



IES ROAD REPORT

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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-4778
[TESTLAB]LSI INDUSTRIES, INC
[ISS DATE]11/23/13
[TESTDATE]11/23/13
[MANUFAC]LSI INDUSTRIES, INC
[LUMCAT]XENM3-PT-3-LED-HO-NW
[_ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[_ABSOLUTE]LUMENS]8251
[_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	8252
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	76
Total Luminaire Watts	108
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	5929
Maximum Candela Angle	57.5H 52.5V
Maximum Candela (<90 Degrees Vertical)	5929
Maximum Candela Angle (<90 Degrees Vertical)	57.5H 52.5V
Maximum Candela At 90 Degrees Vertical	4 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1255 (15.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	872.5	N.A.	10.6
FM - Front-Medium (30-60)	4273.2	N.A.	51.8
FH - Front-High (60-80)	1719.7	N.A.	20.8
FVH - Front-Very High (80-90)	88.0	N.A.	1.1
BL - Back-Low (0-30)	389.3	N.A.	4.7
BM - Back-Medium (30-60)	665.8	N.A.	8.1
BH - Back-High (60-80)	216.1	N.A.	2.6
BVH - Back-Very High (80-90)	10.4	N.A.	0.1
UL - Uplight-Low (90-100)	2.8	N.A.	0.0
UH - Uplight-High (100-180)	13.7	N.A.	0.2
Total	8251.5	N.A.	100.0
BUG Rating	B1-U2-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	1172	1172	1172	1172	1172	1172	1172	1172	1172	1172
2.5	1157	1160	1128	1139	1120	1156	1169	1164	1170	1176
5.0	1031	996	991	971	987	1016	1051	1066	1073	1089
7.5	1011	970	933	921	987	1022	1100	1126	1157	1186
10.0	1127	1089	1050	1107	1158	1172	1243	1225	1316	1366
12.5	1274	1228	1235	1360	1462	1533	1507	1483	1504	1569
15.0	1412	1361	1430	1558	1726	1818	1821	1801	1716	1688
17.5	1570	1551	1697	1884	2011	2083	2122	2075	2035	1916
20.0	1848	1791	2035	2312	2368	2342	2311	2305	2271	2088
22.5	1983	2020	2320	2661	2650	2579	2414	2393	2436	2276
25.0	2184	2218	2613	2941	2887	2716	2530	2492	2477	2229
27.5	2301	2372	2820	3183	2939	2851	2704	2587	2366	2195
30.0	2394	2461	2965	3278	3042	3063	2776	2691	2368	2131
32.5	2412	2525	3151	3278	3205	3246	3098	2998	2582	2308
35.0	2525	2653	3336	3321	3424	3573	3415	3314	3045	2846
37.5	2687	2840	3576	3445	3653	3733	3733	3718	3591	3353
40.0	2938	3110	3794	3606	3884	4112	4041	4069	4060	3704
42.5	3235	3388	3996	3679	3903	4554	4425	4404	4404	3978
45.0	3466	3610	4085	3734	3916	4888	4942	4827	4667	4156
47.5	3579	3743	4125	3789	4010	5042	5521	5335	4871	4151
50.0	3041	3324	3869	3787	4163	5055	5913	5811	4996	4089
52.5	2845	3082	3327	3403	4183	4988	5913	5929	5075	4018
55.0	2429	2673	3000	3070	3900	4941	5775	5821	5209	3925
57.5	1909	2087	2263	2595	3504	4827	5428	5546	5174	3801
60.0	1800	1953	1994	2070	3107	4247	5045	5116	4963	3762
62.5	1136	1291	1547	1908	2555	3888	4535	4572	4447	3543
65.0	833	853	881	1267	2317	3103	3552	3728	3990	3505
67.5	536	532	675	911	1463	2634	3080	3157	3309	2873
70.0	54	58	92	366	1084	2026	2418	2406	2583	2774
72.5	33	34	46	105	446	1633	2157	2216	2440	2502
75.0	25	25	32	76	322	1182	1944	2046	2155	2243
77.5	16	17	24	50	269	996	1634	1746	1767	1595
80.0	10	11	15	24	203	732	1185	1255	1201	1000
82.5	7	7	8	13	123	355	604	646	640	461
85.0	4	4	5	7	25	69	159	195	211	102
87.5	2	2	2	4	5	6	5	5	5	4
90.0	1	1	2	3	4	4	4	3	3	3
92.5	1	1	2	3	4	4	3	3	3	3
95.0	1	1	2	2	3	3	3	3	3	3
97.5	1	1	2	2	3	3	2	2	2	2
100.0	1	1	1	2	2	3	2	2	2	2
102.5	1	1	1	2	3	2	2	2	2	2
105.0	1	1	1	2	2	2	2	2	1	2
107.5	1	1	1	2	2	2	2	2	2	2
110.0	1	1	1	2	2	2	2	2	1	2
112.5	1	1	1	2	3	2	2	2	2	2
115.0	1	1	2	2	3	2	2	2	2	2
117.5	1	1	2	2	3	3	2	2	2	2
120.0	1	1	2	2	3	3	2	2	2	2
122.5	1	1	2	3	3	3	2	2	2	2
125.0	2	2	2	3	3	3	2	2	2	3
127.5	2	2	2	3	3	3	2	2	2	3
130.0	2	2	3	3	3	3	3	3	3	3

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CANDELA TABULATION - (Cont.)

132.5	3	2	3	3	3	3	3	3	3	3
135.0	2	2	2	3	3	3	3	2	2	3
137.5	1	1	2	2	2	2	2	2	2	2
140.0	0	1	1	2	2	2	1	1	1	2
142.5	0	0	1	2	2	2	1	1	1	2
145.0	0	0	1	1	2	2	1	1	1	2
147.5	0	0	1	1	2	2	2	1	1	2
150.0	0	0	1	1	2	2	2	2	2	2
152.5	0	0	1	1	2	2	2	2	2	2
155.0	0	1	1	2	2	2	2	2	2	2
157.5	0	0	1	2	2	2	2	2	2	2
160.0	0	0	1	1	2	2	1	1	1	2
162.5	0	0	1	1	2	1	1	1	1	1
165.0	0	1	1	2	2	1	1	1	1	1
167.5	0	0	1	2	2	1	1	1	1	1
170.0	0	0	1	1	2	1	1	1	1	1
172.5	0	0	1	1	1	1	1	1	1	1
175.0	0	1	1	1	1	1	1	1	1	1
177.5	0	0	1	1	1	1	1	1	0	1
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	1172	1172	1172	1172	1172	1172	1172	1172	1172	1172
2.5	1166	1161	1160	1153	1163	1170	1166	1154	1151	1152
5.0	1112	1093	1109	1086	1070	1047	1046	1022	1003	1045
7.5	1198	1182	1197	1178	1147	1086	1065	1003	938	936
10.0	1469	1429	1416	1318	1256	1160	1130	1079	1004	907
12.5	1608	1674	1638	1457	1443	1335	1214	1101	995	818
15.0	1821	1833	1790	1514	1468	1458	1266	1015	831	692
17.5	1952	1976	1836	1591	1520	1376	1088	842	628	489
20.0	2038	2029	1803	1523	1429	1234	854	596	425	316
22.5	2074	2018	1721	1524	1364	1018	668	368	301	256
25.0	1959	1929	1673	1517	1262	815	419	305	274	256
27.5	1928	1854	1708	1544	1121	595	332	303	290	259
30.0	1807	1771	1730	1552	974	440	323	309	290	258
32.5	1983	1931	1840	1538	825	385	347	323	276	265
35.0	2313	2226	2035	1593	729	388	348	319	281	265
37.5	2567	2432	2133	1523	695	434	340	287	268	268
40.0	2742	2526	2191	1381	548	463	360	254	243	270
42.5	2941	2681	2260	1257	494	444	364	231	211	242
45.0	3104	2720	2343	1159	515	423	367	193	185	190
47.5	3165	2686	2386	1019	559	413	401	160	148	165
50.0	3120	2616	2330	889	596	367	405	139	112	141
52.5	2925	2497	2258	792	556	325	344	117	86	68
55.0	2724	2419	2218	671	500	301	234	89	54	43
57.5	2538	2357	2150	622	450	242	153	60	46	36
60.0	2312	2228	2007	609	382	183	95	48	39	30
62.5	2091	2060	1883	468	309	153	74	39	33	27
65.0	2004	1869	1761	334	214	95	68	37	29	25
67.5	1623	1614	1473	234	133	81	50	44	25	22
70.0	1708	1670	1377	168	66	66	41	31	21	18
72.5	1688	1569	1215	120	47	45	29	20	19	16
75.0	1617	1375	924	53	28	33	22	16	17	16
77.5	1210	984	614	32	31	27	16	14	17	18

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CANDELA TABULATION - (Cont.)

80.0	750	594	358	22	35	20	15	13	14	15
82.5	356	268	165	18	21	13	13	9	8	8
85.0	71	56	34	8	7	7	7	5	4	3
87.5	4	4	3	3	4	4	4	3	3	2
90.0	3	3	3	3	3	3	3	3	3	2
92.5	3	3	3	3	3	3	3	3	3	2
95.0	3	3	3	3	3	3	3	3	3	2
97.5	2	3	3	3	3	3	4	3	3	2
100.0	2	2	3	3	3	4	4	3	3	2
102.5	2	2	3	3	4	4	4	3	3	2
105.0	2	2	3	3	4	4	4	3	3	2
107.5	2	2	3	3	4	4	4	3	3	2
110.0	2	2	3	3	4	4	4	3	3	2
112.5	2	3	3	4	4	4	4	4	3	2
115.0	2	3	3	4	4	4	4	4	3	2
117.5	3	3	3	4	4	5	4	4	3	2
120.0	3	3	3	4	4	5	5	4	4	2
122.5	3	3	4	4	5	5	5	4	4	2
125.0	3	3	4	4	5	5	5	4	4	3
127.5	3	4	4	4	5	5	5	5	4	3
130.0	3	4	4	5	5	5	5	5	4	3
132.5	4	4	4	5	5	5	5	5	4	3
135.0	3	4	4	4	5	5	5	5	4	3
137.5	3	3	3	4	4	5	5	4	4	3
140.0	2	2	3	3	4	4	4	4	4	3
142.5	2	2	2	3	4	4	4	4	3	2
145.0	2	2	2	3	4	4	4	4	3	2
147.5	2	2	3	3	4	4	4	4	3	2
150.0	2	2	3	3	4	4	4	4	3	2
152.5	2	2	3	3	4	4	4	4	3	2
155.0	2	2	3	3	4	4	4	4	3	2
157.5	2	2	2	3	3	4	4	3	3	2
160.0	2	2	2	3	3	4	4	3	3	2
162.5	2	2	2	3	3	3	3	3	2	2
165.0	2	2	2	2	3	3	3	3	2	1
167.5	1	1	2	2	2	3	3	3	2	1
170.0	1	1	2	2	2	3	3	2	2	1
172.5	1	1	1	2	2	2	3	2	2	1
175.0	1	1	1	2	2	2	2	2	1	1
177.5	1	1	1	1	2	2	2	2	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	1172	1172
2.5	1162	1176
5.0	1034	1066
7.5	1010	1067
10.0	954	1007
12.5	841	889
15.0	623	661
17.5	404	391
20.0	256	254
22.5	225	215
25.0	220	213

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CANDELA TABULATION - (Cont.)

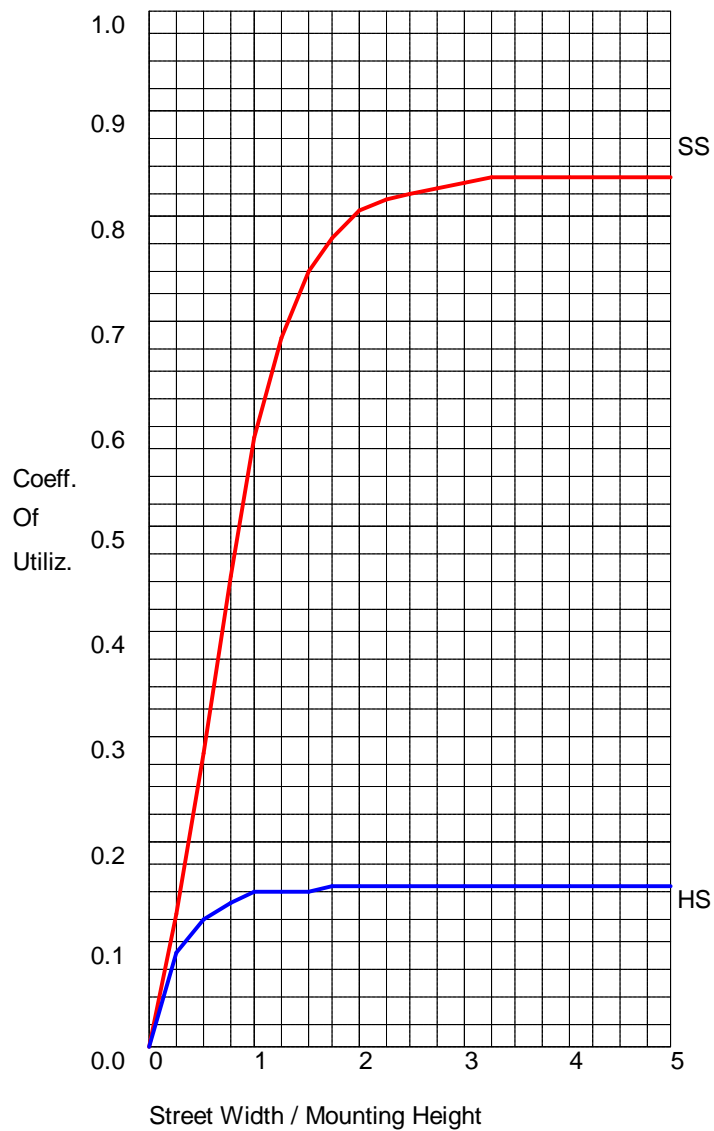
27.5	217	215
30.0	224	213
32.5	214	208
35.0	213	200
37.5	212	197
40.0	207	191
42.5	178	162
45.0	142	129
47.5	131	119
50.0	94	84
52.5	47	48
55.0	38	36
57.5	32	31
60.0	27	25
62.5	26	25
65.0	26	23
67.5	24	21
70.0	19	19
72.5	14	14
75.0	15	13
77.5	16	13
80.0	12	10
82.5	5	4
85.0	2	2
87.5	1	1
90.0	1	0
92.5	1	0
95.0	1	0
97.5	1	0
100.0	1	0
102.5	1	0
105.0	1	0
107.5	1	0
110.0	1	0
112.5	1	1
115.0	1	1
117.5	1	1
120.0	2	1
122.5	2	2
125.0	2	2
127.5	2	2
130.0	2	2
132.5	3	3
135.0	3	3
137.5	2	2
140.0	2	2
142.5	2	2
145.0	2	2
147.5	2	2
150.0	2	2
152.5	2	2
155.0	2	2
157.5	1	1
160.0	1	1
162.5	1	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

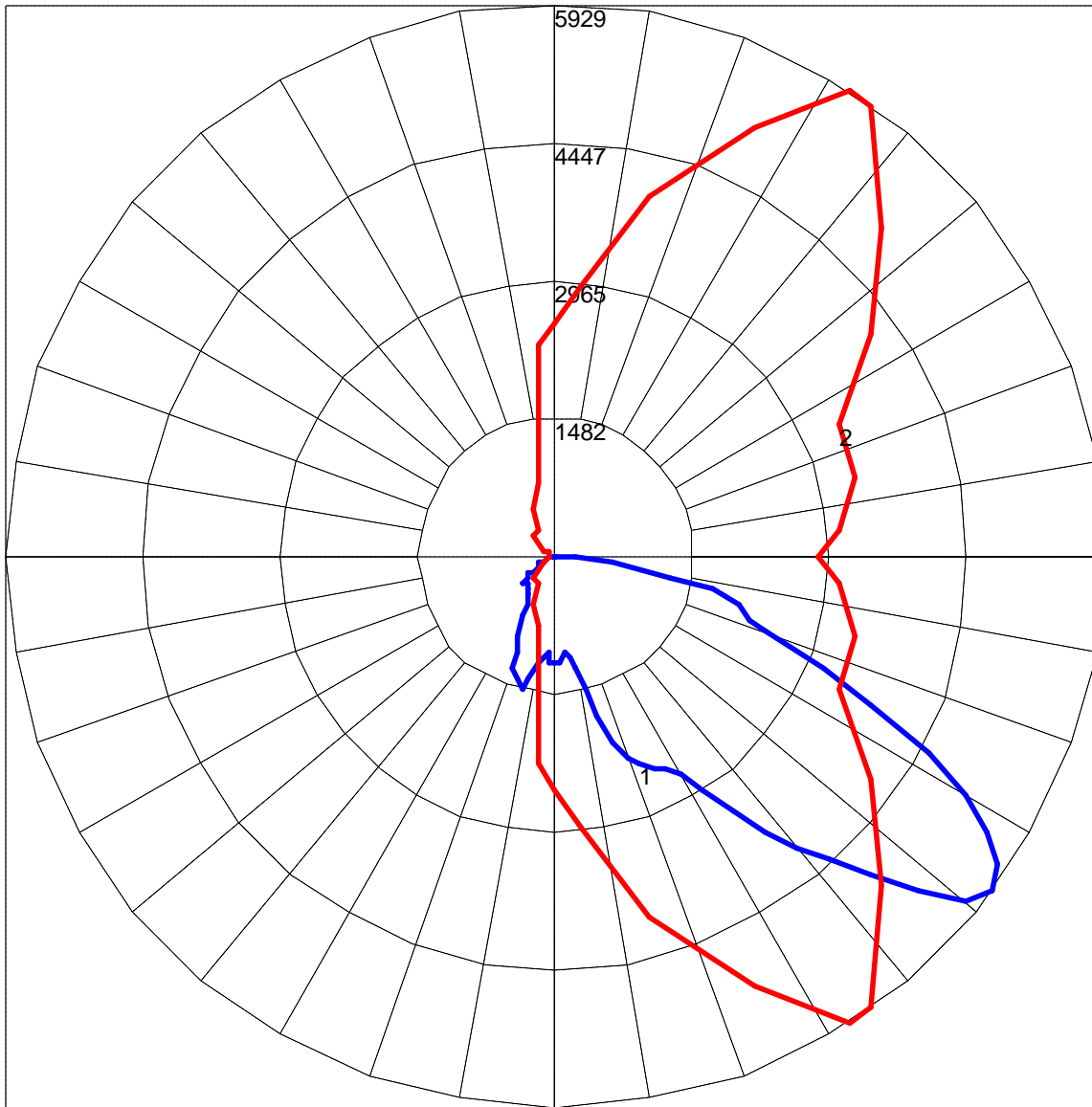
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

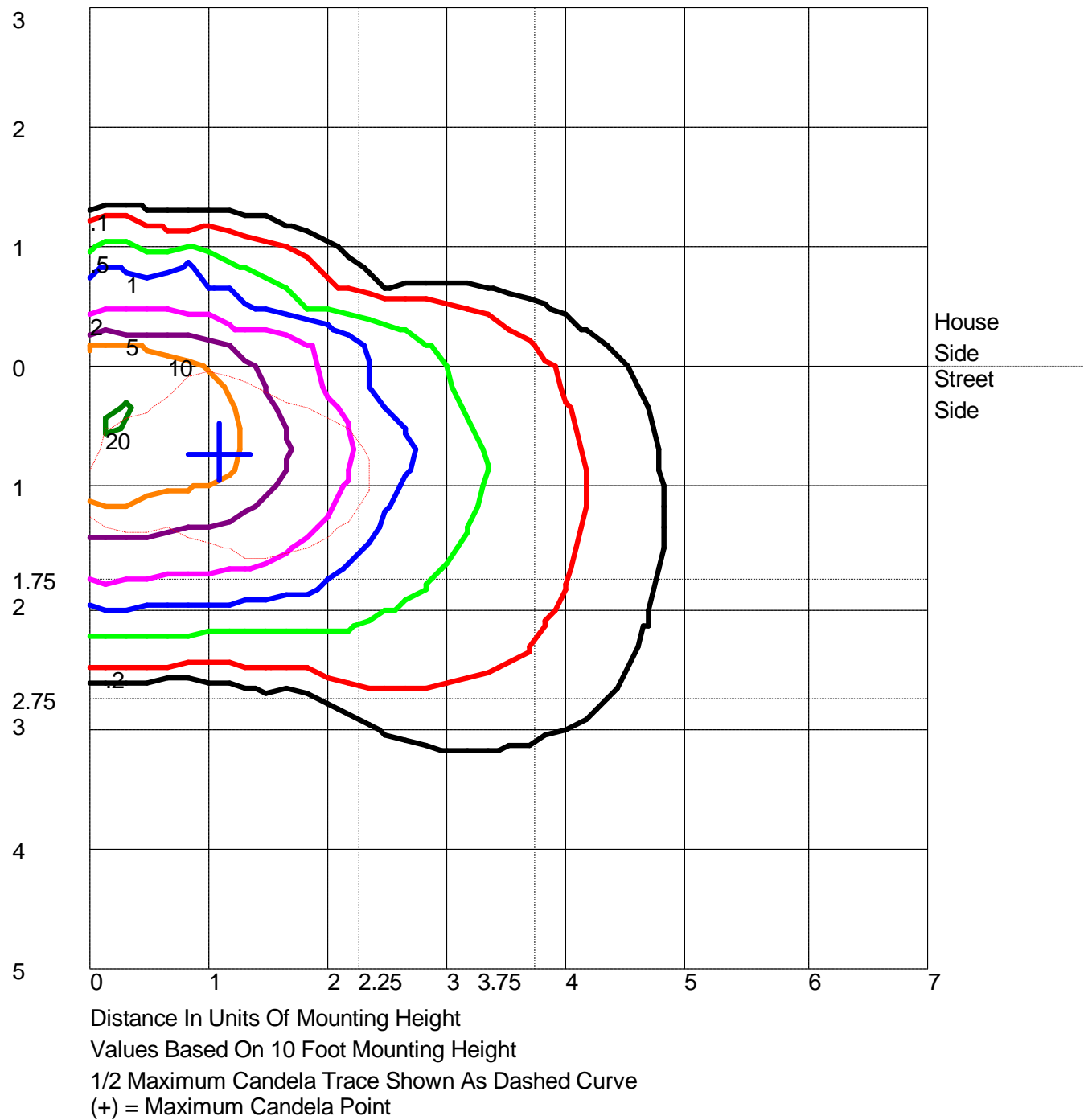
	Lumens	Percent Of Luminaire
Downward Street Side	6953.4	84.3
Downward House Side	1281.6	15.5
Downward Total	8235.0	99.8
Upward Street Side	6.4	0.1
Upward House Side	10.1	0.1
Upward Total	16.5	0.2
Total Flux	8251.5	100.0

POLAR GRAPH

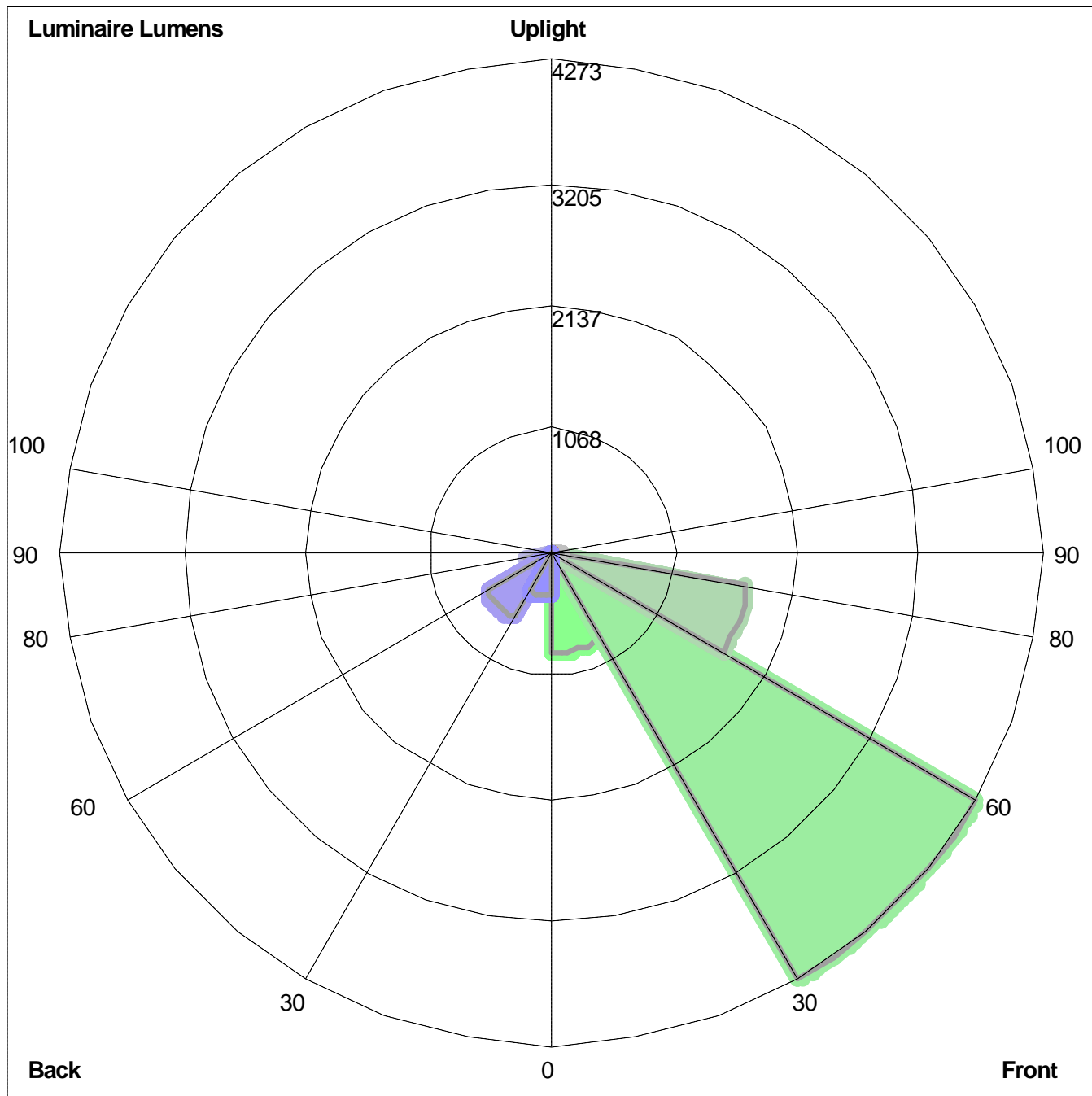


Maximum Candela = 5929 Located At Horizontal Angle = 57.5, Vertical Angle = 52.5
1 - Vertical Plane Through Horizontal Angles (57.5 - 237.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (52.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=872.5, Medium=4273.2, High=1719.7, Very High=88.0
Back: Low=389.3, Medium=665.8, High=216.1, Very High=10.4
Uplight: Low=2.8, High=13.7

BUG Rating : B1-U2-G1