

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L10-940-XXX-DIM-UNV-W-XXX_.IES_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] W4CR_BARBARA-WIDE DIST
[TESTLAB] LEDIL Inc
[TESTDATE] 07/03/2025
[ISSUEDATE] 2025-07-15
[MANUFAC] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] W4CR-xx-L10-940-xxx-DIM-UNV-W-xxx_
[LUMINAIRE] 4 INCH ROUND OUTDOOR LED CYLINDER
[MORE] WIDE DIST. W/MICROPRISM LENS
[MORE] 0-10V LED DRIVER

CHARACTERISTICS

IES Classification	Type VS
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1029
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	9.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	1297.097
Maximum Candela Angle	90H 2V
Maximum Candela (<90 Degrees Vertical)	1297.097
Maximum Candela Angle (<90 Degrees Vertical)	90H 2V
Maximum Candela At 90 Degrees Vertical	.162 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	.735 (0.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L10-940-XXX-DIM-UNV-W-XXX_.IES_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	398.3	N.A.	38.7
FM - Front-Medium (30-60)	111.2	N.A.	10.8
FH - Front-High (60-80)	4.8	N.A.	0.5
FVH - Front-Very High (80-90)	0.3	N.A.	0.0
BL - Back-Low (0-30)	398.3	N.A.	38.7
BM - Back-Medium (30-60)	111.2	N.A.	10.8
BH - Back-High (60-80)	4.8	N.A.	0.5
BVH - Back-Very High (80-90)	0.3	N.A.	0.0
UL - Uplight-Low (90-100)	0.2	N.A.	0.0
UH - Uplight-High (100-180)	< 0.05	N.A.	0.0
Total	1029.4	N.A.	100.0
BUG Rating	B1-U1-G0		

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L10-940-XXX-DIM-UNV-W-XXX_.IES_.IES****CANDELA TABULATION**

Vert. Angles	Horizontal Angles				
	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	1294.943	1294.943	1294.943	1294.943	1294.943
1	1292.874	1292.812	1293.016	1294.570	1296.047
2	1293.997	1293.612	1292.328	1294.851	1297.097
3	1292.781	1291.158	1292.351	1291.551	1294.328
4	1290.851	1289.547	1288.989	1290.485	1293.108
5	1289.109	1288.586	1287.420	1288.474	1290.043
6	1285.459	1286.140	1283.059	1285.424	1284.109
7	1280.313	1282.444	1280.028	1280.005	1278.552
8	1275.494	1275.056	1274.048	1274.236	1274.563
9	1269.317	1267.841	1266.641	1267.279	1266.795
10	1257.630	1258.003	1257.241	1256.487	1256.030
11	1243.238	1244.350	1242.815	1243.434	1241.892
12	1226.435	1225.324	1224.866	1226.728	1225.997
13	1204.544	1204.191	1205.210	1207.306	1207.179
14	1182.253	1180.407	1181.023	1181.880	1184.280
15	1154.470	1153.517	1152.021	1155.447	1154.155
16	1124.807	1122.022	1120.822	1123.284	1124.991
17	1091.851	1088.651	1088.859	1088.713	1092.563
18	1055.842	1054.192	1054.472	1052.284	1056.472
19	1017.863	1016.471	1016.317	1016.659	1019.051
20	979.288	979.131	978.135	978.654	981.873
21	942.018	940.375	939.945	941.245	942.306
22	901.305	902.978	901.905	902.985	904.274
23	863.880	863.276	863.218	864.118	867.183
24	824.740	824.001	824.840	826.713	827.794
25	785.215	784.973	785.696	788.061	788.450
26	744.679	744.875	746.614	748.537	748.340
27	700.101	701.236	705.158	706.893	705.155
28	654.023	654.269	659.711	661.503	658.861
29	604.334	605.764	610.564	611.760	609.991
30	551.710	552.871	558.036	559.225	556.825
31	494.863	497.559	500.882	503.163	502.243
32	438.009	441.028	443.178	445.785	445.028
33	380.531	382.377	385.454	387.958	387.927
34	323.050	326.327	328.461	332.057	333.253
35	269.503	273.053	274.145	277.672	279.714
36	221.325	223.964	225.048	227.494	231.090
37	178.147	180.212	181.274	183.462	187.312
38	143.415	142.765	144.903	147.191	149.237
39	111.920	113.747	114.262	116.516	119.231
40	88.003	89.829	91.133	93.018	95.483
41	69.477	70.965	72.496	76.049	79.215
42	55.774	56.862	59.427	61.335	63.019
43	46.666	47.074	48.755	50.932	52.282
44	38.544	39.302	40.913	43.267	44.032
45	33.021	33.679	35.083	36.829	37.605
46	28.894	29.433	30.648	32.017	32.537
47	25.710	26.214	27.168	28.275	28.729
48	23.306	23.714	24.449	25.372	25.852
49	21.395	21.737	22.356	23.076	23.526
50	19.833	20.122	20.653	21.241	21.606
51	18.514	18.753	19.237	19.726	20.033
52	17.280	17.499	17.910	18.318	18.564

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L10-940-XXX-DIM-UNV-W-XXX_.IES_.IES****CANDELA TABULATION - (Cont.)**

53	16.161	16.345	16.687	17.018	17.218
54	15.130	15.299	15.588	15.841	16.011
55	14.199	14.326	14.591	14.791	14.918
56	13.295	13.418	13.642	13.811	13.888
57	12.442	12.538	12.718	12.868	12.918
58	11.607	11.688	11.838	11.965	12.007
59	10.796	10.857	10.972	11.092	11.130
60	9.996	10.049	10.149	10.242	10.284
61	9.246	9.288	9.365	9.442	9.465
62	8.546	8.569	8.623	8.688	8.707
63	7.884	7.903	7.938	7.988	8.015
64	7.273	7.288	7.311	7.353	7.380
65	6.723	6.738	6.742	6.773	6.815
66	6.207	6.223	6.219	6.246	6.273
67	5.742	5.754	5.742	5.761	5.784
68	5.311	5.315	5.307	5.307	5.334
69	4.907	4.904	4.892	4.884	4.904
70	4.523	4.515	4.492	4.477	4.492
71	4.150	4.134	4.104	4.081	4.088
72	3.781	3.765	3.731	3.696	3.711
73	3.423	3.396	3.350	3.315	3.334
74	3.054	3.023	2.977	2.938	2.961
75	2.658	2.634	2.584	2.558	2.573
76	2.223	2.204	2.150	2.138	2.146
77	1.731	1.723	1.669	1.661	1.669
78	1.169	1.169	1.127	1.104	1.111
79	0.811	0.819	0.800	0.796	0.785
80	0.735	0.731	0.727	0.723	0.719
81	0.685	0.685	0.685	0.681	0.681
82	0.646	0.642	0.646	0.642	0.642
83	0.600	0.600	0.604	0.600	0.600
84	0.554	0.550	0.558	0.550	0.550
85	0.500	0.496	0.500	0.496	0.496
86	0.438	0.438	0.438	0.435	0.435
87	0.369	0.365	0.369	0.365	0.362
88	0.292	0.288	0.292	0.288	0.285
89	0.212	0.208	0.208	0.200	0.200
90	0.162	0.154	0.154	0.142	0.135
91	0.150	0.142	0.146	0.138	0.135
92	0.150	0.142	0.146	0.135	0.135
93	0.150	0.146	0.146	0.138	0.135
94	0.150	0.146	0.146	0.138	0.138
95	0.154	0.146	0.146	0.138	0.138
96	0.154	0.146	0.146	0.138	0.138
97	0.154	0.150	0.150	0.142	0.142
98	0.154	0.150	0.154	0.142	0.146
99	0.158	0.154	0.154	0.146	0.146
100	0.158	0.154	0.158	0.146	0.150
101	0.000	0.000	0.000	0.000	0.000
102	0.000	0.000	0.000	0.000	0.000
103	0.000	0.000	0.000	0.000	0.000
104	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000
106	0.000	0.000	0.000	0.000	0.000
107	0.000	0.000	0.000	0.000	0.000
108	0.000	0.000	0.000	0.000	0.000

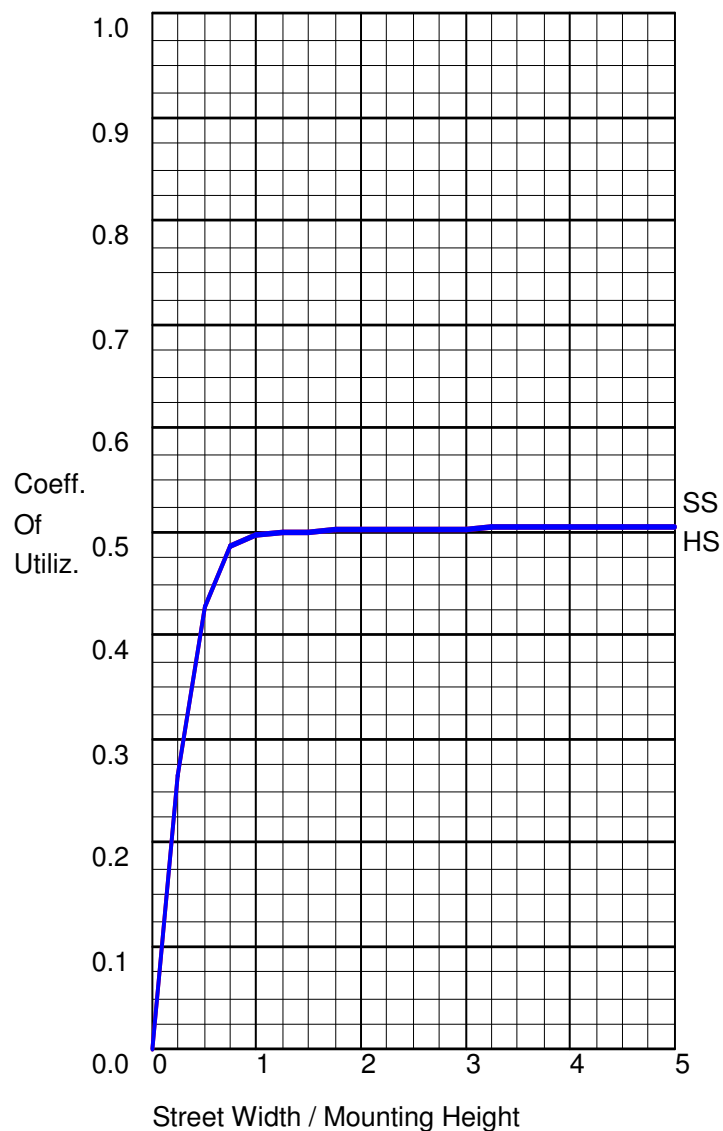
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L10-940-XXX-DIM-UNV-W-XXX_.IES_.IES****CANDELA TABULATION - (Cont.)**

109	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000
111	0.000	0.000	0.000	0.000	0.000
112	0.000	0.000	0.000	0.000	0.000
113	0.000	0.000	0.000	0.000	0.000
114	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000
116	0.000	0.000	0.000	0.000	0.000
117	0.000	0.000	0.000	0.000	0.000
118	0.000	0.000	0.000	0.000	0.000
119	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000
121	0.000	0.000	0.000	0.000	0.000
122	0.000	0.000	0.000	0.000	0.000
123	0.000	0.000	0.000	0.000	0.000
124	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000
126	0.000	0.000	0.000	0.000	0.000
127	0.000	0.000	0.000	0.000	0.000
128	0.000	0.000	0.000	0.000	0.000
129	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000
131	0.000	0.000	0.000	0.000	0.000
132	0.000	0.000	0.000	0.000	0.000
133	0.000	0.000	0.000	0.000	0.000
134	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000
136	0.000	0.000	0.000	0.000	0.000
137	0.000	0.000	0.000	0.000	0.000
138	0.000	0.000	0.000	0.000	0.000
139	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000
141	0.000	0.000	0.000	0.000	0.000
142	0.000	0.000	0.000	0.000	0.000
143	0.000	0.000	0.000	0.000	0.000
144	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000
146	0.000	0.000	0.000	0.000	0.000
147	0.000	0.000	0.000	0.000	0.000
148	0.000	0.000	0.000	0.000	0.000
149	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000
151	0.000	0.000	0.000	0.000	0.000
152	0.000	0.000	0.000	0.000	0.000
153	0.000	0.000	0.000	0.000	0.000
154	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000
156	0.000	0.000	0.000	0.000	0.000
157	0.000	0.000	0.000	0.000	0.000
158	0.000	0.000	0.000	0.000	0.000
159	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000
161	0.000	0.000	0.000	0.000	0.000
162	0.000	0.000	0.000	0.000	0.000
163	0.000	0.000	0.000	0.000	0.000
164	0.000	0.000	0.000	0.000	0.000

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L10-940-XXX-DIM-UNV-W-XXX_.IES_.IES****CANDELA TABULATION - (Cont.)**

165	0.000	0.000	0.000	0.000	0.000
166	0.000	0.000	0.000	0.000	0.000
167	0.000	0.000	0.000	0.000	0.000
168	0.000	0.000	0.000	0.000	0.000
169	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000
171	0.000	0.000	0.000	0.000	0.000
172	0.000	0.000	0.000	0.000	0.000
173	0.000	0.000	0.000	0.000	0.000
174	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000
176	0.000	0.000	0.000	0.000	0.000
177	0.000	0.000	0.000	0.000	0.000
178	0.000	0.000	0.000	0.000	0.000
179	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000

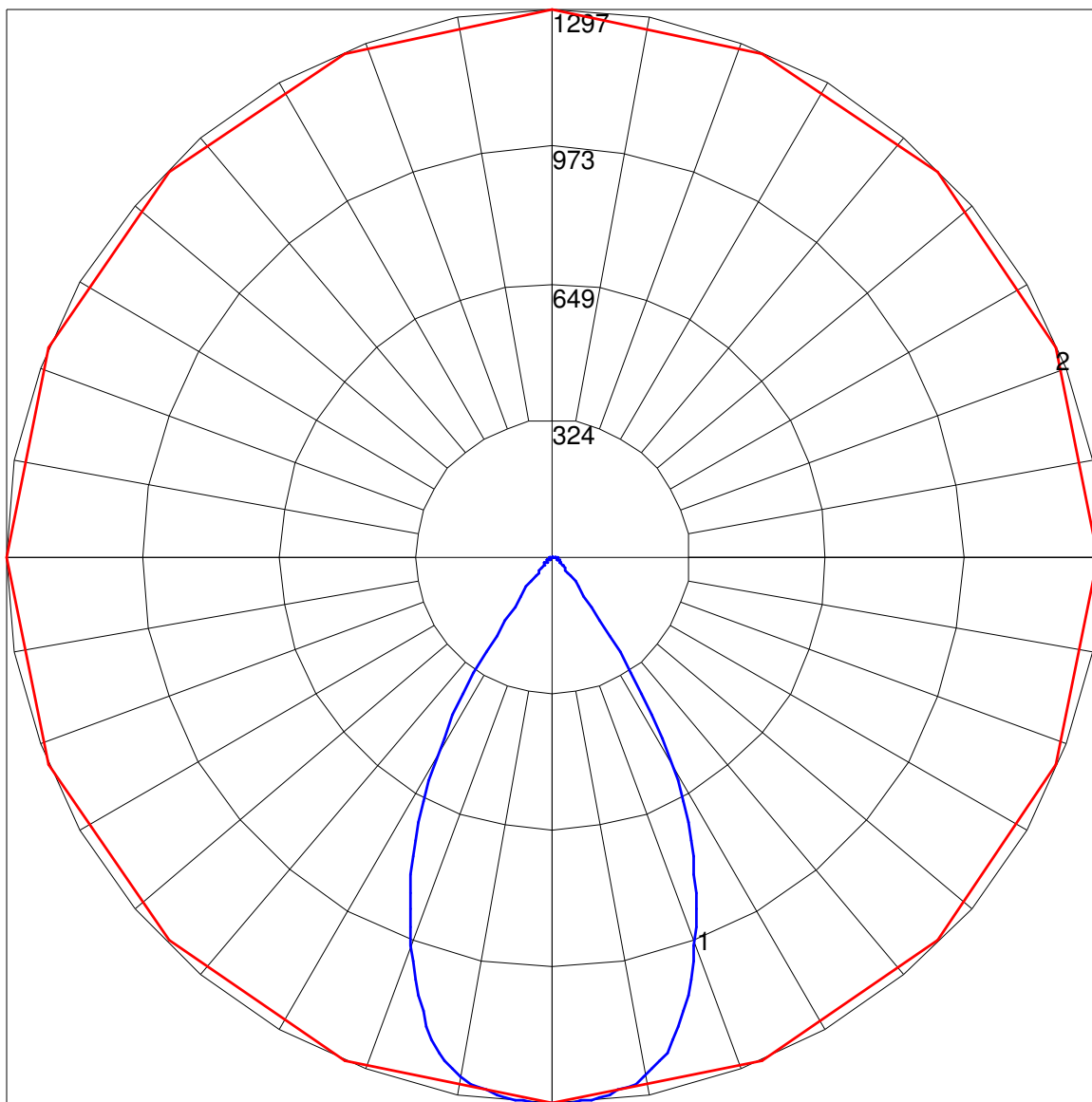
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

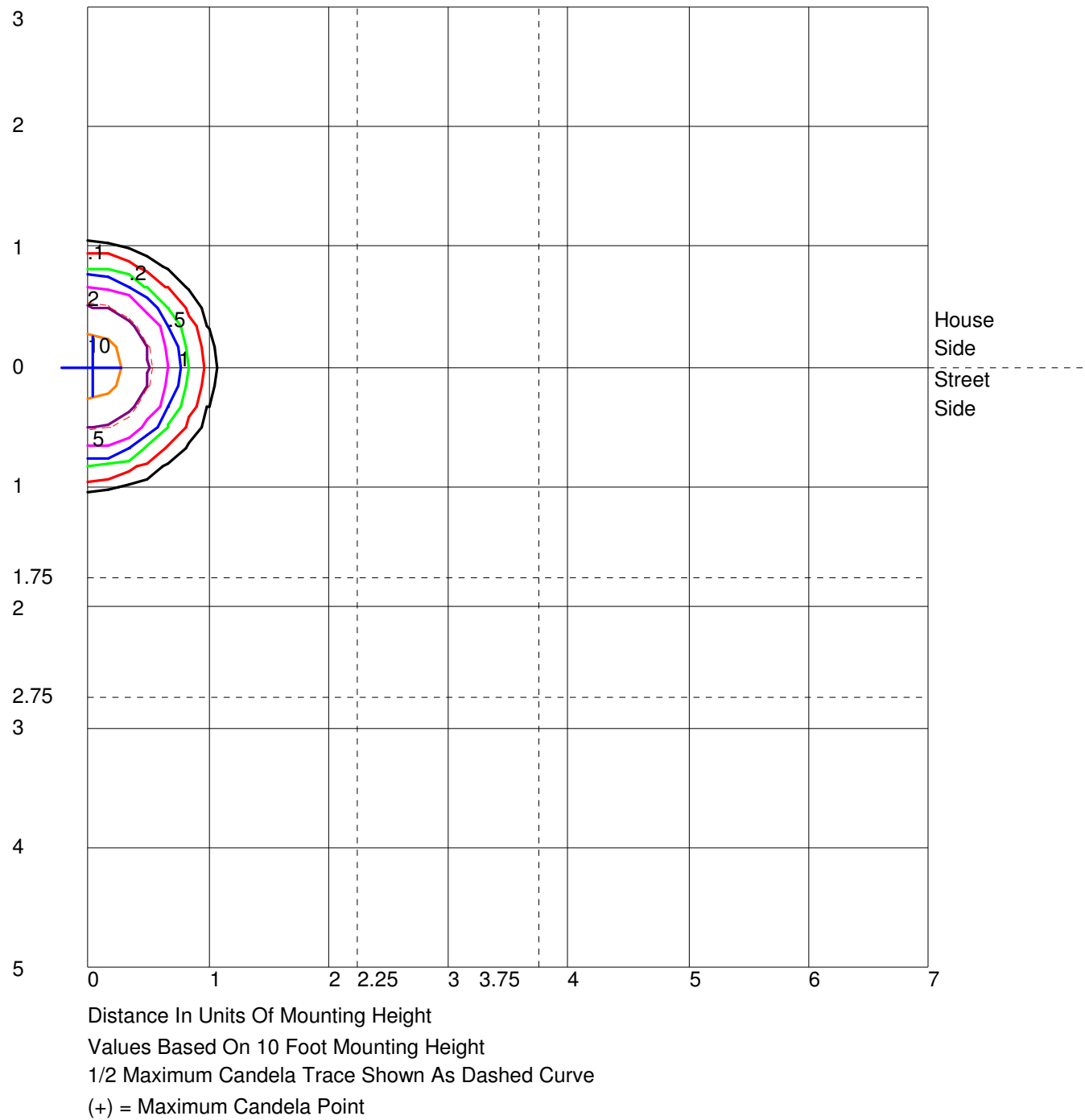
	Lumens	Percent Of Luminaire
Downward Street Side	514.5	50.0
Downward House Side	514.5	50.0
Downward Total	1029.0	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	1029.2	100.0

POLAR GRAPH

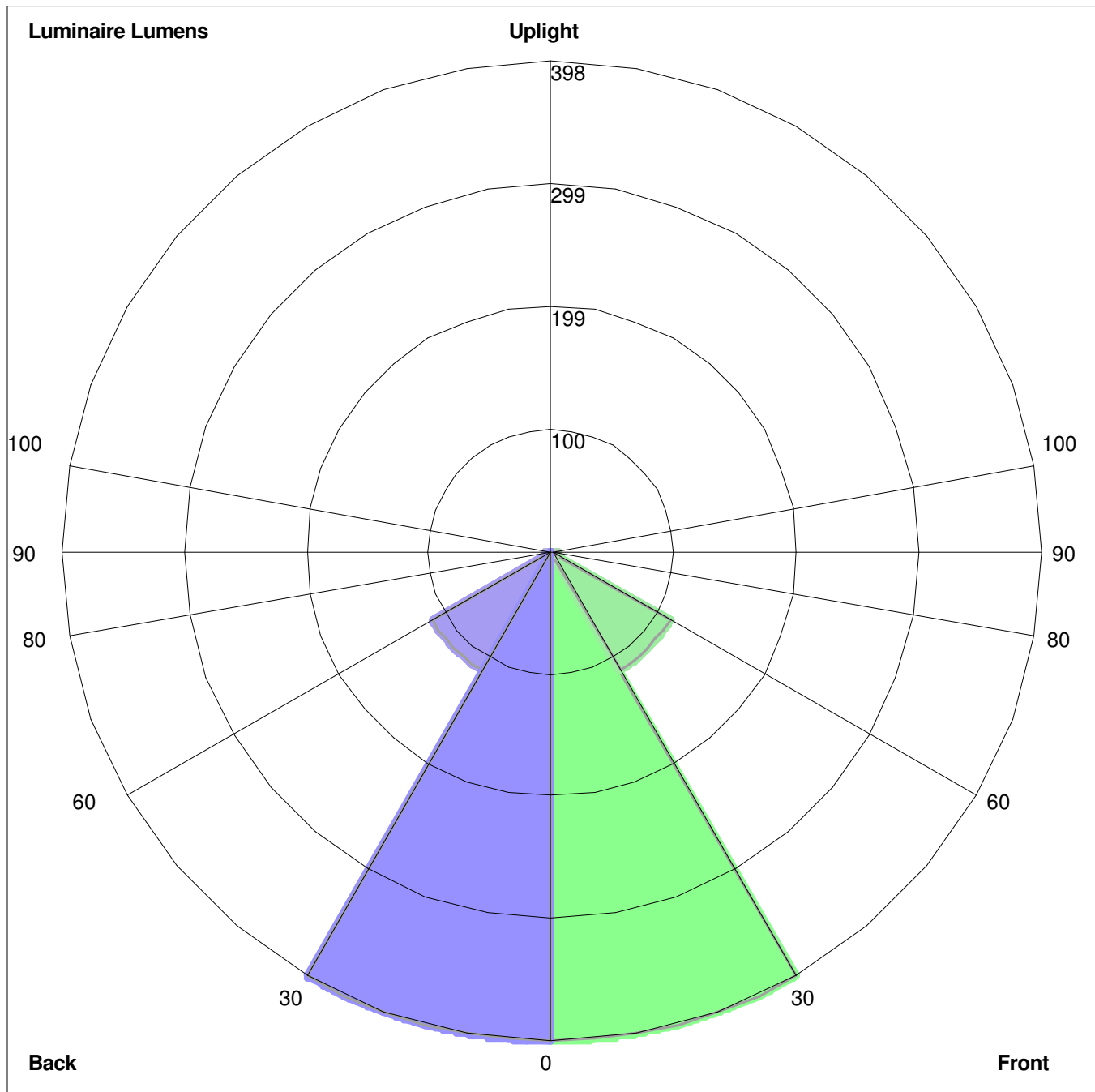


Maximum Candela = 1297.097 Located At Horizontal Angle = 90, Vertical Angle = 2
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=398.3, Medium=111.2, High=4.8, Very High=0.3
Back: Low=398.3, Medium=111.2, High=4.8, Very High=0.3
Uplight: Low=0.2, High=0.0

BUG Rating : B1-U1-G0