

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L10-930-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-L10-930-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	1019
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	9.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	1283.724
Maximum Candela Angle	90H 2V
Maximum Candela (<90 Degrees Vertical)	1283.724
Maximum Candela Angle (<90 Degrees Vertical)	90H 2V
Maximum Candela At 90 Degrees Vertical	.16 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	.727 (0.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L10-930-XXX-DIM-UNV-W-XXX_.IES_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	394.2	N.A.	38.7
FM - Front-Medium (30-60)	110.0	N.A.	10.8
FH - Front-High (60-80)	4.7	N.A.	0.5
FVH - Front-Very High (80-90)	0.3	N.A.	0.0
BL - Back-Low (0-30)	394.2	N.A.	38.7
BM - Back-Medium (30-60)	110.0	N.A.	10.8
BH - Back-High (60-80)	4.7	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	1018.6	N.A.	100.0
BUG Rating	B1-U1-G0		

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L10-930-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	1281.593	1281.593	1281.593	1281.593	1281.593
1	1279.545	1279.484	1279.686	1281.224	1282.685
2	1280.657	1280.276	1279.005	1281.502	1283.724
3	1279.454	1277.847	1279.027	1278.236	1280.984
4	1277.543	1276.253	1275.701	1277.181	1279.777
5	1275.819	1275.301	1274.148	1275.191	1276.744
6	1272.207	1272.880	1269.831	1272.172	1270.871
7	1267.114	1269.222	1266.832	1266.809	1265.371
8	1262.345	1261.911	1260.913	1261.100	1261.423
9	1256.232	1254.770	1253.582	1254.214	1253.735
10	1244.664	1245.034	1244.280	1243.534	1243.081
11	1230.421	1231.521	1230.003	1230.615	1229.089
12	1213.792	1212.692	1212.239	1214.081	1213.358
13	1192.126	1191.776	1192.785	1194.859	1194.734
14	1170.065	1168.238	1168.847	1169.696	1172.071
15	1142.569	1141.625	1140.144	1143.535	1142.256
16	1113.211	1110.455	1109.267	1111.703	1113.393
17	1080.595	1077.428	1077.633	1077.489	1081.299
18	1044.957	1043.324	1043.602	1041.436	1045.581
19	1007.370	1005.992	1005.839	1006.178	1008.546
20	969.193	969.037	968.051	968.565	971.750
21	932.306	930.681	930.254	931.541	932.591
22	892.013	893.668	892.606	893.676	894.951
23	854.974	854.376	854.319	855.210	858.243
24	816.237	815.507	816.336	818.190	819.259
25	777.120	776.880	777.596	779.937	780.321
26	737.002	737.196	738.917	740.820	740.626
27	692.883	694.006	697.889	699.605	697.885
28	647.280	647.524	652.910	654.684	652.069
29	598.103	599.519	604.269	605.453	603.702
30	546.022	547.172	552.283	553.459	551.084
31	489.761	492.430	495.718	497.975	497.066
32	433.493	436.481	438.609	441.190	440.440
33	376.608	378.435	381.480	383.958	383.928
34	319.720	322.963	325.075	328.634	329.818
35	266.725	270.238	271.319	274.809	276.831
36	219.044	221.655	222.728	225.149	228.708
37	176.311	178.355	179.405	181.571	185.381
38	141.936	141.293	143.409	145.674	147.699
39	110.766	112.574	113.085	115.315	118.002
40	87.095	88.903	90.194	92.059	94.498
41	68.760	70.233	71.748	75.265	78.398
42	55.199	56.276	58.815	60.703	62.370
43	46.185	46.589	48.252	50.407	51.743
44	38.147	38.896	40.491	42.821	43.578
45	32.681	33.332	34.721	36.449	37.218
46	28.597	29.129	30.332	31.687	32.201
47	25.445	25.944	26.888	27.984	28.433
48	23.066	23.470	24.197	25.110	25.586
49	21.174	21.513	22.126	22.838	23.283
50	19.629	19.914	20.440	21.022	21.384
51	18.323	18.559	19.039	19.522	19.827
52	17.102	17.319	17.726	18.129	18.373

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L10-930-XXX-DIM-UNV-W-XXX_.IES_.IES****CANDELA TABULATION - (Cont.)**

53	15.994	16.177	16.515	16.843	17.041
54	14.974	15.141	15.427	15.678	15.846
55	14.053	14.178	14.441	14.639	14.765
56	13.158	13.280	13.501	13.668	13.744
57	12.313	12.408	12.587	12.736	12.785
58	11.487	11.567	11.716	11.841	11.883
59	10.684	10.745	10.859	10.977	11.015
60	9.893	9.946	10.045	10.136	10.178
61	9.150	9.192	9.268	9.344	9.367
62	8.458	8.480	8.534	8.598	8.617
63	7.803	7.822	7.856	7.906	7.932
64	7.198	7.213	7.236	7.278	7.304
65	6.653	6.669	6.672	6.703	6.745
66	6.143	6.159	6.155	6.181	6.208
67	5.683	5.694	5.683	5.702	5.725
68	5.256	5.260	5.253	5.253	5.279
69	4.857	4.853	4.842	4.834	4.853
70	4.476	4.469	4.446	4.431	4.446
71	4.107	4.092	4.061	4.038	4.046
72	3.742	3.726	3.692	3.658	3.673
73	3.388	3.361	3.315	3.281	3.300
74	3.022	2.992	2.946	2.908	2.931
75	2.630	2.607	2.558	2.531	2.546
76	2.200	2.181	2.128	2.116	2.124
77	1.713	1.705	1.652	1.644	1.652
78	1.157	1.157	1.115	1.092	1.100
79	0.803	0.811	0.792	0.788	0.776
80	0.727	0.723	0.719	0.716	0.712
81	0.678	0.678	0.678	0.674	0.674
82	0.639	0.636	0.639	0.636	0.636
83	0.594	0.594	0.598	0.594	0.594
84	0.548	0.544	0.552	0.544	0.544
85	0.495	0.491	0.495	0.491	0.491
86	0.434	0.434	0.434	0.430	0.430
87	0.365	0.362	0.365	0.362	0.358
88	0.289	0.285	0.289	0.285	0.282
89	0.209	0.206	0.206	0.198	0.198
90	0.160	0.152	0.152	0.141	0.133
91	0.148	0.141	0.145	0.137	0.133
92	0.148	0.141	0.145	0.133	0.133
93	0.148	0.145	0.145	0.137	0.133
94	0.148	0.145	0.145	0.137	0.137
95	0.152	0.145	0.145	0.137	0.137
96	0.152	0.145	0.145	0.137	0.137
97	0.152	0.148	0.148	0.141	0.141
98	0.152	0.148	0.152	0.141	0.145
99	0.156	0.152	0.152	0.145	0.145
100	0.156	0.152	0.156	0.145	0.148
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

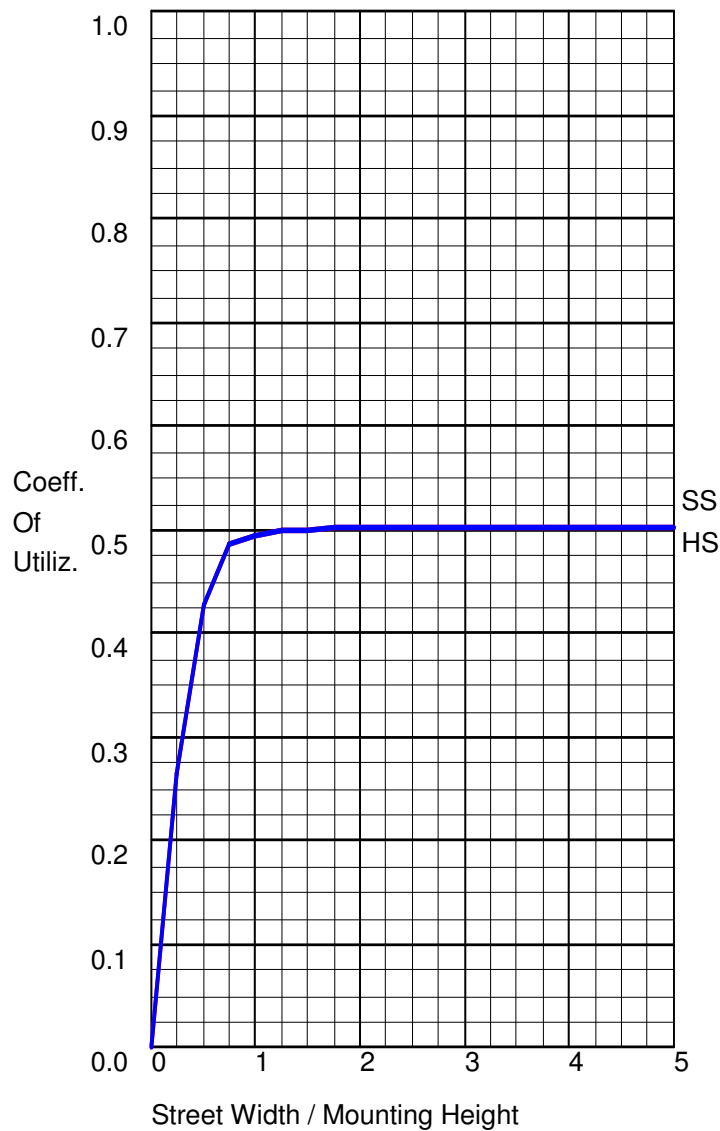
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L10-930-XXX-DIM-UNV-W-XXX_.IES_.IES****CANDELA TABULATION - (Cont.)**

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-L10-930-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

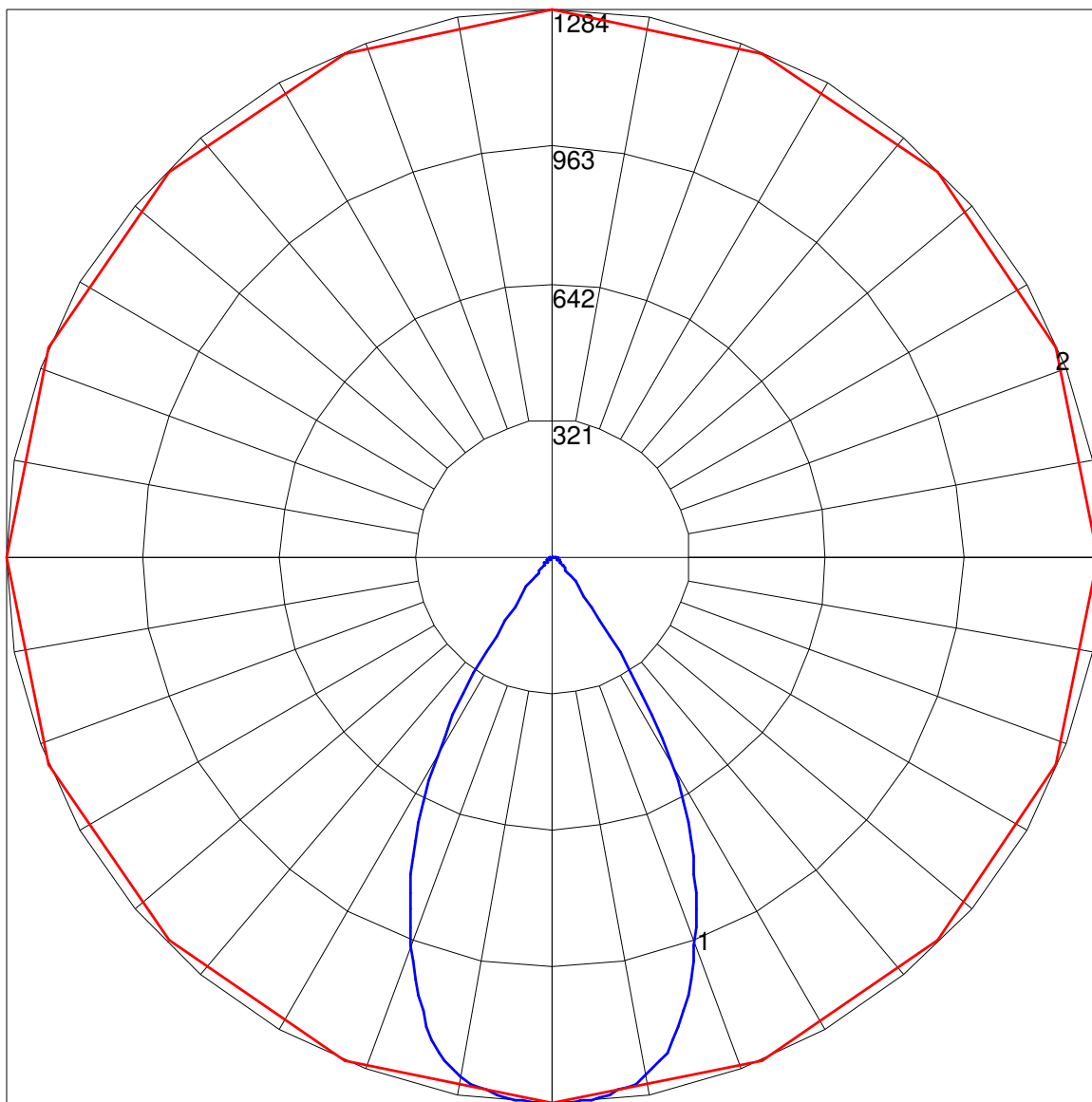
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

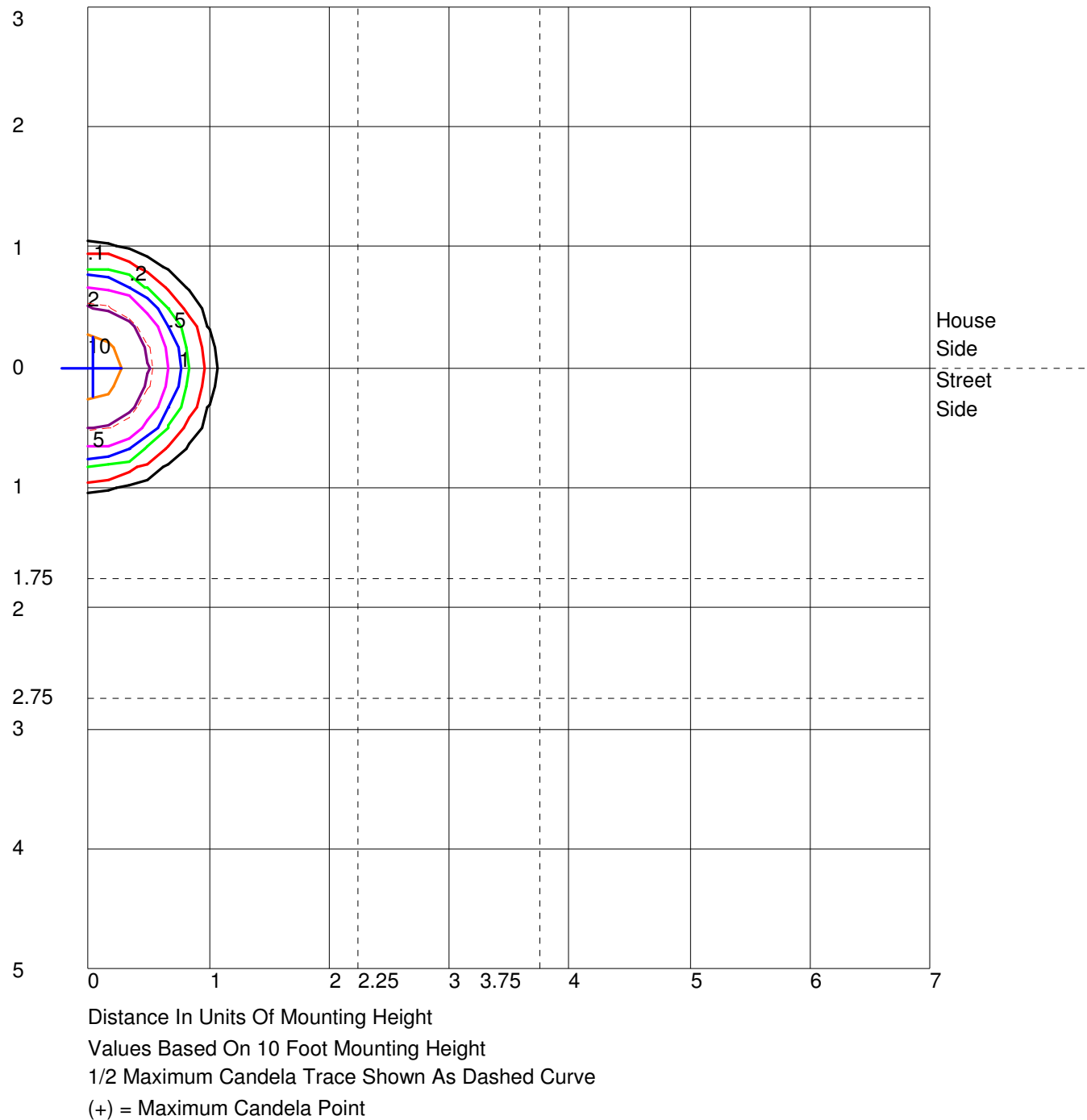
	Lumens	Percent Of Luminaire
Downward Street Side	509.2	50.0
Downward House Side	509.2	50.0
Downward Total	1018.4	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	1018.6	100.0

POLAR GRAPH

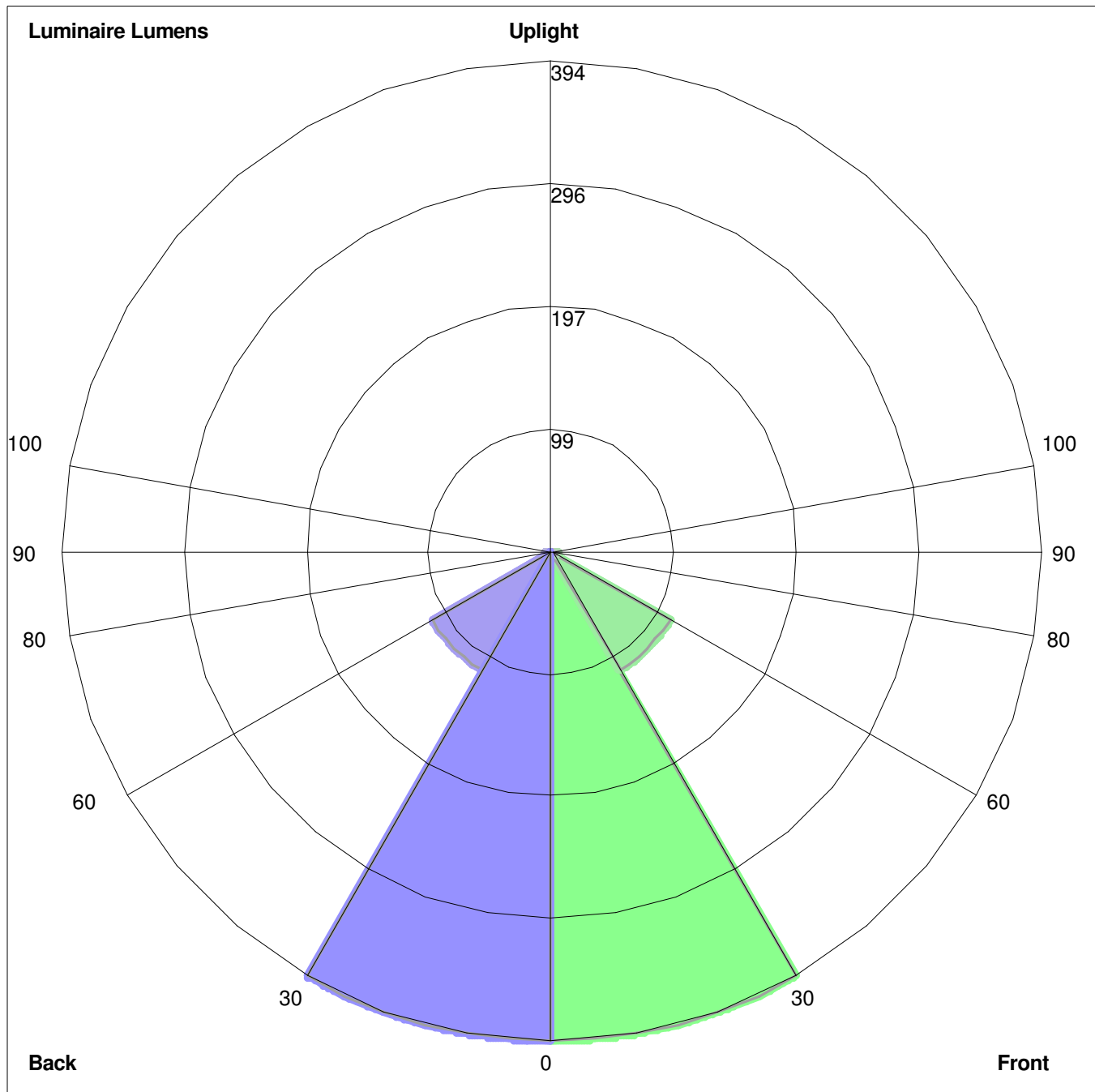


Maximum Candela = 1283.724 Located At Horizontal Angle = 90, Vertical Angle = 2
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=394.2, Medium=110.0, High=4.7, Very High=0.3
Back: Low=394.2, Medium=110.0, High=4.7, Very High=0.3
Uplight: Low=0.2, High=0.0

BUG Rating : B1-U1-G0