

## IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L10-927-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-L10-927-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	997
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	9.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	1256.98
Maximum Candela Angle	90H 2V
Maximum Candela (<90 Degrees Vertical)	1256.98
Maximum Candela Angle (<90 Degrees Vertical)	90H 2V
Maximum Candela At 90 Degrees Vertical	.157 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	.712 (0.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L10-927-XXX-DIM-UNV-W-XXX\_.IES\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	386.0	N.A.	38.7
FM - Front-Medium (30-60)	107.7	N.A.	10.8
FH - Front-High (60-80)	4.6	N.A.	0.5
FVH - Front-Very High (80-90)	0.2	N.A.	0.0
BL - Back-Low (0-30)	386.0	N.A.	38.7
BM - Back-Medium (30-60)	107.7	N.A.	10.8
BH - Back-High (60-80)	4.6	N.A.	0.5
BVH - Back-Very High (80-90)	0.2	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	997.2	N.A.	100.0
BUG Rating	B1-U1-G0		

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## 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	1254.893	1254.893	1254.893	1254.893	1254.893
1	1252.888	1252.828	1253.026	1254.532	1255.963
2	1253.976	1253.604	1252.359	1254.804	1256.980
3	1252.799	1251.226	1252.381	1251.606	1254.297
4	1250.928	1249.664	1249.124	1250.574	1253.115
5	1249.239	1248.732	1247.603	1248.624	1250.145
6	1245.702	1246.362	1243.377	1245.669	1244.394
7	1240.716	1242.780	1240.440	1240.418	1239.009
8	1236.046	1235.621	1234.644	1234.827	1235.144
9	1230.060	1228.629	1227.466	1228.085	1227.615
10	1218.734	1219.095	1218.358	1217.627	1217.184
11	1204.788	1205.865	1204.378	1204.978	1203.483
12	1188.504	1187.427	1186.984	1188.788	1188.080
13	1167.290	1166.948	1167.935	1169.966	1169.843
14	1145.689	1143.900	1144.496	1145.327	1147.653
15	1118.765	1117.841	1116.391	1119.712	1118.460
16	1090.019	1087.321	1086.158	1088.543	1090.198
17	1058.082	1054.982	1055.183	1055.041	1058.772
18	1023.187	1021.588	1021.860	1019.739	1023.798
19	986.383	985.034	984.885	985.216	987.534
20	949.001	948.848	947.883	948.386	951.506
21	912.883	911.292	910.874	912.134	913.163
22	873.429	875.050	874.011	875.058	876.306
23	837.162	836.577	836.521	837.393	840.363
24	799.232	798.517	799.329	801.144	802.192
25	760.930	760.695	761.396	763.688	764.065
26	721.648	721.838	723.523	725.386	725.196
27	678.448	679.548	683.349	685.030	683.346
28	633.795	634.034	639.308	641.044	638.484
29	585.643	587.029	591.681	592.840	591.125
30	534.647	535.772	540.777	541.929	539.603
31	479.558	482.171	485.391	487.601	486.710
32	424.462	427.388	429.471	431.998	431.264
33	368.762	370.551	373.533	375.959	375.929
34	313.059	316.234	318.303	321.788	322.947
35	261.168	264.608	265.667	269.084	271.063
36	214.480	217.037	218.088	220.458	223.943
37	172.637	174.639	175.668	177.788	181.519
38	138.979	138.349	140.421	142.639	144.622
39	108.459	110.229	110.729	112.913	115.544
40	85.281	87.051	88.315	90.141	92.530
41	67.328	68.770	70.254	73.697	76.765
42	54.049	55.103	57.589	59.438	61.070
43	45.223	45.618	47.247	49.356	50.665
44	37.352	38.086	39.648	41.929	42.670
45	32.000	32.637	33.998	35.690	36.442
46	28.001	28.523	29.700	31.027	31.530
47	24.915	25.403	26.327	27.401	27.841
48	22.586	22.981	23.692	24.587	25.053
49	20.733	21.065	21.665	22.362	22.798
50	19.220	19.500	20.014	20.584	20.938
51	17.942	18.173	18.642	19.116	19.414
52	16.745	16.958	17.357	17.752	17.990

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L10-927-XXX-DIM-UNV-W-XXX\_.IES\_.IES****CANDELA TABULATION - (Cont.)**

53	15.661	15.840	16.171	16.492	16.686
54	14.662	14.826	15.105	15.351	15.515
55	13.760	13.883	14.140	14.334	14.457
56	12.884	13.003	13.220	13.384	13.458
57	12.057	12.150	12.325	12.470	12.519
58	11.248	11.326	11.472	11.595	11.636
59	10.462	10.521	10.633	10.749	10.786
60	9.686	9.739	9.836	9.925	9.966
61	8.960	9.001	9.075	9.150	9.172
62	8.281	8.304	8.356	8.419	8.438
63	7.640	7.659	7.692	7.741	7.767
64	7.048	7.063	7.085	7.126	7.152
65	6.515	6.530	6.533	6.563	6.604
66	6.015	6.030	6.027	6.053	6.079
67	5.564	5.576	5.564	5.583	5.605
68	5.147	5.151	5.143	5.143	5.169
69	4.756	4.752	4.741	4.733	4.752
70	4.383	4.375	4.353	4.338	4.353
71	4.021	4.007	3.977	3.954	3.962
72	3.664	3.649	3.615	3.582	3.597
73	3.317	3.291	3.246	3.213	3.231
74	2.959	2.929	2.885	2.847	2.870
75	2.575	2.553	2.505	2.478	2.493
76	2.154	2.136	2.083	2.072	2.080
77	1.677	1.670	1.618	1.610	1.618
78	1.133	1.133	1.092	1.070	1.077
79	0.786	0.794	0.775	0.771	0.760
80	0.712	0.708	0.704	0.701	0.697
81	0.663	0.663	0.663	0.660	0.660
82	0.626	0.622	0.626	0.622	0.622
83	0.581	0.581	0.585	0.581	0.581
84	0.537	0.533	0.540	0.533	0.533
85	0.485	0.481	0.485	0.481	0.481
86	0.425	0.425	0.425	0.421	0.421
87	0.358	0.354	0.358	0.354	0.350
88	0.283	0.280	0.283	0.280	0.276
89	0.205	0.201	0.201	0.194	0.194
90	0.157	0.149	0.149	0.138	0.130
91	0.145	0.138	0.142	0.134	0.130
92	0.145	0.138	0.142	0.130	0.130
93	0.145	0.142	0.142	0.134	0.130
94	0.145	0.142	0.142	0.134	0.134
95	0.149	0.142	0.142	0.134	0.134
96	0.149	0.142	0.142	0.134	0.134
97	0.149	0.145	0.145	0.138	0.138
98	0.149	0.145	0.149	0.138	0.142
99	0.153	0.149	0.149	0.142	0.142
100	0.153	0.149	0.153	0.142	0.145
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

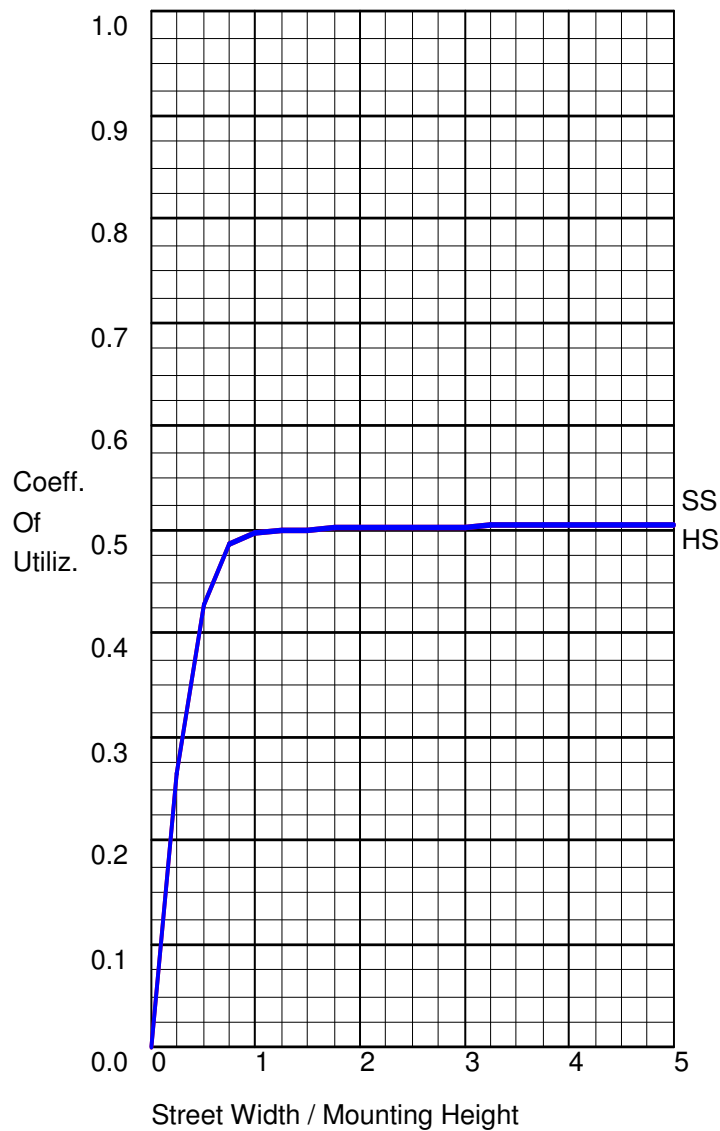
**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L10-927-XXX-DIM-UNV-W-XXX\_.IES\_.IES****CANDELA TABULATION - (Cont.)**

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-L10-927-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

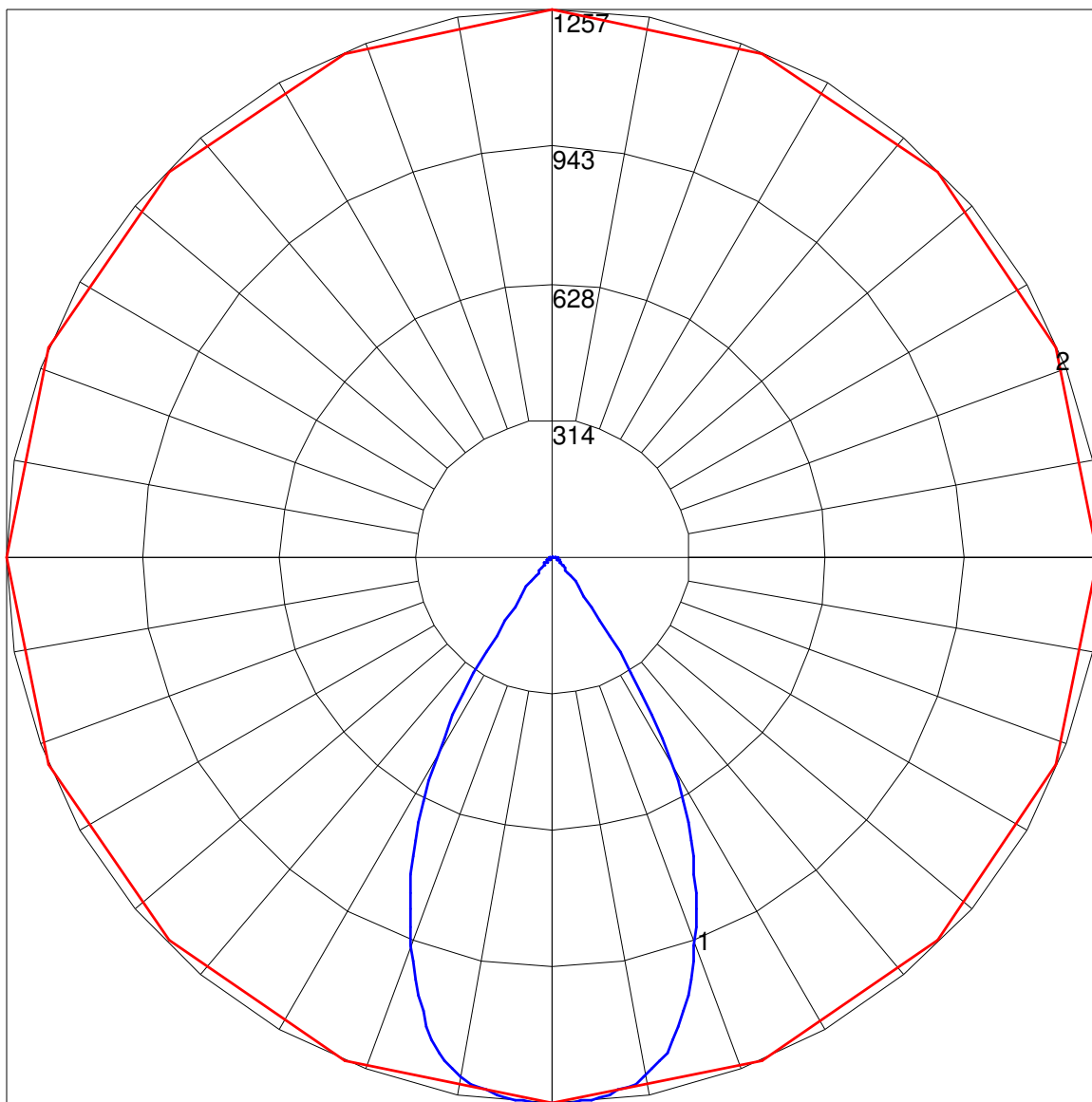
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

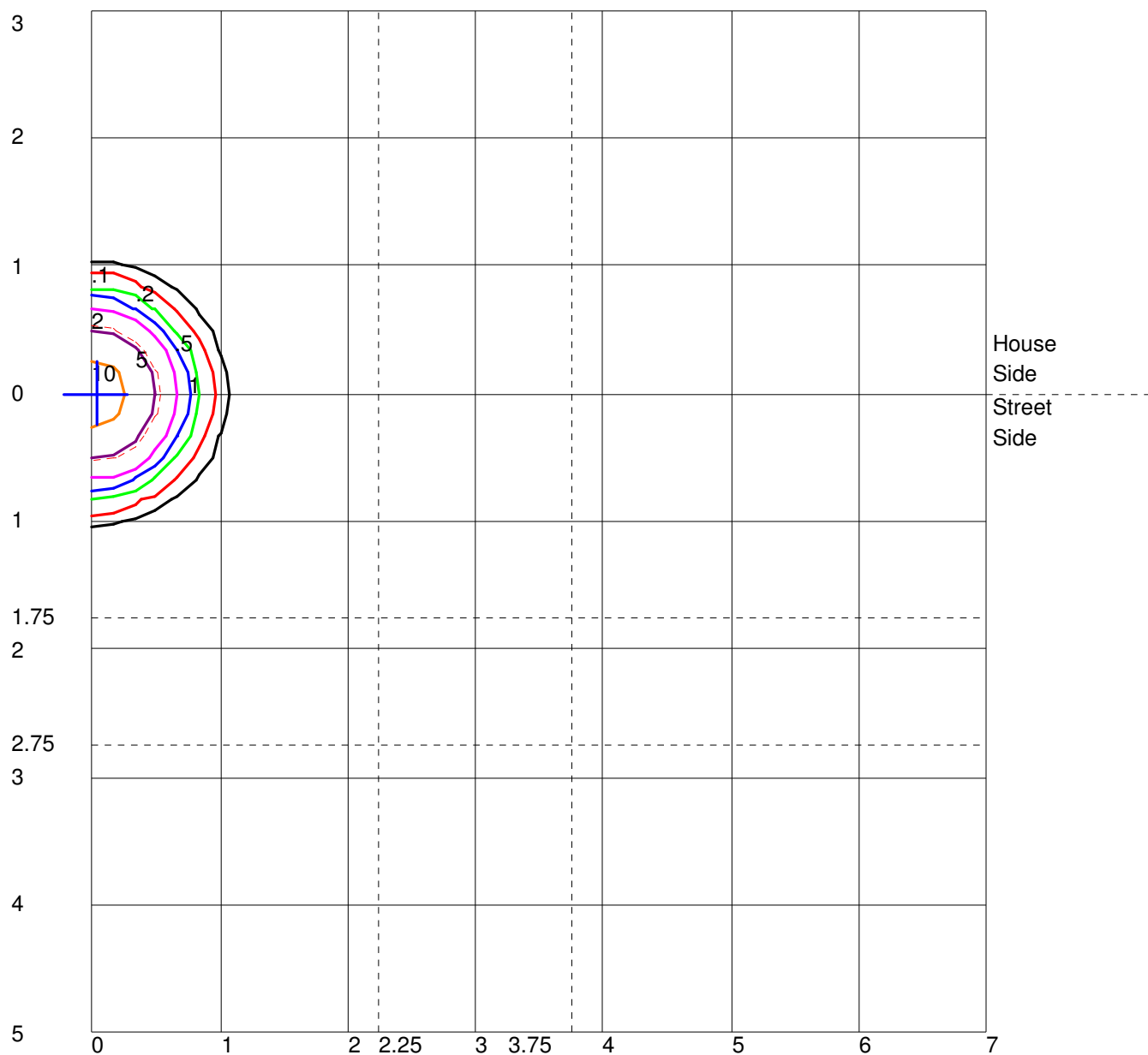
	Lumens	Percent Of Luminaire
Downward Street Side	498.6	50.0
Downward House Side	498.6	50.0
Downward Total	997.2	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	997.4	100.0

POLAR GRAPH



Maximum Candela = 1256.98 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



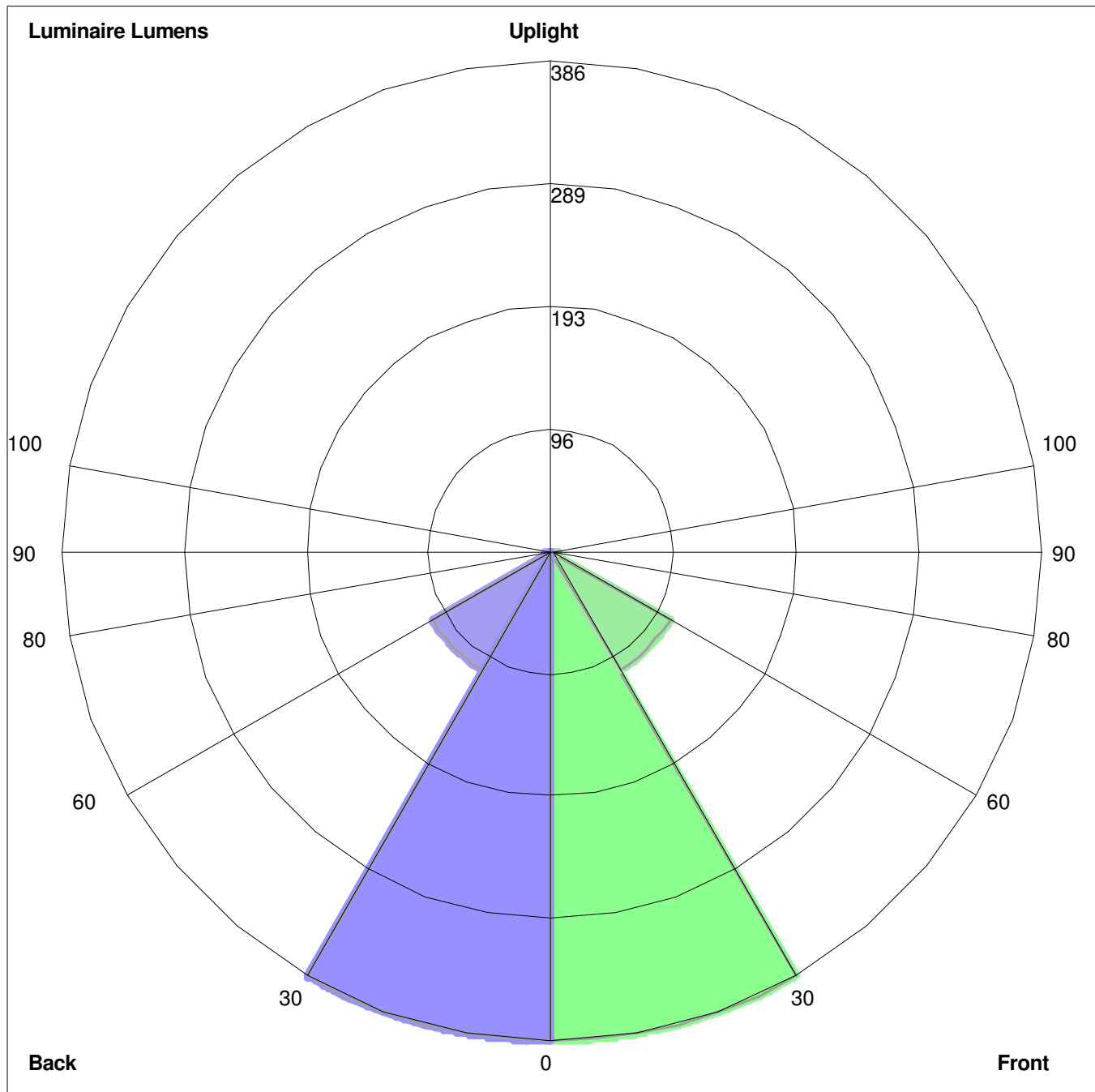
Distance In Units Of Mounting Height

Values Based On 10 Foot Mounting Height

1/2 Maximum Candela Trace Shown As Dashed Curve

(+) = Maximum Candela Point

LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
 Front: Low=386.0, Medium=107.7, High=4.6, Very High=0.2  
 Back: Low=386.0, Medium=107.7, High=4.6, Very High=0.2  
 Uplight: Low=0.2, High=0.0

BUG Rating : B1-U1-G0