



IES ROAD REPORT
PHOTOMETRIC FILENAME : XCN4-PT-FT-LED-10L-30.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-13248
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/07/22
[TEST DATE] 02/09/22
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] XCN4-PT-FT-LED-10L-30
[OTHER] TEST PROCEDURE: IESNA LM-79-19
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED
[OTHER] SCALED FROM ORIGINAL TEST DATA
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor
[SEARCH_COLORTEMP] 3000

CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9929
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	75
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	6895
Maximum Candela Angle	40H 70V
Maximum Candela (<90 Degrees Vertical)	6895
Maximum Candela Angle (<90 Degrees Vertical)	40H 70V
Maximum Candela At 90 Degrees Vertical	45 (0.5% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1589 (16.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)



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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	471.1	N.A.	4.7
FM - Front-Medium (30-60)	3167.8	N.A.	31.9
FH - Front-High (60-80)	3593.8	N.A.	36.2
FVH - Front-Very High (80-90)	164.3	N.A.	1.7
BL - Back-Low (0-30)	440.4	N.A.	4.4
BM - Back-Medium (30-60)	1401.0	N.A.	14.1
BH - Back-High (60-80)	619.3	N.A.	6.2
BVH - Back-Very High (80-90)	50.8	N.A.	0.5
UL - Uplight-Low (90-100)	5.6	N.A.	0.1
UH - Uplight-High (100-180)	14.6	N.A.	0.1
Total	9928.7	N.A.	100.0
BUG Rating	B2-U2-G2		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>5</u>	<u>15</u>	<u>25</u>	<u>35</u>	<u>40</u>	<u>45</u>	<u>55</u>	<u>65</u>	<u>75</u>
0.0	802	802	802	802	802	802	802	802	802	802
2.5	794	795	798	795	792	786	782	787	785	783
5.0	734	724	725	728	752	760	784	791	792	782
7.5	681	663	669	675	690	695	700	729	804	791
10.0	686	674	687	692	698	693	705	722	764	861
12.5	707	705	710	707	719	733	756	749	784	875
15.0	775	766	780	768	759	773	783	832	835	938
17.5	891	860	870	844	861	853	860	900	948	1006
20.0	1094	1077	1012	952	977	981	984	995	1045	1099
22.5	1262	1245	1214	1176	1108	1111	1119	1122	1151	1188
25.0	1492	1502	1423	1365	1313	1315	1257	1261	1269	1299
27.5	1658	1656	1652	1606	1495	1479	1464	1388	1378	1402
30.0	1870	1880	1837	1771	1731	1685	1635	1536	1475	1473
32.5	1989	2001	2020	2001	1902	1870	1832	1673	1574	1531
35.0	2105	2119	2146	2143	2087	2045	2005	1851	1656	1555
37.5	2228	2251	2274	2275	2235	2212	2150	1976	1750	1605
40.0	2385	2395	2417	2419	2398	2357	2307	2135	1856	1666
42.5	2552	2562	2583	2598	2574	2533	2469	2329	1979	1752
45.0	2746	2768	2781	2809	2782	2746	2674	2535	2151	1883
47.5	2966	2994	3026	3065	3048	2995	2920	2779	2366	2049
50.0	3199	3231	3279	3370	3347	3299	3210	3098	2665	2256
52.5	3425	3469	3527	3687	3690	3647	3564	3494	2973	2518
55.0	3595	3649	3757	3996	4053	4044	4002	3984	3390	2826
57.5	3753	3832	3960	4269	4470	4535	4545	4547	3828	3156
60.0	3979	4081	4249	4596	4935	5107	5156	5146	4244	3389
62.5	4211	4338	4545	5001	5507	5762	5803	5675	4554	3514
65.0	4375	4471	4781	5410	6098	6425	6406	5994	4617	3353
67.5	4232	4304	4751	5667	6543	6852	6800	5921	4272	2832
70.0	3724	3797	4330	5547	6706	6895	6743	5382	3442	2003
72.5	2673	2737	3364	4678	6380	6521	6225	4278	2238	1106
75.0	1295	1372	1992	3202	4924	5225	4837	2791	1260	688
77.5	606	652	1004	1692	2902	3267	3041	1604	805	453
80.0	323	355	650	1023	1346	1589	1577	983	490	275
82.5	218	241	441	656	774	856	870	498	298	152
85.0	159	178	322	441	525	456	344	206	145	88
87.5	103	114	210	204	255	168	64	70	48	38
90.0	25	36	45	25	16	12	10	9	9	8
92.5	2	2	2	4	5	6	7	8	9	8
95.0	2	1	2	4	5	6	7	9	9	9
97.5	2	1	2	4	5	6	7	7	9	9
100.0	1	1	2	3	4	5	5	5	7	7
102.5	1	1	2	3	3	4	4	5	5	5
105.0	1	1	2	3	3	3	3	4	4	5
107.5	1	1	2	2	3	3	3	3	3	4
110.0	1	1	2	2	3	3	3	3	3	3
112.5	1	1	2	2	3	3	3	3	3	3
115.0	1	1	2	2	3	3	3	3	3	3
117.5	1	1	2	2	3	3	3	3	3	3
120.0	1	1	2	3	3	3	3	3	3	3
122.5	2	2	2	3	3	3	3	3	3	3
125.0	2	2	2	3	3	3	3	3	3	3
127.5	2	2	2	3	3	3	3	3	3	4
130.0	2	2	2	3	3	3	3	3	4	4

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CANDELA TABULATION - (Cont.)

132.5	3	3	3	3	3	3	3	4	4	4
135.0	3	3	3	3	3	4	4	4	4	4
137.5	4	3	3	3	4	4	4	4	4	4
140.0	4	4	4	4	4	4	4	4	4	4
142.5	4	3	3	3	4	3	4	3	4	4
145.0	2	2	2	3	3	3	3	3	3	3
147.5	1	1	1	2	2	2	2	2	2	2
150.0	1	1	1	2	2	2	2	2	2	2
152.5	1	1	1	2	2	2	2	2	2	2
155.0	1	1	1	2	2	2	2	2	2	2
157.5	1	1	1	2	2	2	2	2	2	2
160.0	1	1	1	2	2	2	2	2	2	2
162.5	1	1	1	2	2	2	2	2	2	2
165.0	1	1	1	2	2	2	2	2	2	2
167.5	1	1	1	2	2	2	2	2	2	2
170.0	1	1	1	2	2	2	2	2	2	2
172.5	1	1	1	2	2	2	2	2	2	2
175.0	1	1	1	2	2	2	2	2	2	2
177.5	1	1	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</u>	<u>90</u>	<u>95</u>	<u>105</u>	<u>115</u>	<u>125</u>	<u>135</u>	<u>145</u>	<u>155</u>	<u>165</u>
0.0	802	802	802	802	802	802	802	802	802	802
2.5	788	790	784	788	798	798	799	809	816	826
5.0	773	766	775	788	807	822	841	814	789	791
7.5	781	779	785	797	840	786	756	751	749	748
10.0	810	792	810	870	822	784	767	784	783	786
12.5	881	856	879	918	845	815	824	823	822	844
15.0	939	925	942	970	878	887	865	865	879	896
17.5	1030	1004	1013	1031	953	938	916	937	948	959
20.0	1145	1115	1121	1091	1024	994	989	991	991	1024
22.5	1242	1225	1239	1156	1083	1046	1046	1042	1083	1116
25.0	1353	1317	1340	1223	1131	1106	1084	1122	1145	1194
27.5	1453	1396	1410	1260	1178	1139	1141	1174	1238	1281
30.0	1502	1452	1468	1305	1195	1180	1196	1250	1287	1345
32.5	1514	1450	1470	1291	1213	1195	1247	1277	1359	1418
35.0	1521	1445	1460	1274	1201	1223	1270	1319	1382	1440
37.5	1537	1446	1452	1245	1175	1221	1264	1308	1388	1457
40.0	1568	1458	1451	1225	1142	1203	1244	1291	1388	1484
42.5	1618	1484	1458	1189	1102	1179	1216	1270	1402	1509
45.0	1694	1531	1481	1167	1066	1144	1172	1240	1441	1431
47.5	1816	1613	1538	1154	1015	1098	1126	1207	1460	1305
50.0	1980	1726	1608	1152	964	1054	1071	1187	1380	1199
52.5	2191	1872	1692	1157	907	1001	1019	1175	1270	1109
55.0	2418	2015	1780	1165	861	948	970	1132	1166	1029
57.5	2613	2135	1847	1161	807	894	915	1062	1060	933
60.0	2717	2192	1827	1143	756	841	853	986	930	848
62.5	2675	2118	1647	1094	691	774	797	889	830	789
65.0	2396	1819	1282	970	627	707	731	820	747	743
67.5	1863	1358	867	787	556	632	668	765	673	702
70.0	1168	832	544	576	473	546	608	698	606	661
72.5	594	443	369	417	392	464	541	611	541	610
75.0	396	280	252	304	303	373	460	514	457	511
77.5	251	170	162	208	228	292	370	377	297	314

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CANDELA TABULATION - (Cont.)

80.0	136	99	113	150	177	227	246	203	177	211
82.5	87	65	79	109	133	130	134	150	121	150
85.0	53	35	47	71	69	71	84	87	61	95
87.5	23	10	19	27	28	32	34	33	25	40
90.0	5	3	4	4	4	4	3	3	3	4
92.5	5	3	4	4	4	4	3	2	1	0
95.0	6	3	5	5	5	4	4	3	2	1
97.5	6	4	5	5	5	5	5	4	2	1
100.0	5	4	5	5	5	5	5	4	3	2
102.5	5	4	5	5	5	5	5	4	3	2
105.0	5	4	4	5	5	5	5	4	3	2
107.5	4	3	4	4	5	4	4	3	3	2
110.0	4	3	4	4	4	4	4	3	3	2
112.5	3	3	4	4	4	4	4	3	3	2
115.0	3	3	4	4	4	4	4	3	3	2
117.5	3	4	4	4	4	4	4	4	3	2
120.0	3	4	4	4	4	4	4	4	3	2
122.5	3	4	4	4	4	4	4	4	3	2
125.0	4	4	4	4	4	4	4	4	3	2
127.5	4	4	4	4	4	4	4	4	3	2
130.0	4	4	4	4	4	4	4	3	3	2
132.5	4	4	4	4	4	4	4	3	3	2
135.0	4	4	4	4	4	4	3	3	2	2
137.5	4	4	4	4	4	4	3	3	2	2
140.0	4	4	4	4	4	4	3	2	2	1
142.5	3	4	4	4	4	3	3	2	2	1
145.0	3	3	3	3	3	2	2	1	1	0
147.5	2	2	3	3	2	2	1	0	0	0
150.0	2	2	2	2	2	2	1	0	0	0
152.5	2	2	2	2	2	2	1	0	0	0
155.0	2	2	2	2	2	1	1	0	0	0
157.5	2	2	2	2	2	1	1	0	0	0
160.0	2	2	2	2	2	1	1	0	0	0
162.5	2	2	2	2	2	1	1	0	0	0
165.0	2	2	2	2	2	1	0	0	0	0
167.5	2	2	2	2	2	1	1	0	0	0
170.0	2	2	2	2	2	1	1	0	0	0
172.5	2	2	2	2	2	1	1	0	0	0
175.0	2	2	2	2	2	1	1	0	0	0
177.5	2	2	2	2	2	1	0	0	0	0
180.0	1	1	1	1	1	1	1	1	1	1

Vert. Horizontal Angles
Angles

	<u>175</u>	<u>180</u>
0.0	802	802
2.5	824	822
5.0	789	797
7.5	759	751
10.0	776	788
12.5	842	843
15.0	899	903
17.5	974	993
20.0	1073	1083
22.5	1156	1164
25.0	1238	1255

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CANDELA TABULATION - (Cont.)

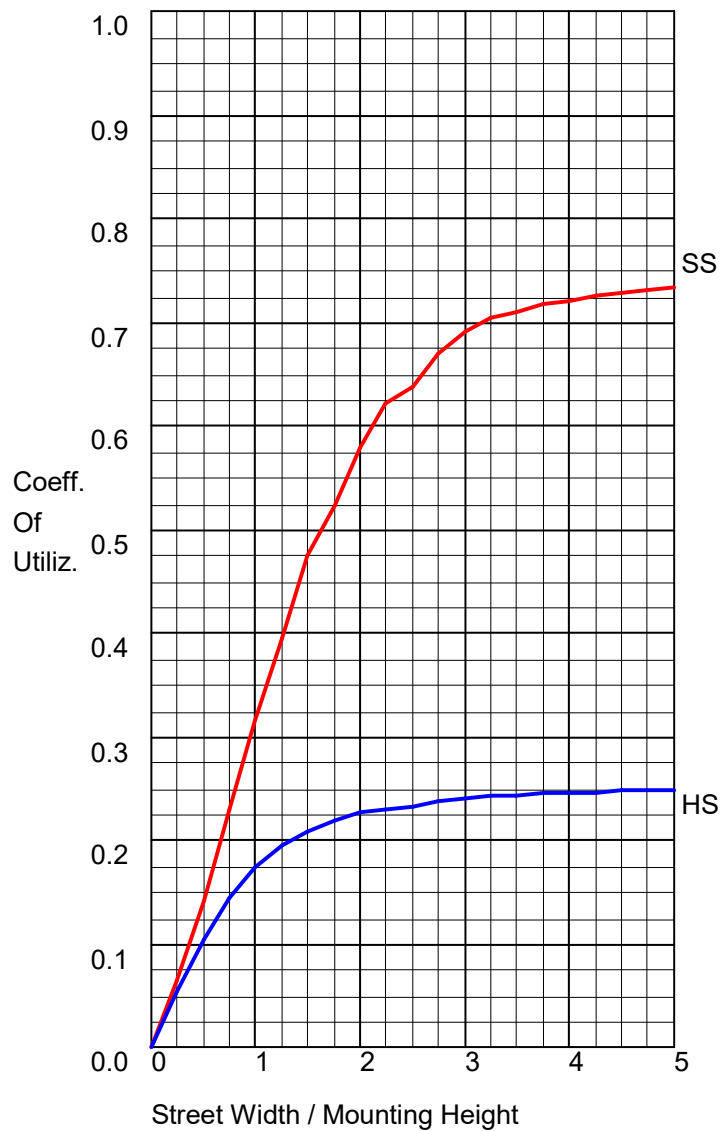
27.5	1313	1314
30.0	1395	1398
32.5	1429	1425
35.0	1441	1435
37.5	1456	1447
40.0	1467	1452
42.5	1385	1355
45.0	1254	1228
47.5	1163	1143
50.0	1089	1072
52.5	1017	1001
55.0	946	928
57.5	850	832
60.0	779	756
62.5	728	702
65.0	696	670
67.5	678	648
70.0	664	635
72.5	643	618
75.0	563	541
77.5	394	394
80.0	338	360
82.5	274	298
85.0	196	222
87.5	112	140
90.0	10	14
92.5	0	0
95.0	0	0
97.5	0	0
100.0	1	1
102.5	1	1
105.0	2	1
107.5	1	1
110.0	1	1
112.5	1	1
115.0	2	2
117.5	2	2
120.0	2	2
122.5	2	2
125.0	2	2
127.5	2	2
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	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

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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

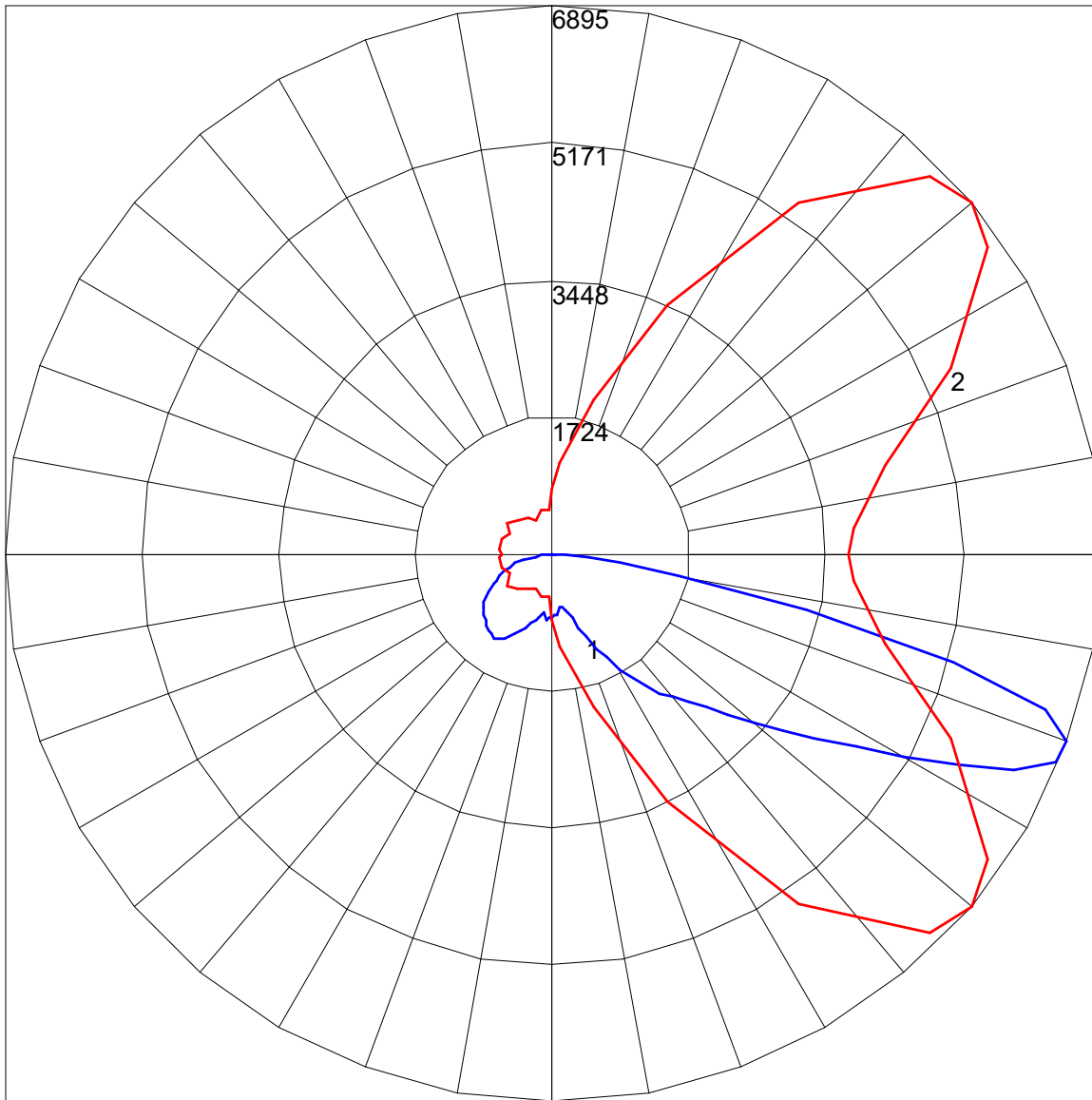
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

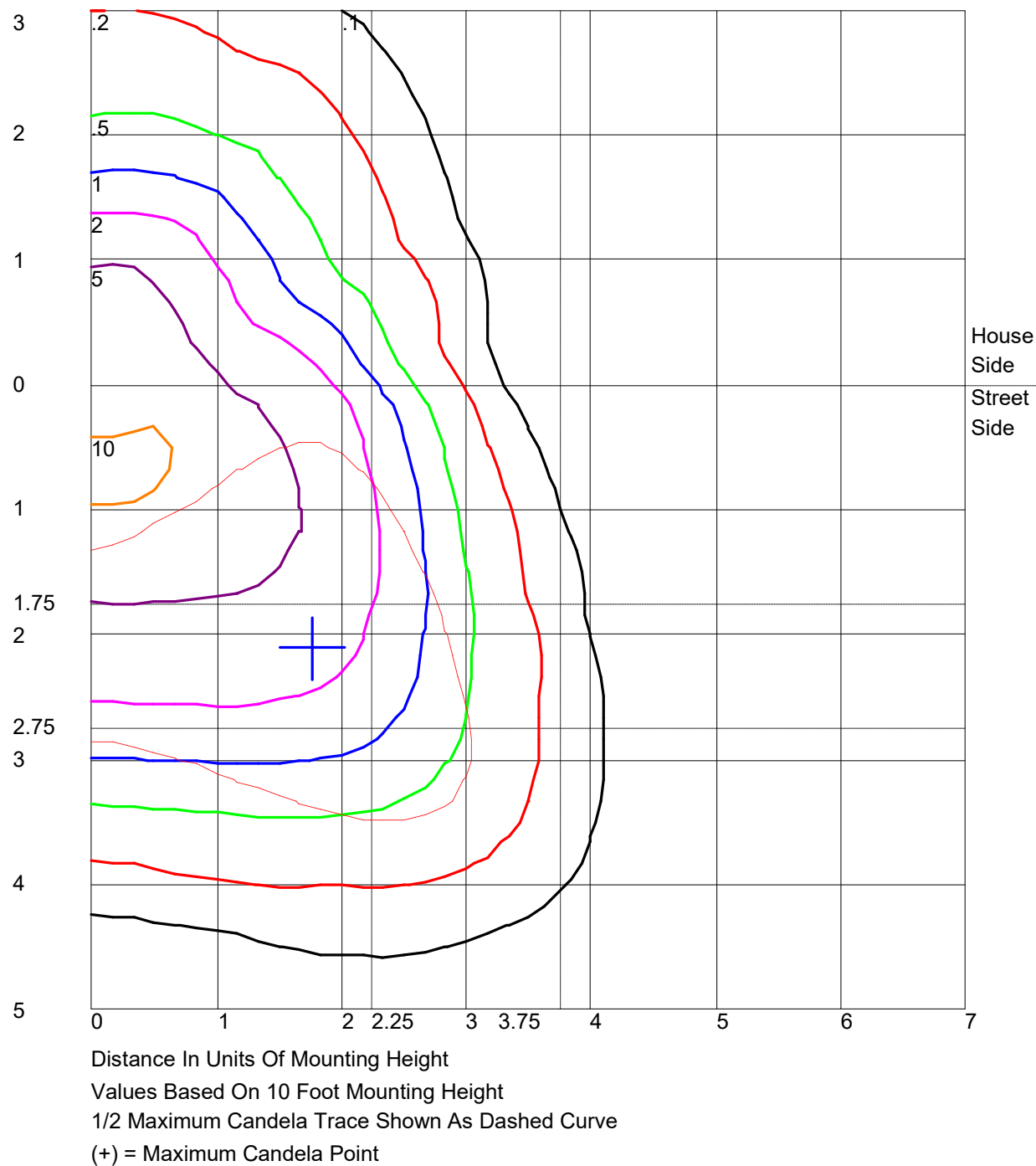
	Lumens	Percent Of Luminaire
Downward Street Side	7396.9	74.5
Downward House Side	2511.6	25.3
Downward Total	9908.5	99.8
Upward Street Side	11.1	0.1
Upward House Side	9.1	0.1
Upward Total	20.2	0.2
Total Flux	9928.7	100.0

POLAR GRAPH

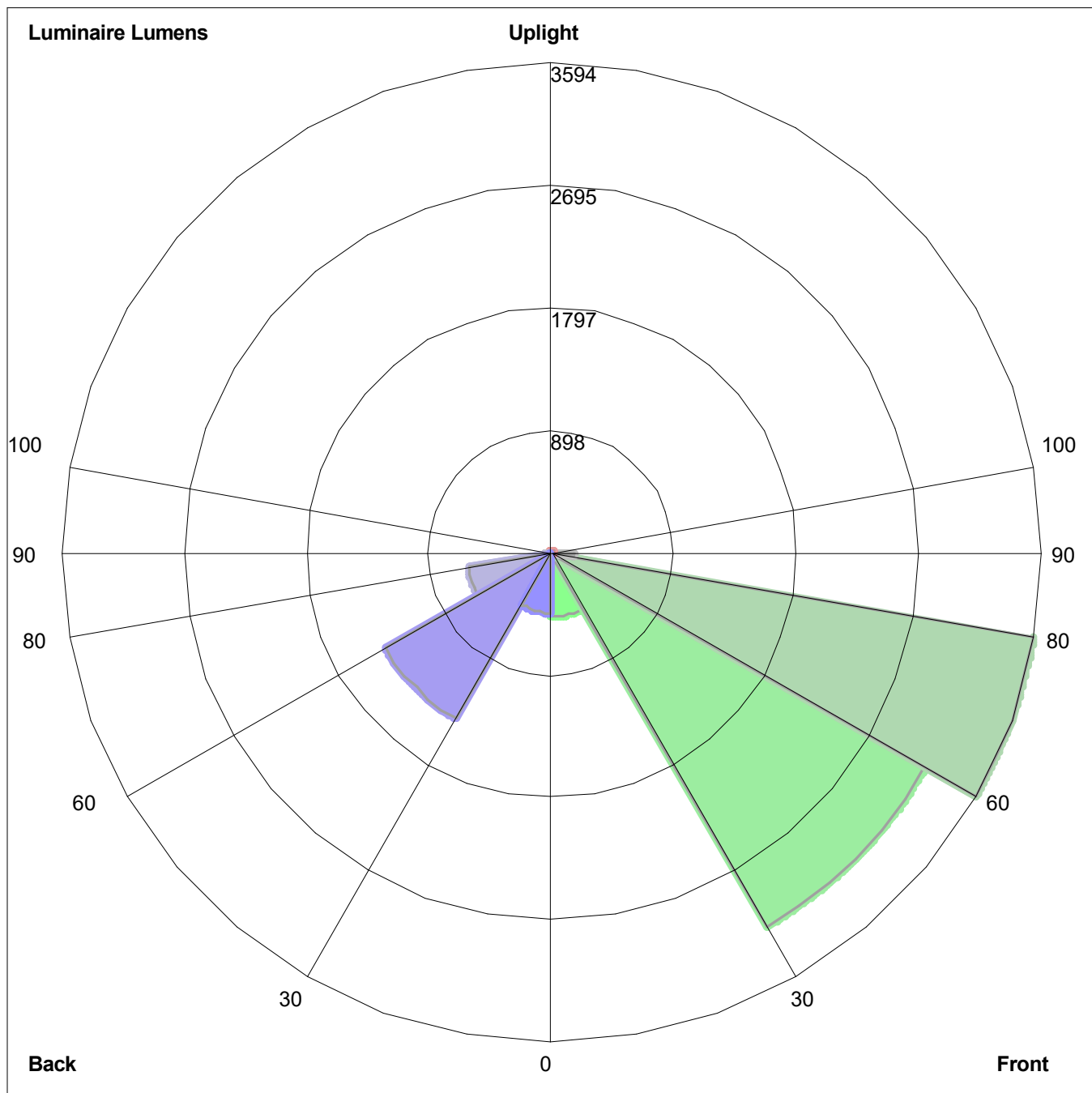


Maximum Candela = 6895 Located At Horizontal Angle = 40, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (40 - 220) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=471.1, Medium=3167.8, High=3593.8, Very High=164.3
Back: Low=440.4, Medium= 1401.0, High=619.3, Very High=50.8
Uplight: Low=5.6, High=14.6

BUG Rating : B2-U2-G2