



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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-4784
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]11/25/13
[TEST DATE]11/25/13
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMCAT]XENM3-SA-3-LED-SS-NW
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[ABSOLUTE LUMENS]6431
[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	6430
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	70
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	4295
Maximum Candela Angle	55H 52.5V
Maximum Candela (<90 Degrees Vertical)	4295
Maximum Candela Angle (<90 Degrees Vertical)	55H 52.5V
Maximum Candela At 90 Degrees Vertical	1 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	704 (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)	787.9	N.A.	12.3
FM - Front-Medium (30-60)	3160.9	N.A.	49.2
FH - Front-High (60-80)	1257.2	N.A.	19.5
FVH - Front-Very High (80-90)	53.2	N.A.	0.8
BL - Back-Low (0-30)	408.4	N.A.	6.4
BM - Back-Medium (30-60)	577.7	N.A.	9.0
BH - Back-High (60-80)	175.0	N.A.	2.7
BVH - Back-Very High (80-90)	6.2	N.A.	0.1
UL - Uplight-Low (90-100)	0.5	N.A.	0.0
UH - Uplight-High (100-180)	3.6	N.A.	0.1
Total	6430.6	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	1236	1236	1236	1236	1236	1236	1236	1236	1236	1236
2.5	1225	1227	1229	1236	1246	1253	1256	1256	1261	1259
5.0	1183	1183	1193	1212	1245	1279	1320	1325	1347	1361
7.5	1194	1194	1199	1222	1257	1308	1378	1394	1450	1502
10.0	1242	1248	1270	1321	1387	1450	1503	1518	1585	1660
12.5	1314	1321	1353	1432	1553	1629	1662	1673	1714	1804
15.0	1364	1382	1448	1585	1717	1795	1855	1860	1862	1893
17.5	1454	1485	1606	1804	1912	1986	2000	1983	1956	1931
20.0	1564	1597	1751	2022	2155	2150	2045	2033	1987	1939
22.5	1608	1656	1895	2212	2365	2275	2064	2039	1976	1893
25.0	1667	1724	2025	2384	2495	2323	2096	2043	1943	1821
27.5	1679	1736	2105	2517	2561	2398	2142	2068	1884	1769
30.0	1642	1717	2149	2578	2622	2458	2215	2139	1894	1711
32.5	1623	1714	2244	2637	2680	2592	2371	2264	1991	1780
35.0	1689	1810	2389	2704	2756	2712	2521	2437	2192	2044
37.5	1804	1939	2609	2798	2909	2817	2643	2607	2515	2400
40.0	1964	2116	2775	2926	3034	3046	2857	2829	2857	2746
42.5	2160	2288	2906	2951	3073	3360	3161	3124	3150	2944
45.0	2324	2437	2975	2957	3114	3677	3560	3494	3360	3005
47.5	2345	2477	3001	3006	3169	3826	3981	3860	3514	3097
50.0	1904	2095	2707	2927	3235	3866	4227	4146	3611	3038
52.5	1832	2012	2413	2583	3181	3806	4295	4243	3690	2919
55.0	1431	1625	2090	2378	2875	3658	4154	4174	3736	2822
57.5	1197	1343	1627	1949	2606	3436	3936	3981	3681	2685
60.0	1157	1254	1458	1614	2239	3085	3645	3670	3546	2711
62.5	663	799	1090	1445	1926	2683	3225	3287	3335	2657
65.0	516	567	636	964	1663	2279	2721	2744	2982	2611
67.5	335	344	425	668	1119	1936	2349	2440	2550	2188
70.0	34	35	71	300	761	1595	1951	1915	1988	2070
72.5	19	20	32	79	419	1160	1563	1646	1815	1840
75.0	14	15	22	52	267	890	1413	1474	1528	1431
77.5	8	8	14	33	203	709	1078	1091	1089	961
80.0	4	5	8	14	148	465	704	693	661	574
82.5	2	2	3	6	66	210	358	377	362	284
85.0	0	0	1	1	13	46	119	132	137	96
87.5	0	0	0	1	1	1	2	6	11	2
90.0	0	0	0	1	1	1	1	1	1	0
92.5	0	0	0	0	1	1	1	1	0	0
95.0	0	0	0	0	1	1	0	0	0	0
97.5	0	0	0	0	1	1	0	0	0	0
100.0	0	0	0	0	1	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	1	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	1	0	0	0	0	0
115.0	0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	1	1	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	1	0	0	0	0	0

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

CANDELA TABULATION - (Cont.)

132.5	0	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	1	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	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	1236	1236	1236	1236	1236	1236	1236	1236	1236	1236
2.5	1267	1265	1264	1261	1258	1240	1230	1213	1205	1193
5.0	1380	1375	1372	1358	1330	1275	1217	1150	1100	1062
7.5	1539	1536	1530	1498	1415	1302	1203	1113	1044	990
10.0	1716	1713	1705	1625	1482	1360	1272	1172	1078	985
12.5	1870	1870	1858	1706	1540	1442	1344	1206	1067	934
15.0	1969	1957	1927	1673	1548	1475	1337	1137	941	773
17.5	1990	1970	1916	1599	1505	1383	1192	976	740	576
20.0	1979	1954	1870	1530	1420	1224	1034	690	502	382
22.5	1922	1898	1751	1485	1357	1045	714	427	335	282
25.0	1835	1805	1674	1468	1275	860	479	310	273	248
27.5	1773	1736	1610	1457	1161	659	345	284	269	238
30.0	1705	1680	1592	1421	999	487	299	280	264	233
32.5	1767	1726	1646	1372	838	373	296	279	257	219
35.0	1953	1904	1789	1346	721	342	300	275	244	207
37.5	2115	2048	1878	1328	624	367	297	248	230	200
40.0	2280	2190	1958	1263	527	398	310	218	204	198
42.5	2400	2272	2007	1173	440	358	321	197	174	179
45.0	2494	2311	2059	1089	442	353	317	161	152	143
47.5	2408	2282	2026	997	446	345	311	127	118	120
50.0	2429	2231	2010	898	466	315	291	107	92	109
52.5	2142	2021	1893	781	452	286	252	97	74	56
55.0	1975	1905	1826	677	416	286	192	82	42	31
57.5	1876	1830	1742	616	376	258	147	55	35	26
60.0	1826	1785	1658	567	327	187	89	37	29	21
62.5	1715	1650	1583	466	259	146	50	28	23	18
65.0	1649	1552	1430	361	177	78	46	25	20	17
67.5	1421	1301	1218	264	113	58	39	25	16	14
70.0	1429	1267	1112	184	62	51	30	25	13	10
72.5	1330	1161	954	120	34	32	24	13	10	8
75.0	1071	942	683	54	23	22	15	9	8	8
77.5	720	638	414	25	17	18	9	8	9	10

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

CANDELA TABULATION - (Cont.)

80.0	427	386	225	15	21	12	8	9	8	9
82.5	228	193	111	10	14	8	8	5	3	2
85.0	70	60	22	3	4	4	3	2	1	0
87.5	0	0	0	0	1	1	1	1	0	0
90.0	0	0	0	1	1	1	1	1	1	0
92.5	0	0	0	1	1	1	1	1	0	0
95.0	0	0	0	1	1	1	1	1	0	0
97.5	0	0	1	1	1	1	1	1	1	0
100.0	0	0	0	1	1	2	2	1	1	0
102.5	0	0	1	1	2	2	2	1	1	0
105.0	0	0	1	1	2	2	2	1	1	0
107.5	0	0	0	1	2	2	2	2	1	0
110.0	0	0	1	1	2	2	2	2	1	0
112.5	0	0	1	1	2	2	2	2	1	0
115.0	0	0	1	1	2	2	2	2	1	0
117.5	0	0	1	1	2	2	2	2	1	0
120.0	0	0	1	1	2	2	2	2	1	1
122.5	1	1	1	2	2	3	3	2	2	1
125.0	0	1	1	1	2	2	2	2	2	1
127.5	0	1	1	2	2	2	2	2	2	1
130.0	1	1	1	2	2	3	3	2	2	1
132.5	1	1	1	2	2	3	3	2	2	1
135.0	1	1	1	1	2	3	3	2	2	1
137.5	0	0	1	1	2	2	2	2	2	1
140.0	0	1	1	1	2	2	2	2	2	1
142.5	1	1	1	1	2	2	2	2	2	1
145.0	0	0	1	1	2	2	2	2	2	1
147.5	0	1	1	1	2	2	2	2	2	1
150.0	0	1	1	1	2	2	2	2	2	1
152.5	0	1	1	1	2	2	2	2	2	1
155.0	1	1	1	1	2	2	2	2	2	1
157.5	0	1	1	1	2	2	2	2	2	1
160.0	0	0	1	1	1	2	2	2	1	1
162.5	0	0	0	1	1	2	2	2	1	0
165.0	0	0	0	1	1	2	2	1	1	0
167.5	0	0	0	0	1	1	1	1	1	0
170.0	0	0	0	0	1	1	1	1	1	0
172.5	0	0	0	0	1	1	1	1	1	0
175.0	0	0	0	0	0	1	1	1	0	0
177.5	0	0	0	0	0	1	1	1	0	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	1236	1236
2.5	1188	1187
5.0	1039	1029
7.5	957	955
10.0	925	918
12.5	834	819
15.0	663	645
17.5	464	440
20.0	305	284
22.5	225	207
25.0	197	181

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CANDELA TABULATION - (Cont.)

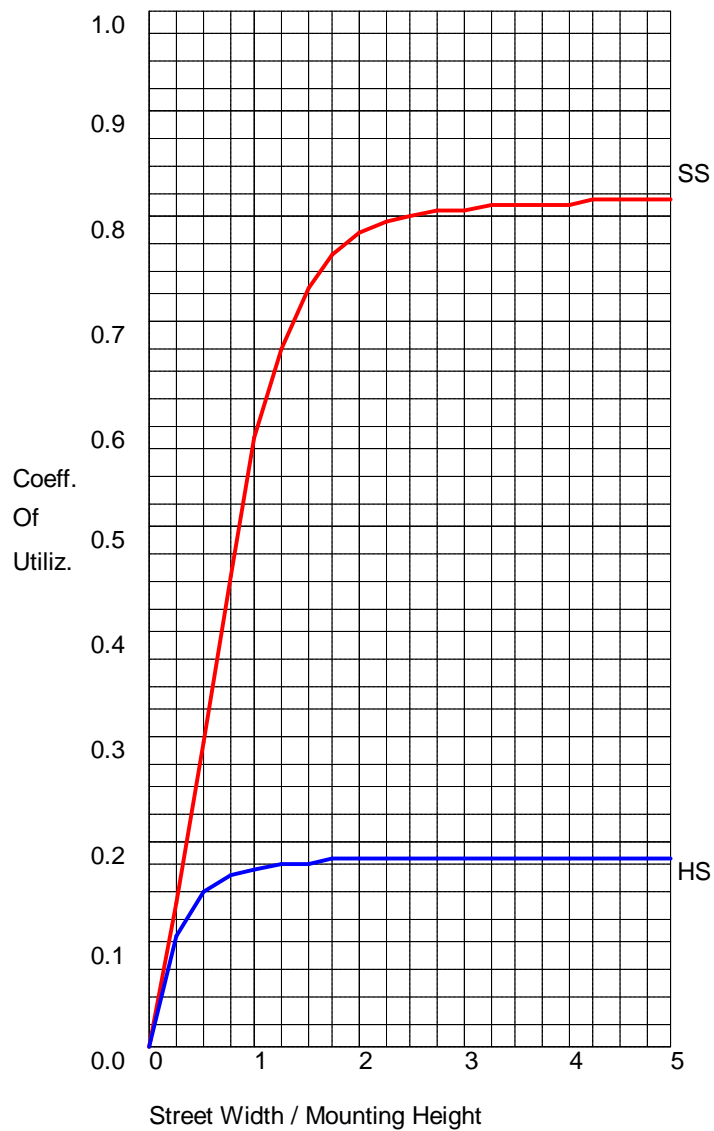
27.5	182	166
30.0	171	156
32.5	156	135
35.0	144	124
37.5	141	119
40.0	139	115
42.5	121	99
45.0	99	82
47.5	90	76
50.0	72	61
52.5	36	35
55.0	26	25
57.5	21	21
60.0	18	16
62.5	17	16
65.0	16	15
67.5	15	14
70.0	13	11
72.5	8	7
75.0	8	7
77.5	9	6
80.0	6	5
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0
92.5	0	0
95.0	0	0
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	0	0
127.5	0	0
130.0	0	0
132.5	0	0
135.0	0	0
137.5	0	0
140.0	0	0
142.5	0	0
145.0	0	0
147.5	0	0
150.0	1	0
152.5	0	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-SA-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

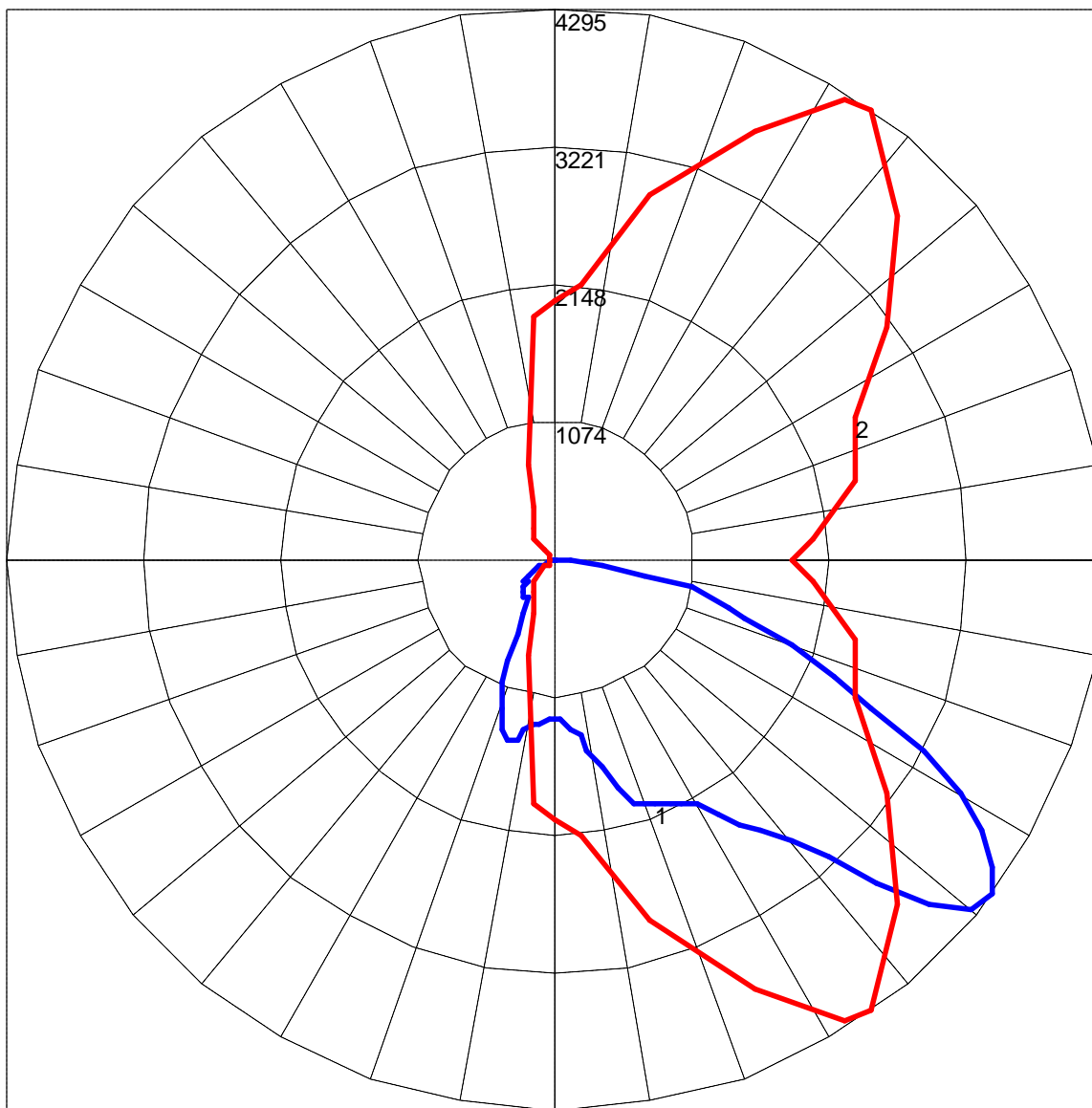
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

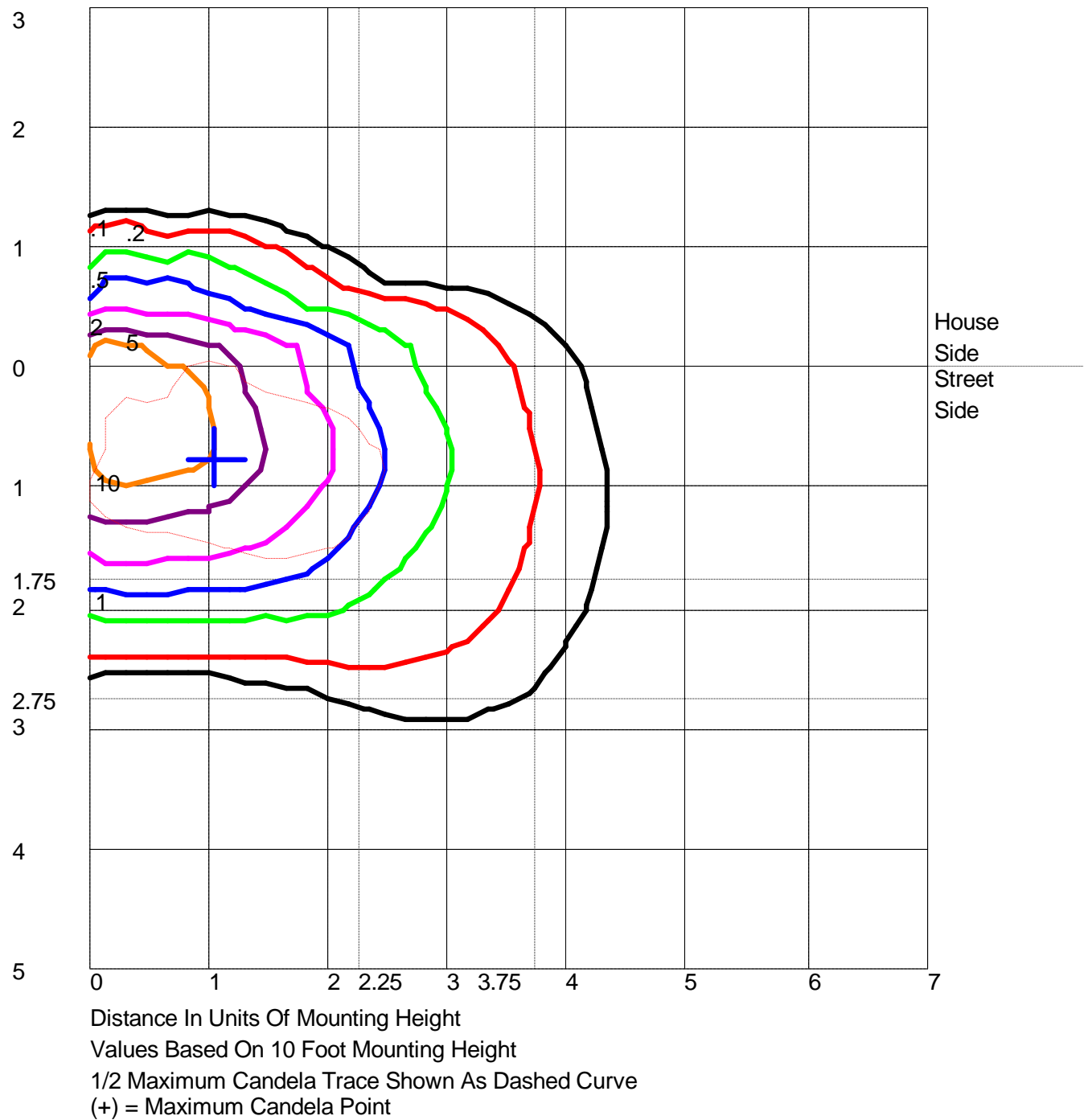
	Lumens	Percent Of Luminaire
Downward Street Side	5259.1	81.8
Downward House Side	1167.3	18.2
Downward Total	6426.4	99.9
Upward Street Side	0.3	0.0
Upward House Side	3.8	0.1
Upward Total	4.1	0.1
Total Flux	6430.5	100.0

POLAR GRAPH

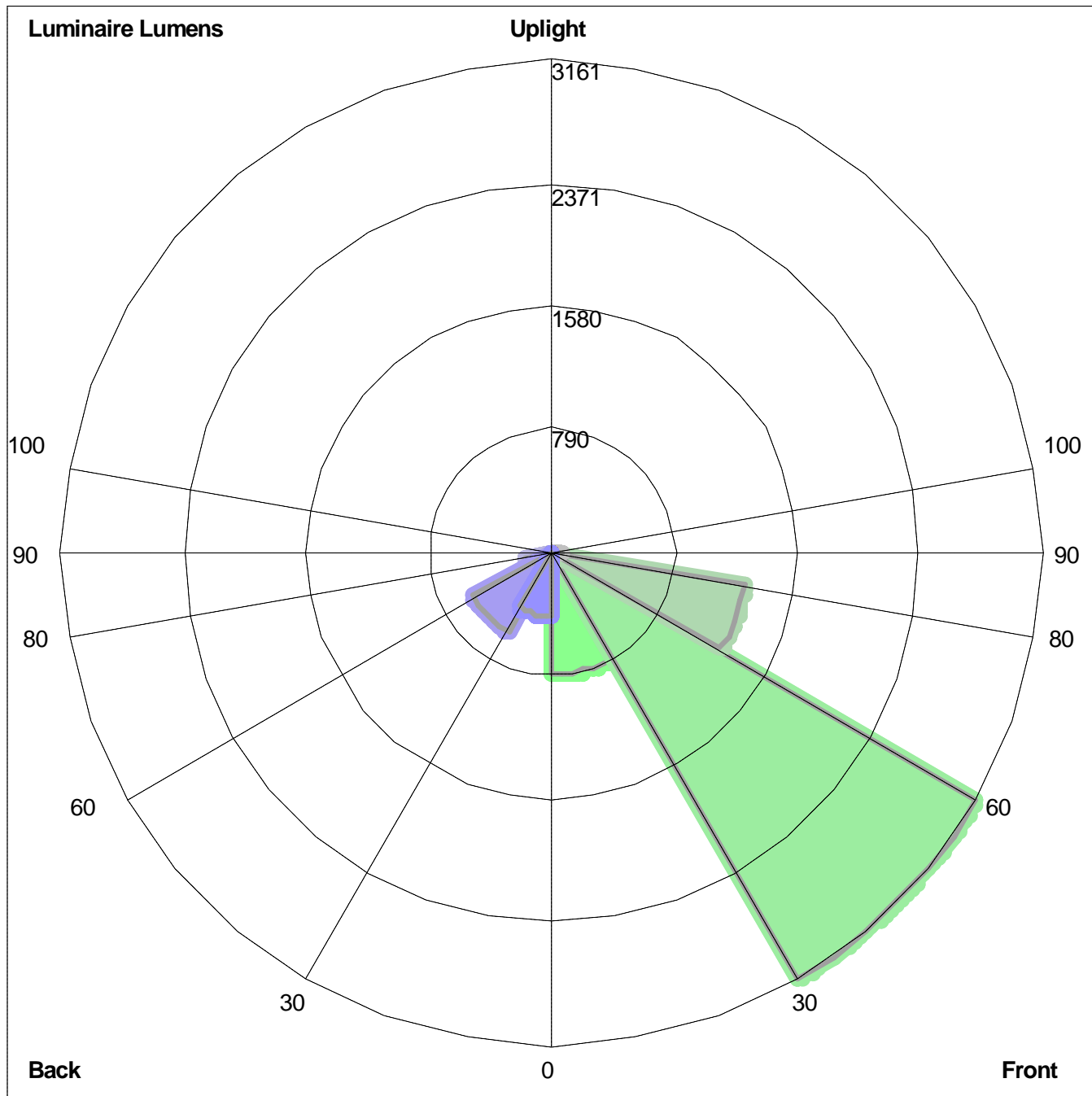


Maximum Candela = 4295 Located At Horizontal Angle = 55, Vertical Angle = 52.5
1 - Vertical Plane Through Horizontal Angles (55 - 235) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (52.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=787.9, Medium=3160.9, High=1257.2, Very High=53.2
Back: Low=408.4, Medium=577.7, High=175.0, Very High=6.2
Uplight: Low=0.5, High=3.6

BUG Rating : B1-U1-G1