



IES ROAD REPORT

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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-4720
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]11/15/13
[TEST DATE]11/15/13
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMCAT]XENM3-PT-FT-LED-HO-CW
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[ABSOLUTE LUMENS]8271
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor

CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8271
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	77
Total Luminaire Watts	107
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	5316
Maximum Candela Angle	32.5H 60V
Maximum Candela (<90 Degrees Vertical)	5316
Maximum Candela Angle (<90 Degrees Vertical)	32.5H 60V
Maximum Candela At 90 Degrees Vertical	10 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1481 (17.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	685.2	N.A.	8.3
FM - Front-Medium (30-60)	3854.9	N.A.	46.6
FH - Front-High (60-80)	2857.1	N.A.	34.5
FVH - Front-Very High (80-90)	103.4	N.A.	1.3
BL - Back-Low (0-30)	154.5	N.A.	1.9
BM - Back-Medium (30-60)	435.1	N.A.	5.3
BH - Back-High (60-80)	150.1	N.A.	1.8
BVH - Back-Very High (80-90)	9.3	N.A.	0.1
UL - Uplight-Low (90-100)	4.5	N.A.	0.1
UH - Uplight-High (100-180)	17.2	N.A.	0.2
Total	8271.3	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>32.5</u>	<u>35.0</u>	<u>45.0</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	317	317	317	317	317	317	317	317	317	317
2.5	380	385	388	369	361	355	342	326	314	303
5.0	523	531	461	414	403	397	387	360	339	328
7.5	767	737	598	547	514	517	472	425	390	341
10.0	1074	1006	885	802	748	731	603	528	501	462
12.5	1484	1279	1186	1141	1040	1004	938	913	708	573
15.0	1776	1505	1390	1337	1353	1398	1443	1178	965	722
17.5	2036	1707	1734	1626	1701	1776	1728	1520	1284	892
20.0	2160	1856	1896	1885	2060	2053	2007	1904	1681	1181
22.5	2073	1771	1898	2062	2208	2243	2294	2307	2239	1506
25.0	2095	1794	1829	2018	2236	2305	2546	2805	2589	1812
27.5	2138	1861	1924	2085	2201	2244	2835	3079	3042	2210
30.0	2356	1993	2014	2172	2244	2298	2880	3468	3333	2592
32.5	2608	2201	2239	2297	2405	2514	2964	3462	3610	2980
35.0	2824	2379	2489	2506	2720	2790	2975	3365	3719	3248
37.5	3081	2602	2716	2677	3004	3043	3041	3168	3768	3394
40.0	3350	2843	2922	3014	3272	3264	3147	3045	3633	3488
42.5	3781	3221	3286	3451	3559	3479	3274	2978	3389	3459
45.0	4096	3541	3774	3957	3927	3829	3433	2994	3100	3375
47.5	4146	3581	3859	4470	4480	4369	3693	3079	2836	3217
50.0	4327	3757	4125	4675	4866	4852	4109	3213	2700	3047
52.5	4312	3762	4327	4977	5006	4983	4605	3388	2658	2856
55.0	4421	3908	4433	4979	5182	5174	4846	3653	2674	2616
57.5	4228	3827	4655	5068	5122	5168	4891	3996	2757	2453
60.0	3877	3478	4324	5109	5316	5266	5009	4200	2935	2378
62.5	3987	3602	4440	4802	5114	5206	5033	4356	3202	2186
65.0	3861	3563	4530	4927	4922	4933	5028	4469	3163	1897
67.5	2975	2773	3590	4562	5010	5094	4960	4153	3084	1781
70.0	2526	2417	2983	3640	4403	4786	4688	3629	3057	1713
72.5	1797	1748	2217	2978	3813	3992	3914	3292	2848	1717
75.0	1178	1139	1411	2101	2700	2784	2941	2750	2404	1639
77.5	606	648	827	1406	1698	1705	1698	1942	2214	1503
80.0	137	156	250	492	728	744	857	1028	1481	1194
82.5	45	48	94	113	144	152	201	396	604	763
85.0	10	11	15	24	30	33	37	60	125	313
87.5	2	2	3	5	5	5	6	8	9	30
90.0	0	0	2	3	3	4	4	4	4	3
92.5	0	1	2	3	3	4	4	4	4	3
95.0	0	1	2	3	3	3	4	4	4	4
97.5	0	1	2	3	3	3	3	4	4	4
100.0	0	0	1	2	3	3	3	3	4	4
102.5	0	1	2	2	3	3	3	3	4	4
105.0	0	1	2	2	3	3	3	3	4	4
107.5	0	1	2	2	3	3	3	3	4	4
110.0	1	1	2	3	3	3	3	4	4	4
112.5	1	1	2	3	3	3	3	4	4	4
115.0	1	1	2	3	3	3	3	4	4	4
117.5	1	1	2	3	3	3	4	4	4	4
120.0	1	1	2	3	3	4	4	4	4	4
122.5	2	1	2	3	4	4	4	4	5	5
125.0	2	2	3	4	4	4	4	5	5	5
127.5	2	2	3	4	4	4	4	5	5	5
130.0	2	3	3	4	4	4	5	5	5	5

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CANDELA TABULATION - (Cont.)

132.5	3	3	4	4	4	4	5	5	5	5
135.0	2	2	3	4	4	4	4	5	5	5
137.5	1	1	2	3	3	3	3	4	4	4
140.0	0	0	1	2	2	2	2	3	3	3
142.5	0	0	1	2	2	2	2	3	3	3
145.0	0	0	1	2	2	2	2	3	3	3
147.5	0	0	1	2	2	2	2	3	3	3
150.0	0	0	1	2	2	2	2	3	3	3
152.5	0	0	1	2	2	2	3	3	3	4
155.0	0	0	1	2	2	2	2	3	3	3
157.5	0	0	1	2	2	2	3	3	3	3
160.0	0	0	1	2	2	2	2	3	3	3
162.5	0	0	1	2	2	2	2	3	3	3
165.0	0	0	1	2	2	2	2	3	3	3
167.5	0	0	1	2	2	2	2	3	3	3
170.0	0	0	1	2	2	2	2	2	3	2
172.5	0	0	1	2	2	2	2	2	2	2
175.0	0	0	1	2	2	2	2	2	2	2
177.5	0	0	1	2	2	2	2	2	2	2
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	317	317	317	317	317	317	317	317	317	317
2.5	294	292	287	279	281	278	275	282	289	288
5.0	310	294	280	255	245	237	236	230	224	231
7.5	314	297	283	266	251	243	227	210	199	198
10.0	393	369	336	309	279	243	234	227	220	211
12.5	458	419	382	345	308	289	274	255	230	211
15.0	592	525	477	405	362	339	291	250	226	221
17.5	688	613	550	454	470	366	292	260	232	215
20.0	833	723	639	547	524	393	321	261	232	211
22.5	919	773	704	636	534	424	362	273	218	197
25.0	1002	828	754	709	543	464	400	284	210	199
27.5	1122	903	795	774	589	502	440	264	204	200
30.0	1245	968	843	803	648	547	395	259	207	207
32.5	1349	990	860	796	754	590	382	266	215	218
35.0	1453	987	833	743	754	588	397	286	226	225
37.5	1672	1041	835	670	696	585	407	313	231	223
40.0	1859	1113	871	622	592	581	391	321	223	203
42.5	1963	1201	901	612	531	545	368	314	193	151
45.0	2000	1248	938	589	468	503	322	283	160	120
47.5	2043	1264	962	572	411	446	273	230	159	110
50.0	2094	1274	976	538	353	421	221	183	166	112
52.5	2102	1250	968	526	311	373	161	162	191	117
55.0	2055	1189	937	504	290	248	123	140	192	130
57.5	2022	1103	885	470	277	160	113	125	179	153
60.0	2047	1128	837	421	246	129	107	117	169	175
62.5	1782	1105	778	383	195	123	98	109	168	189
65.0	1621	1049	743	349	141	121	92	98	167	184
67.5	1375	910	627	319	124	102	72	80	88	35
70.0	1217	822	523	242	126	88	61	48	36	28
72.5	1032	666	436	157	115	72	45	41	34	22
75.0	929	605	330	97	94	54	41	36	39	18
77.5	733	461	225	94	69	38	27	23	30	16

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CANDELA TABULATION - (Cont.)

80.0	548	314	139	84	43	22	21	10	17	15
82.5	335	171	76	46	21	11	10	6	10	14
85.0	142	59	28	17	7	6	5	5	8	10
87.5	22	6	4	4	4	4	4	5	7	9
90.0	3	3	3	3	4	4	4	4	6	9
92.5	3	3	3	4	4	5	5	4	7	9
95.0	3	4	3	4	4	5	5	4	7	8
97.5	4	4	4	4	5	5	5	4	5	6
100.0	4	4	4	4	4	5	5	3	3	4
102.5	4	4	4	4	5	5	5	4	3	3
105.0	4	4	4	4	5	5	5	4	3	2
107.5	4	4	4	4	5	5	5	4	3	2
110.0	4	4	4	5	5	5	5	4	3	2
112.5	4	4	4	5	5	5	5	4	3	2
115.0	4	4	4	5	5	5	5	4	3	3
117.5	4	4	4	5	5	5	5	4	3	3
120.0	5	4	5	5	5	5	5	4	4	3
122.5	5	5	5	5	5	6	5	4	4	3
125.0	5	5	5	5	5	6	5	5	4	3
127.5	5	5	5	5	5	6	6	5	4	3
130.0	5	5	5	5	5	6	5	4	3	3
132.5	5	5	5	5	5	6	5	4	3	3
135.0	5	5	5	5	5	5	5	4	3	2
137.5	4	4	4	4	5	5	4	4	3	2
140.0	4	4	4	4	4	4	4	3	2	2
142.5	3	3	4	4	4	4	4	3	2	1
145.0	3	3	3	4	4	4	3	3	2	1
147.5	3	4	4	4	4	4	3	3	2	1
150.0	4	4	4	4	4	4	3	2	2	1
152.5	4	4	4	4	4	4	3	2	2	1
155.0	3	4	3	4	3	3	3	2	2	1
157.5	3	4	4	4	3	3	3	2	1	1
160.0	3	3	3	3	3	3	2	2	1	1
162.5	3	3	3	3	3	3	2	1	1	0
165.0	3	3	3	3	3	3	2	1	1	0
167.5	3	3	3	3	3	2	2	1	1	0
170.0	3	2	3	3	2	2	2	1	0	0
172.5	2	2	3	2	2	2	2	1	0	0
175.0	2	2	2	2	2	2	1	1	0	0
177.5	2	2	2	2	2	2	1	1	0	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	317	317
2.5	290	286
5.0	242	241
7.5	216	225
10.0	224	239
12.5	217	228
15.0	221	233
17.5	215	218
20.0	203	206
22.5	192	187
25.0	195	190

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

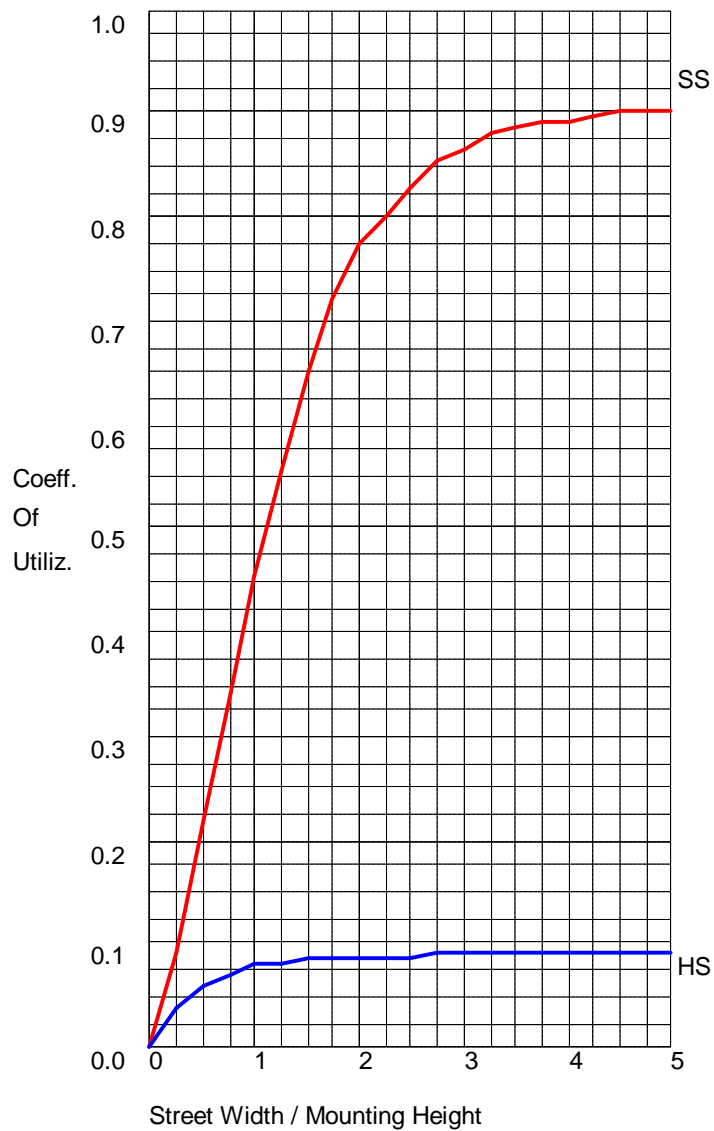
27.5	198	200
30.0	206	205
32.5	219	216
35.0	221	218
37.5	209	204
40.0	161	161
42.5	110	107
45.0	94	85
47.5	88	80
50.0	81	77
52.5	75	69
55.0	66	58
57.5	54	50
60.0	46	42
62.5	40	36
65.0	36	32
67.5	31	26
70.0	22	20
72.5	19	17
75.0	16	15
77.5	15	14
80.0	14	14
82.5	12	13
85.0	11	11
87.5	10	10
90.0	10	10
92.5	10	10
95.0	9	9
97.5	6	6
100.0	4	4
102.5	3	3
105.0	2	2
107.5	2	1
110.0	2	2
112.5	2	2
115.0	2	2
117.5	2	2
120.0	2	2
122.5	3	3
125.0	3	3
127.5	2	2
130.0	2	2
132.5	2	2
135.0	2	2
137.5	1	1
140.0	1	0
142.5	0	0
145.0	0	0
147.5	0	0
150.0	0	0
152.5	0	0
155.0	0	0
157.5	0	0
160.0	0	0
162.5	0	0
165.0	0	0

IES ROAD REPORT
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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

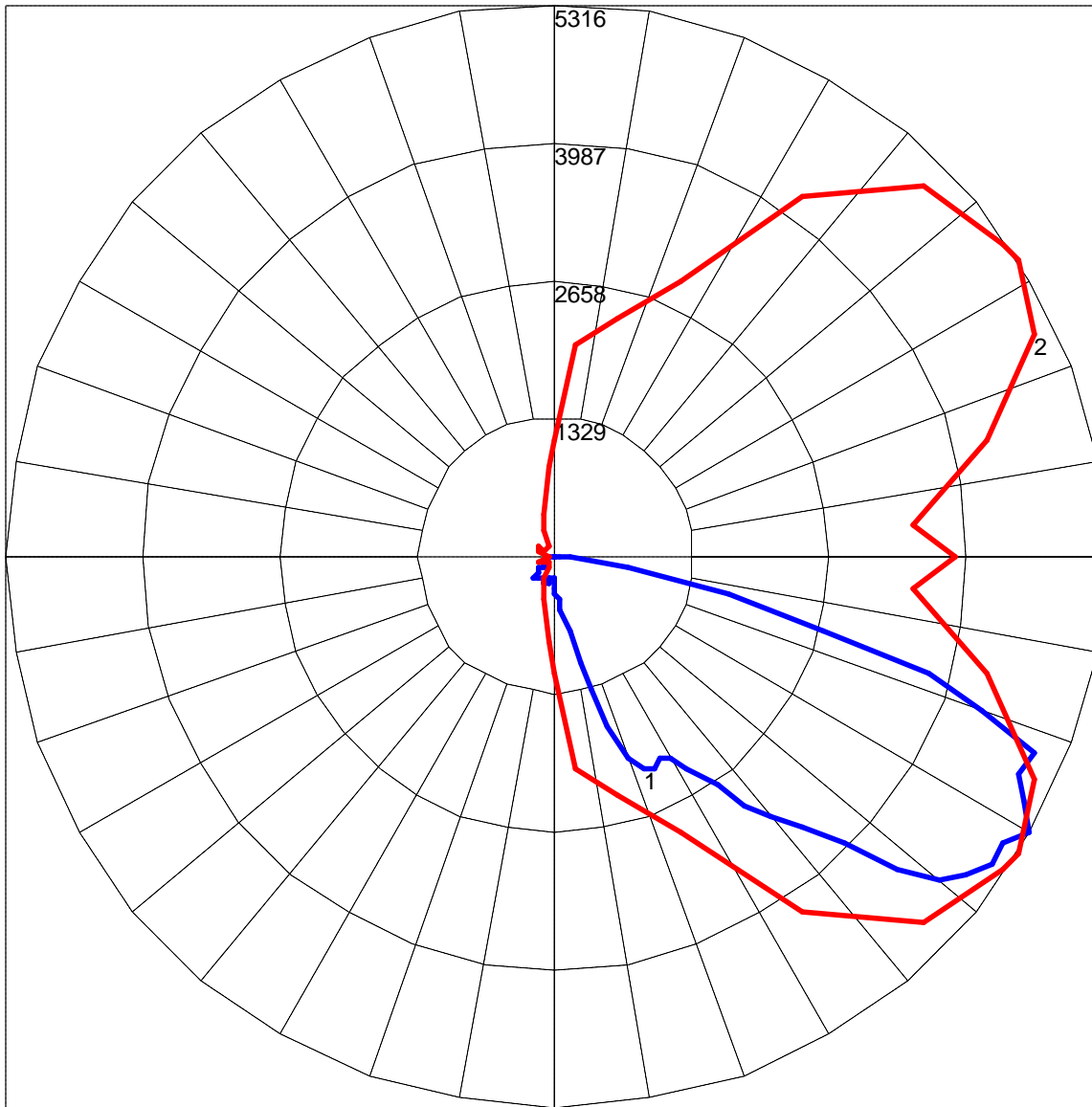
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

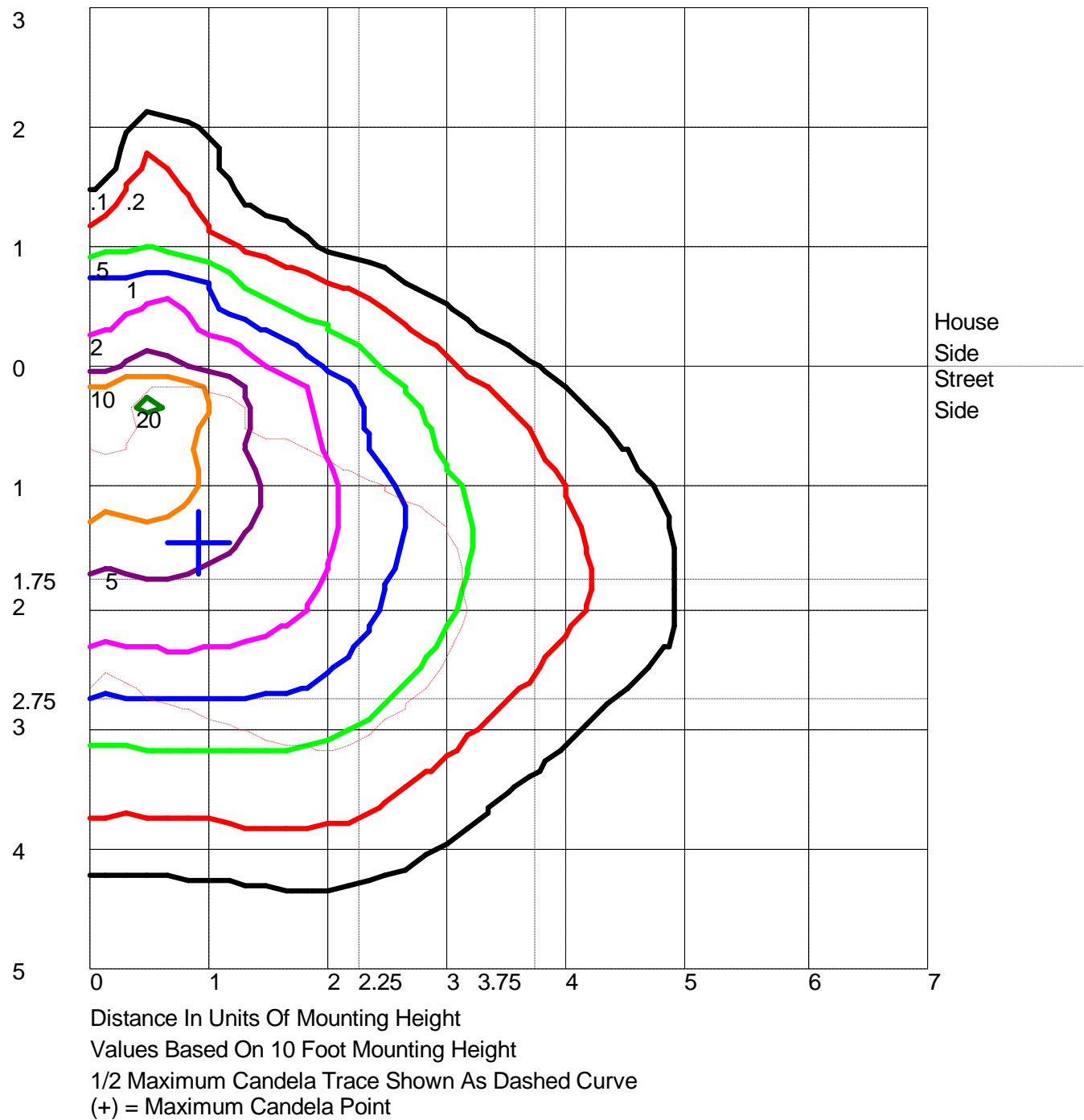
	Lumens	Percent Of Luminaire
Downward Street Side	7500.7	90.7
Downward House Side	748.9	9.1
Downward Total	8249.6	99.7
Upward Street Side	9.5	0.1
Upward House Side	12.1	0.1
Upward Total	21.6	0.3
Total Flux	8271.2	100.0

POLAR GRAPH

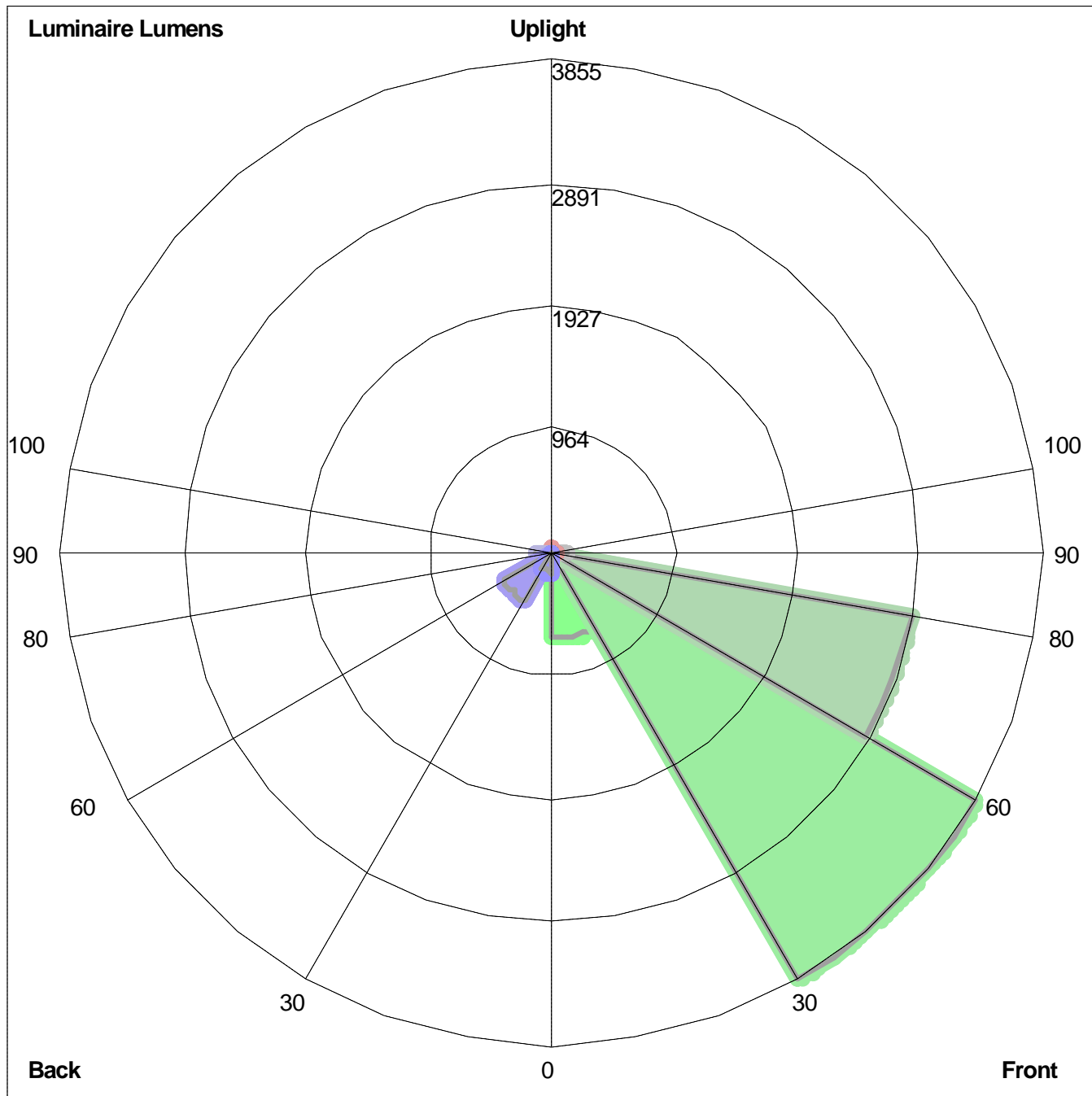


Maximum Candela = 5316 Located At Horizontal Angle = 32.5, Vertical Angle = 60
1 - Vertical Plane Through Horizontal Angles (32.5 - 212.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=685.2, Medium=3854.9, High=2857.1, Very High=103.4
Back: Low=154.5, Medium=435.1, High=150.1, Very High=9.3
Uplight: Low=4.5, High=17.2

BUG Rating : B1-U2-G2