	1532
30.0	1497	1582	1988	2317	2118	2105	1945	1866	1667	1550
32.5	1494	1614	2158	2298	2229	2246	2129	2039	1796	1671
35.0	1553	1708	2330	2372	2378	2474	2361	2300	2053	1987
37.5	1656	1840	2536	2424	2639	2628	2564	2541	2414	2309
40.0	1811	2031	2724	2559	2821	2863	2774	2772	2744	2617
42.5	2036	2234	2891	2694	2882	3178	3020	3014	3081	2877
45.0	2228	2423	2956	2719	2963	3503	3403	3346	3340	2980
47.5	2318	2514	3001	2736	3030	3676	3801	3704	3526	3063
50.0	1944	2232	2811	2716	3110	3785	4102	4044	3641	3009
52.5	1824	2087	2409	2451	3105	3771	4210	4177	3658	2915
55.0	1542	1845	2189	2227	2844	3733	4155	4132	3664	2842
57.5	1189	1414	1665	1911	2574	3610	3937	3939	3623	2777
60.0	1144	1325	1439	1544	2289	3187	3674	3685	3530	2775
62.5	815	996	1161	1415	1897	2847	3333	3360	3340	2748
65.0	525	599	657	1006	1720	2335	2782	2887	3017	2713
67.5	432	441	512	688	1165	2071	2454	2517	2620	2264
70.0	46	51	95	370	849	1684	2025	1976	2000	2096
72.5	23	25	35	91	504	1322	1639	1694	1830	1842
75.0	17	18	24	58	303	979	1451	1476	1526	1474
77.5	11	12	17	37	232	755	1108	1100	1138	1028
80.0	7	7	11	18	170	508	726	720	709	626
82.5	4	5	6	9	82	233	394	407	387	306
85.0	2	3	3	5	21	61	130	156	148	102
87.5	1	1	2	2	4	8	14	14	19	6
90.0	0	0	1	2	2	2	2	2	2	2
92.5	0	0	1	1	2	2	2	2	2	1
95.0	0	0	1	1	2	2	1	1	1	1
97.5	0	0	1	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	1	1	1	1	1	1	1	1	1	1
122.5	1	0	1	1	2	1	1	1	1	1
125.0	1	1	1	1	2	2	1	1	1	1
127.5	1	1	1	2	2	1	1	1	1	2
130.0	1	1	1	2	2	2	1	1	1	2

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

CANDELA TABULATION - (Cont.)

132.5	1	1	1	1	2	2	1	1	1	2
135.0	1	1	1	1	2	1	1	1	1	1
137.5	0	0	1	1	1	1	1	1	1	1
140.0	0	0	0	0	1	0	0	0	0	1
142.5	0	0	0	1	1	1	0	0	0	1
145.0	0	0	0	0	1	0	0	0	0	1
147.5	0	0	0	0	1	1	0	0	0	1
150.0	0	0	0	1	1	1	1	1	1	1
152.5	0	0	0	1	1	1	0	0	0	1
155.0	0	0	0	1	1	1	0	1	0	1
157.5	0	0	0	0	1	1	0	0	0	0
160.0	0	0	0	1	1	1	0	0	0	1
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	1	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	1	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	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	809	809	809	809	809	809	809	809	809	809
2.5	809	815	808	812	817	800	789	773	764	775
5.0	750	758	759	753	740	708	700	678	696	679
7.5	832	827	819	796	758	723	700	677	651	663
10.0	1002	1019	967	895	851	802	767	744	677	634
12.5	1175	1204	1124	1017	984	919	853	756	675	590
15.0	1320	1320	1229	1113	1041	996	857	743	607	504
17.5	1386	1376	1267	1128	1065	962	777	629	464	359
20.0	1407	1397	1234	1092	1030	855	655	431	323	249
22.5	1405	1362	1194	1068	994	716	473	283	224	190
25.0	1397	1350	1173	1066	919	585	316	231	205	183
27.5	1344	1294	1181	1101	827	433	257	224	202	187
30.0	1337	1289	1235	1115	733	338	241	226	208	188
32.5	1419	1370	1320	1128	626	299	254	228	206	188
35.0	1632	1572	1460	1129	562	292	262	223	200	186
37.5	1785	1720	1533	1107	495	327	259	203	194	190
40.0	1966	1853	1632	1031	437	352	268	187	174	188
42.5	2145	1965	1694	945	380	316	276	166	153	163
45.0	2309	2040	1759	868	373	304	278	136	132	128
47.5	2306	2025	1758	771	418	287	288	107	101	118
50.0	2326	1995	1764	672	437	251	277	90	82	95
52.5	2094	1843	1703	569	391	222	235	83	60	44
55.0	1944	1781	1668	495	348	206	165	62	37	30
57.5	1834	1729	1622	472	312	178	120	43	33	25
60.0	1751	1679	1544	440	269	142	70	35	29	22
62.5	1655	1558	1486	357	217	105	51	27	23	20
65.0	1565	1444	1340	268	157	62	46	25	20	18
67.5	1336	1238	1131	180	93	55	36	31	17	15
70.0	1306	1219	1006	118	52	48	28	23	14	12
72.5	1236	1128	867	82	30	33	24	14	13	10
75.0	1039	908	607	35	21	24	16	10	11	11
77.5	734	585	379	19	20	19	11	9	11	12

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

CANDELA TABULATION - (Cont.)

80.0	440	351	223	15	22	13	9	8	9	10
82.5	226	172	109	11	14	8	8	5	5	4
85.0	76	61	30	4	5	4	4	3	2	2
87.5	3	3	1	1	2	2	2	2	2	1
90.0	1	1	1	1	2	2	2	2	2	1
92.5	1	1	1	2	2	2	2	2	2	1
95.0	1	1	1	2	2	2	2	2	1	1
97.5	1	1	1	2	2	2	2	2	2	1
100.0	1	1	1	2	2	2	2	2	2	1
102.5	1	1	1	2	2	2	2	2	2	1
105.0	1	1	1	2	2	2	2	2	2	1
107.5	1	1	1	2	2	3	2	2	2	1
110.0	1	1	1	2	3	3	3	2	2	1
112.5	1	1	2	2	3	3	3	2	2	1
115.0	1	1	2	2	3	3	3	2	2	1
117.5	1	2	2	2	3	3	3	2	2	1
120.0	1	2	2	3	3	3	3	3	2	1
122.5	2	2	2	3	3	3	3	3	2	1
125.0	2	2	2	3	3	3	3	3	2	2
127.5	2	2	2	3	3	3	3	3	2	2
130.0	2	2	2	3	3	3	3	3	2	2
132.5	2	2	2	3	3	3	3	3	2	2
135.0	2	2	2	3	3	3	3	3	3	2
137.5	1	1	2	2	3	3	3	3	2	2
140.0	1	1	1	2	2	3	3	2	2	1
142.5	1	1	1	2	2	2	3	2	2	1
145.0	1	1	1	2	2	3	3	2	2	1
147.5	1	1	1	2	2	2	3	2	2	1
150.0	1	1	1	2	2	2	3	2	2	1
152.5	1	1	1	2	2	2	2	2	2	1
155.0	1	1	1	2	2	2	2	2	2	1
157.5	1	1	1	2	2	2	2	2	2	1
160.0	1	1	1	1	2	2	2	2	1	1
162.5	0	1	1	1	2	2	2	2	1	1
165.0	0	1	1	1	1	2	2	2	1	1
167.5	0	0	0	1	1	1	2	1	1	0
170.0	0	0	0	1	1	1	1	1	1	0
172.5	0	0	0	1	1	1	1	1	1	0
175.0	0	0	0	0	1	1	1	1	0	0
177.5	0	0	0	0	1	1	1	1	0	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

	<u>175.0</u>	<u>180.0</u>
0.0	809	809
2.5	781	771
5.0	670	669
7.5	673	650
10.0	611	592
12.5	553	533
15.0	435	421
17.5	283	258
20.0	195	181
22.5	152	139
25.0	147	133

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CANDELA TABULATION - (Cont.)

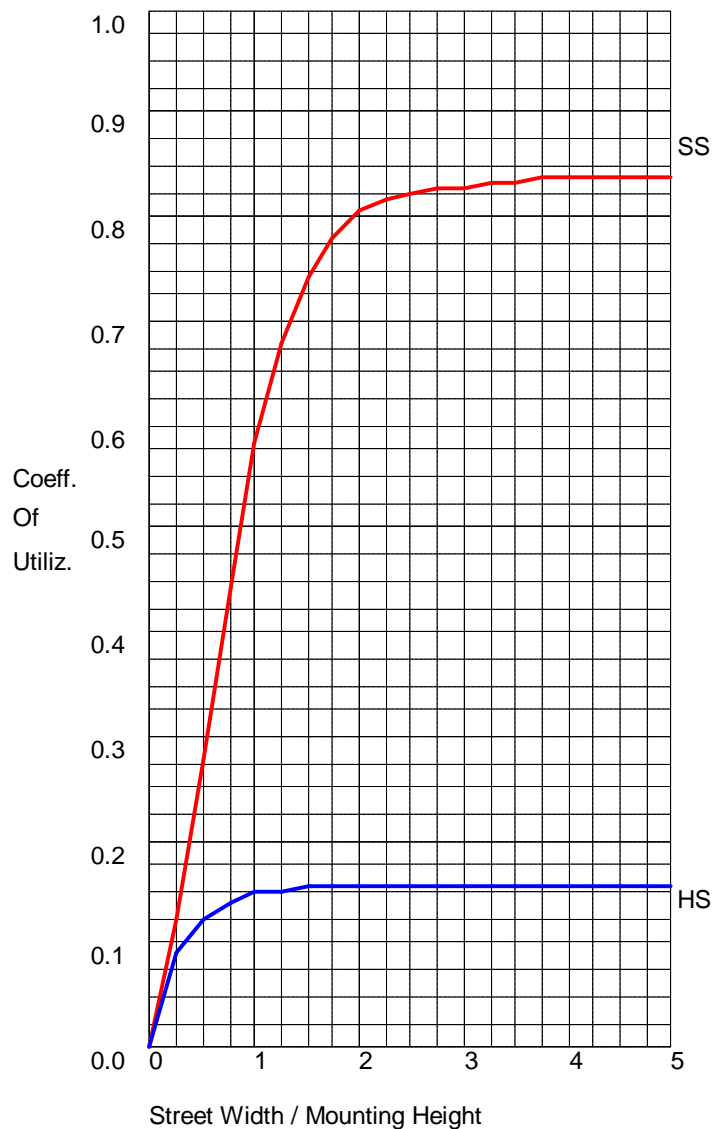
27.5	147	136
30.0	147	134
32.5	142	126
35.0	139	121
37.5	138	118
40.0	134	112
42.5	110	92
45.0	92	78
47.5	87	74
50.0	59	50
52.5	32	33
55.0	26	25
57.5	22	21
60.0	19	17
62.5	18	17
65.0	18	16
67.5	16	13
70.0	13	11
72.5	9	8
75.0	9	8
77.5	9	7
80.0	7	5
82.5	3	2
85.0	1	0
87.5	0	0
90.0	0	0
92.5	0	0
95.0	0	0
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	1	0
125.0	1	1
127.5	1	1
130.0	1	1
132.5	1	1
135.0	1	1
137.5	1	1
140.0	0	0
142.5	1	1
145.0	1	0
147.5	1	0
150.0	1	1
152.5	1	0
155.0	1	0
157.5	0	0
160.0	0	0
162.5	0	0
165.0	0	0

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PHOTOMETRIC FILENAME : XENM3-PT-3-LED-SS-NW.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	0	0

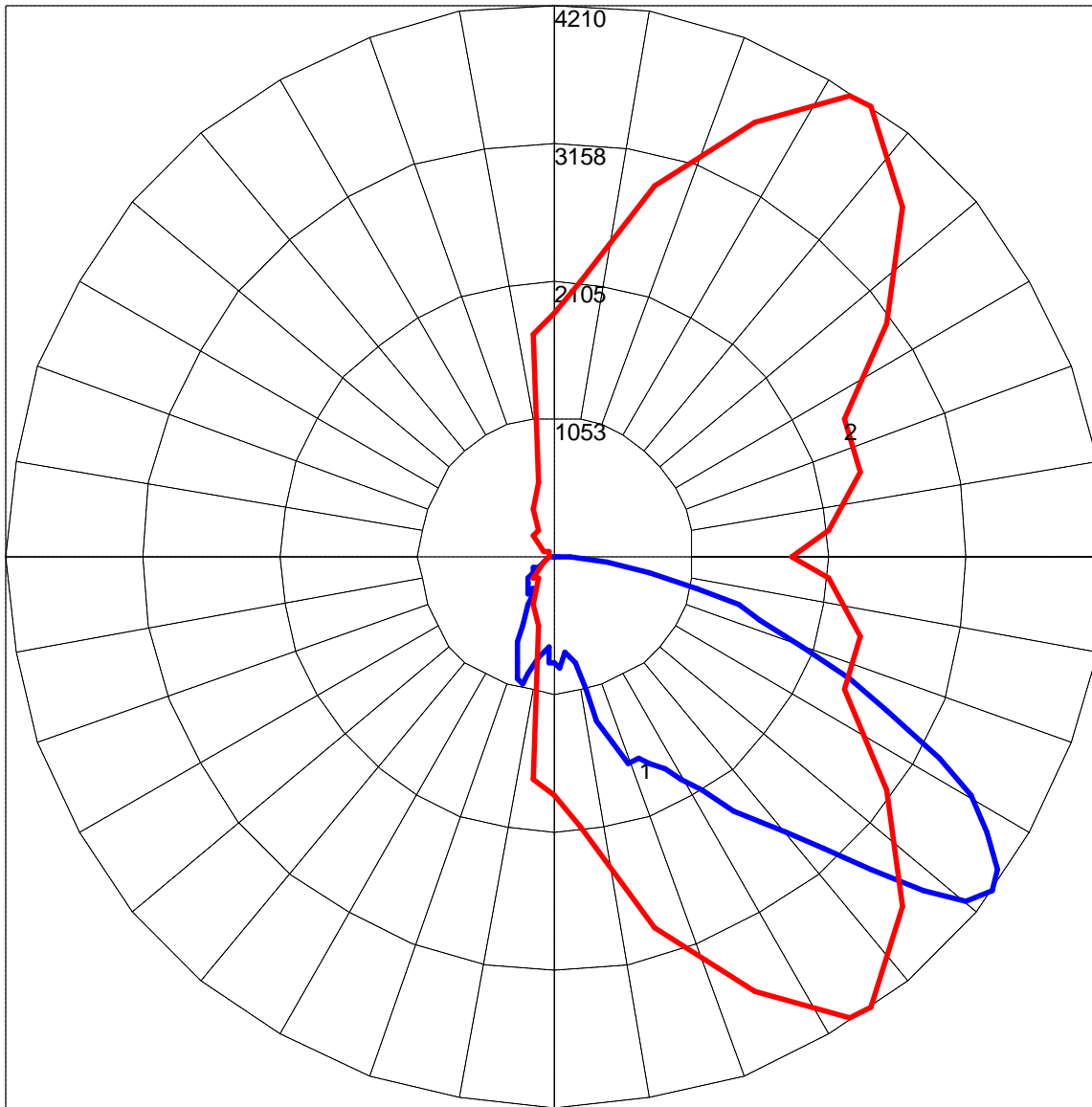
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

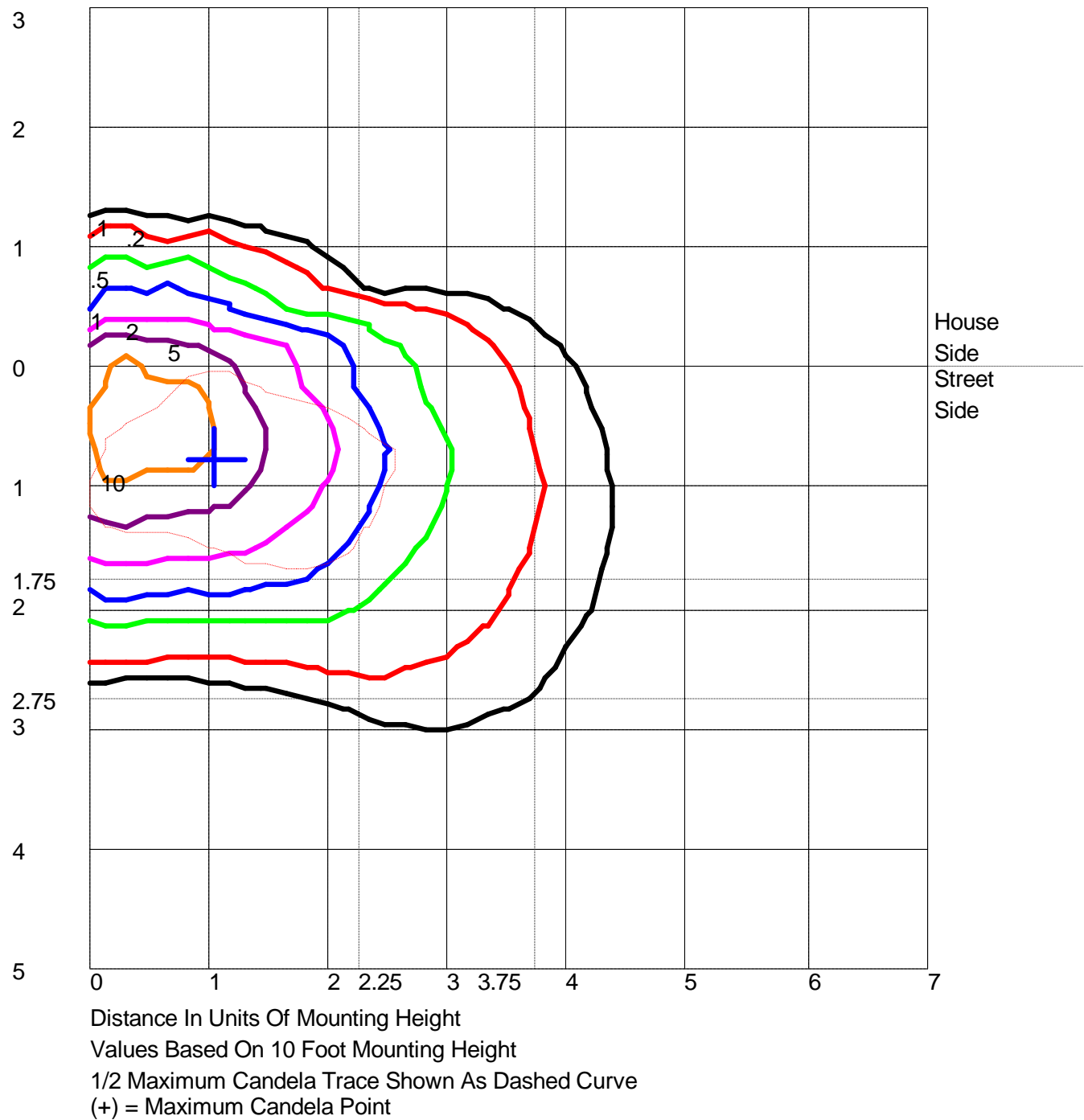
	Lumens	Percent Of Luminaire
Downward Street Side	4995.0	84.2
Downward House Side	926.4	15.6
Downward Total	5921.4	99.9
Upward Street Side	2.9	0.0
Upward House Side	5.8	0.1
Upward Total	8.7	0.1
Total Flux	5930.1	100.0

POLAR GRAPH

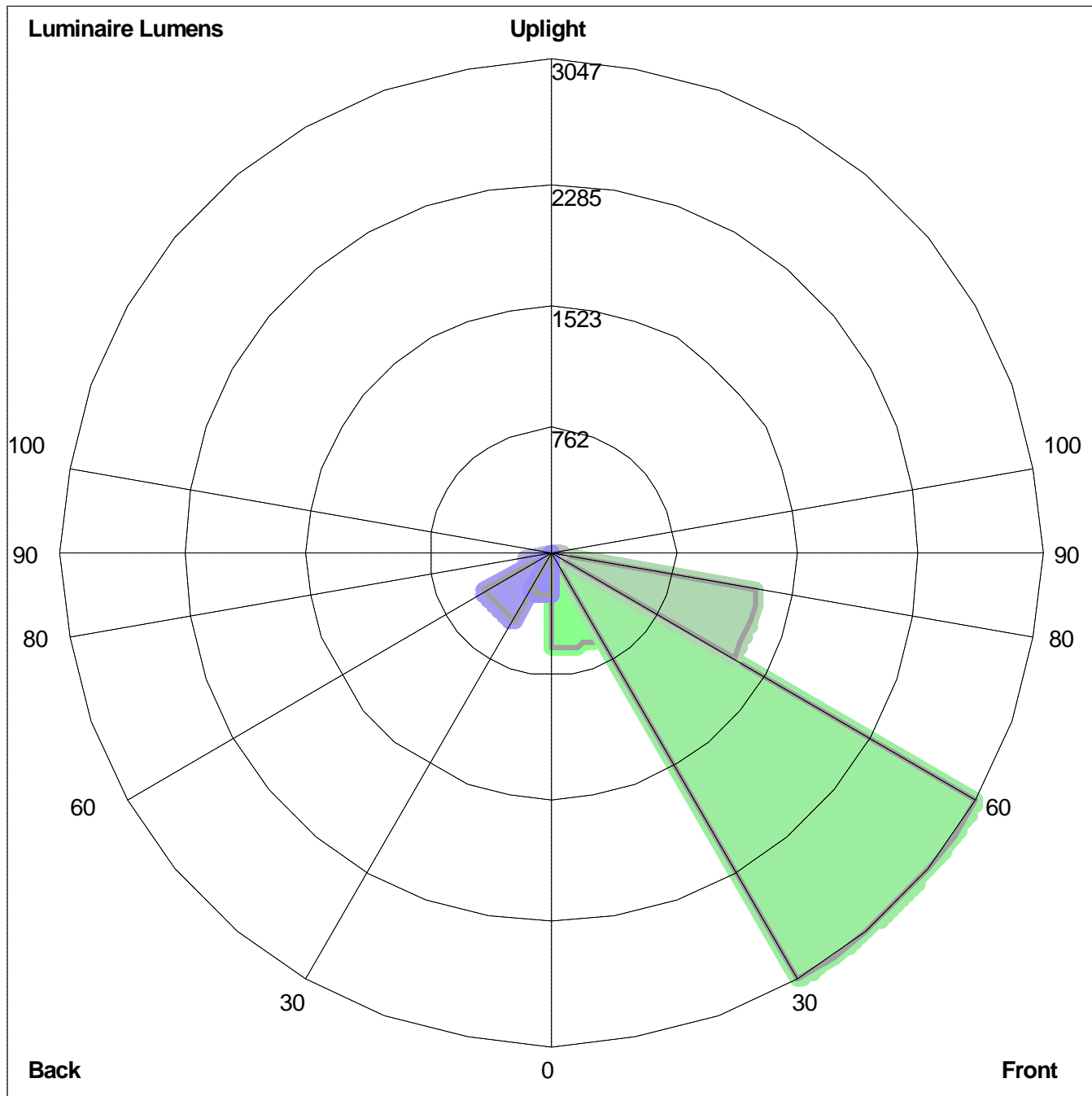


Maximum Candela = 4210 Located At Horizontal Angle = 55, Vertical Angle = 52.5
1 - Vertical Plane Through Horizontal Angles (55 - 235) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (52.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=597.7, Medium=3046.6, High=1292.5, Very High=58.2
Back: Low=274.5, Medium=487.8, High=157.4, Very High=6.6
Uplight: Low=1.4, High=7.2

BUG Rating : B1-U1-G1