

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L10-930-XXX-DIM-UNV-M-XXX_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] W4CR_BARBARA-MEDIUM 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-M-xxx
[LUMINAIRE] 4 INCH ROUND OUTDOOR LED CYLINDER
[MORE] MEDIUM DISTRIBUTION WITH 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	1001
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	1905.259
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	1905.259
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.142 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	.666 (0.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	416.5	N.A.	41.6
FM - Front-Medium (30-60)	79.4	N.A.	7.9
FH - Front-High (60-80)	4.5	N.A.	0.4
FVH - Front-Very High (80-90)	0.2	N.A.	0.0
BL - Back-Low (0-30)	416.5	N.A.	41.6
BM - Back-Medium (30-60)	79.4	N.A.	7.9
BH - Back-High (60-80)	4.5	N.A.	0.4
BVH - Back-Very High (80-90)	0.2	N.A.	0.0
UL - Uplight-Low (90-100)	0.1	N.A.	0.0
UH - Uplight-High (100-180)	< 0.05	N.A.	0.0
Total	1001.3	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	1905.259	1905.259	1905.259	1905.259	1905.259
1	1902.319	1902.770	1901.504	1901.071	1901.242
2	1894.318	1896.985	1894.973	1894.282	1891.917
3	1880.405	1881.875	1879.780	1880.318	1879.543
4	1861.067	1865.059	1861.438	1861.639	1860.893
5	1841.475	1839.797	1836.974	1836.326	1835.173
6	1810.960	1811.837	1808.129	1806.088	1805.808
7	1777.439	1776.308	1774.551	1770.821	1767.776
8	1734.867	1736.755	1732.269	1728.485	1727.517
9	1686.393	1688.055	1685.407	1682.591	1681.292
10	1631.904	1632.661	1631.428	1630.391	1627.757
11	1572.996	1572.799	1572.046	1570.281	1568.186
12	1508.007	1509.546	1505.340	1506.253	1506.632
13	1440.206	1440.315	1436.156	1440.530	1441.701
14	1367.711	1369.458	1367.922	1371.692	1373.063
15	1293.358	1295.428	1294.918	1300.078	1301.402
16	1220.601	1221.613	1221.620	1227.401	1231.407
17	1149.234	1150.391	1150.886	1155.631	1160.535
18	1076.187	1079.563	1080.284	1085.072	1091.526
19	1009.568	1010.660	1013.796	1018.475	1023.267
20	943.357	947.094	949.455	954.036	960.163
21	882.072	884.725	888.279	892.511	898.132
22	824.168	827.308	829.716	835.119	840.177
23	769.370	771.197	773.962	779.772	785.179
24	717.916	718.757	722.224	727.682	730.985
25	668.071	669.173	673.073	678.178	680.594
26	619.371	622.078	625.571	630.137	632.073
27	571.556	573.360	579.229	583.693	583.464
28	523.584	525.581	532.305	535.110	534.994
29	475.146	479.883	483.350	486.261	486.327
30	425.715	429.382	433.574	436.343	435.611
31	375.917	378.434	381.763	384.125	383.630
32	326.377	328.680	331.205	333.100	332.715
33	276.884	279.016	281.173	282.691	283.520
34	229.319	232.095	233.362	235.082	236.130
35	185.946	188.490	189.232	190.338	192.099
36	151.633	150.054	150.956	151.393	153.732
37	118.636	116.868	117.636	116.955	120.386
38	88.849	90.253	89.395	90.101	92.888
39	68.256	69.598	68.612	70.952	74.827
40	52.374	53.160	53.939	54.536	56.828
41	42.300	41.630	42.463	43.922	45.953
42	33.298	33.844	35.340	36.737	38.148
43	27.990	28.565	29.667	31.035	32.462
44	24.490	24.948	25.920	27.182	28.292
45	22.019	22.398	23.293	24.290	25.159
46	20.284	20.615	21.386	22.161	22.816
47	19.021	19.320	19.953	20.560	21.103
48	18.061	18.330	18.854	19.349	19.807
49	17.319	17.541	17.974	18.367	18.789
50	16.675	16.846	17.228	17.555	17.926
51	16.063	16.205	16.551	16.827	17.162
52	15.423	15.547	15.831	16.056	16.329

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

53	14.743	14.855	15.088	15.259	15.485
54	14.037	14.131	14.328	14.466	14.644
55	13.306	13.393	13.560	13.662	13.808
56	12.538	12.618	12.752	12.854	12.960
57	11.756	11.814	11.919	12.021	12.105
58	10.962	11.013	11.097	11.195	11.279
59	10.173	10.213	10.278	10.373	10.449
60	9.394	9.434	9.489	9.569	9.645
61	8.663	8.703	8.728	8.808	8.874
62	7.983	8.012	8.034	8.095	8.161
63	7.353	7.379	7.390	7.440	7.499
64	6.782	6.800	6.807	6.844	6.906
65	6.273	6.287	6.280	6.313	6.378
66	5.789	5.810	5.792	5.829	5.887
67	5.367	5.381	5.363	5.392	5.443
68	4.977	4.981	4.963	4.985	5.036
69	4.613	4.606	4.592	4.599	4.650
70	4.268	4.250	4.231	4.235	4.275
71	3.929	3.908	3.882	3.875	3.915
72	3.595	3.577	3.540	3.526	3.569
73	3.260	3.238	3.198	3.176	3.227
74	2.914	2.893	2.845	2.823	2.871
75	2.540	2.529	2.474	2.456	2.496
76	2.114	2.107	2.052	2.048	2.078
77	1.641	1.634	1.572	1.568	1.594
78	1.095	1.095	1.041	1.011	1.030
79	0.735	0.746	0.724	0.720	0.717
80	0.666	0.662	0.659	0.651	0.651
81	0.622	0.622	0.619	0.615	0.615
82	0.586	0.582	0.586	0.582	0.582
83	0.546	0.542	0.546	0.542	0.546
84	0.502	0.498	0.502	0.498	0.502
85	0.451	0.451	0.451	0.451	0.451
86	0.393	0.393	0.397	0.393	0.397
87	0.335	0.331	0.335	0.327	0.327
88	0.262	0.262	0.262	0.258	0.262
89	0.189	0.186	0.189	0.182	0.182
90	0.142	0.138	0.138	0.127	0.120
91	0.131	0.131	0.131	0.120	0.120
92	0.131	0.131	0.131	0.120	0.120
93	0.135	0.131	0.131	0.124	0.120
94	0.135	0.131	0.135	0.124	0.124
95	0.135	0.131	0.135	0.124	0.127
96	0.135	0.131	0.135	0.127	0.127
97	0.138	0.131	0.135	0.127	0.127
98	0.138	0.135	0.135	0.127	0.131
99	0.142	0.138	0.138	0.131	0.135
100	0.142	0.142	0.138	0.135	0.135
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

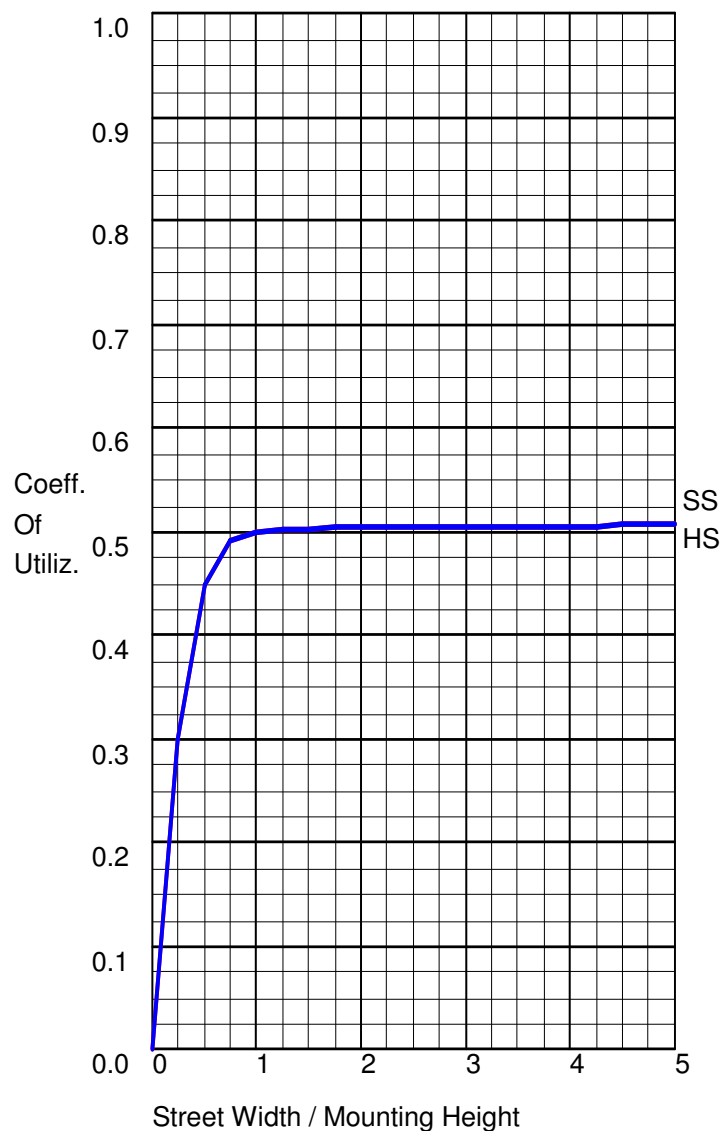
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L10-930-XXX-DIM-UNV-M-XXX_.IES****CANDELA TABULATION - (Cont.)**

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-M-XXX_.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

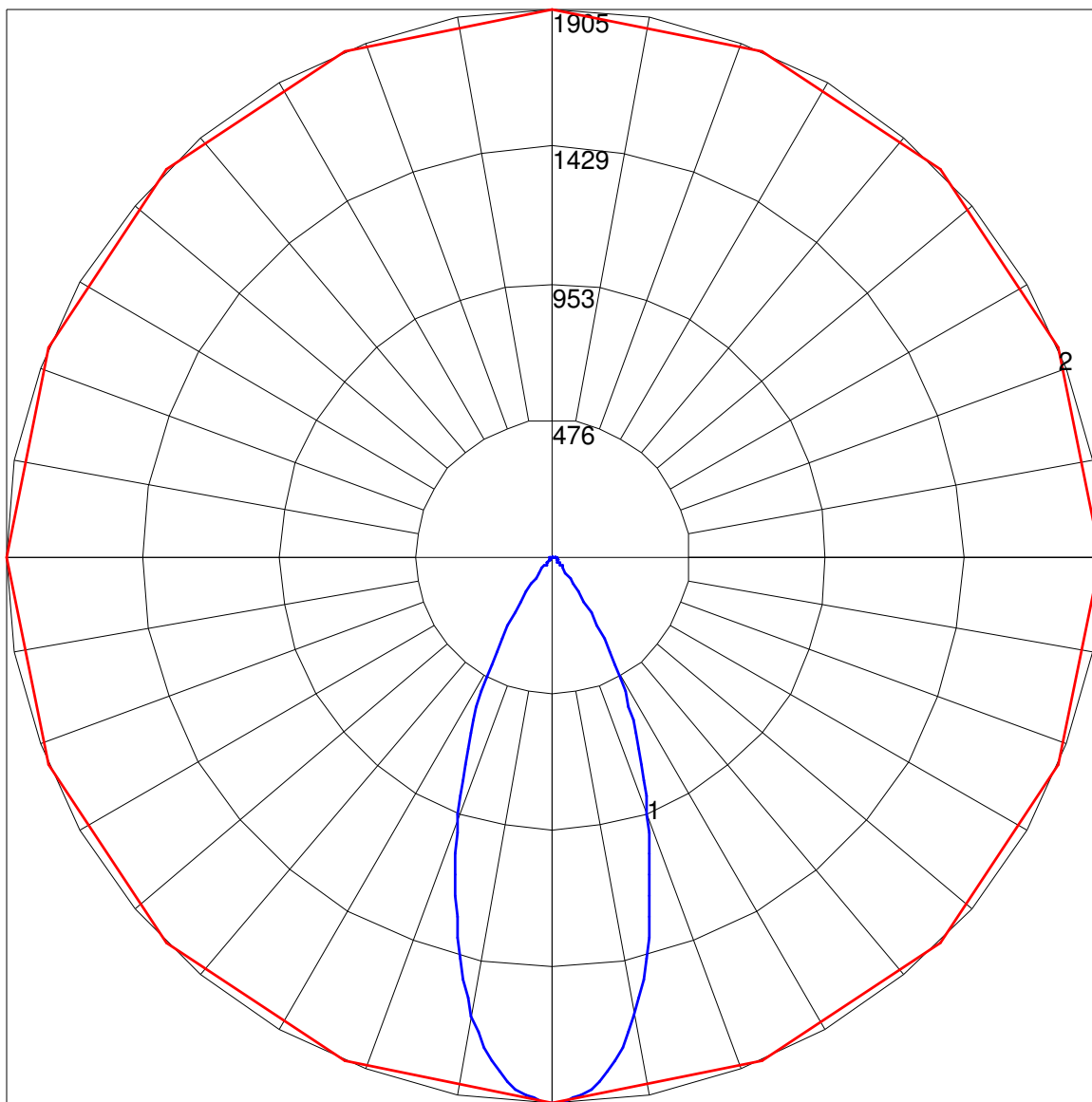
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

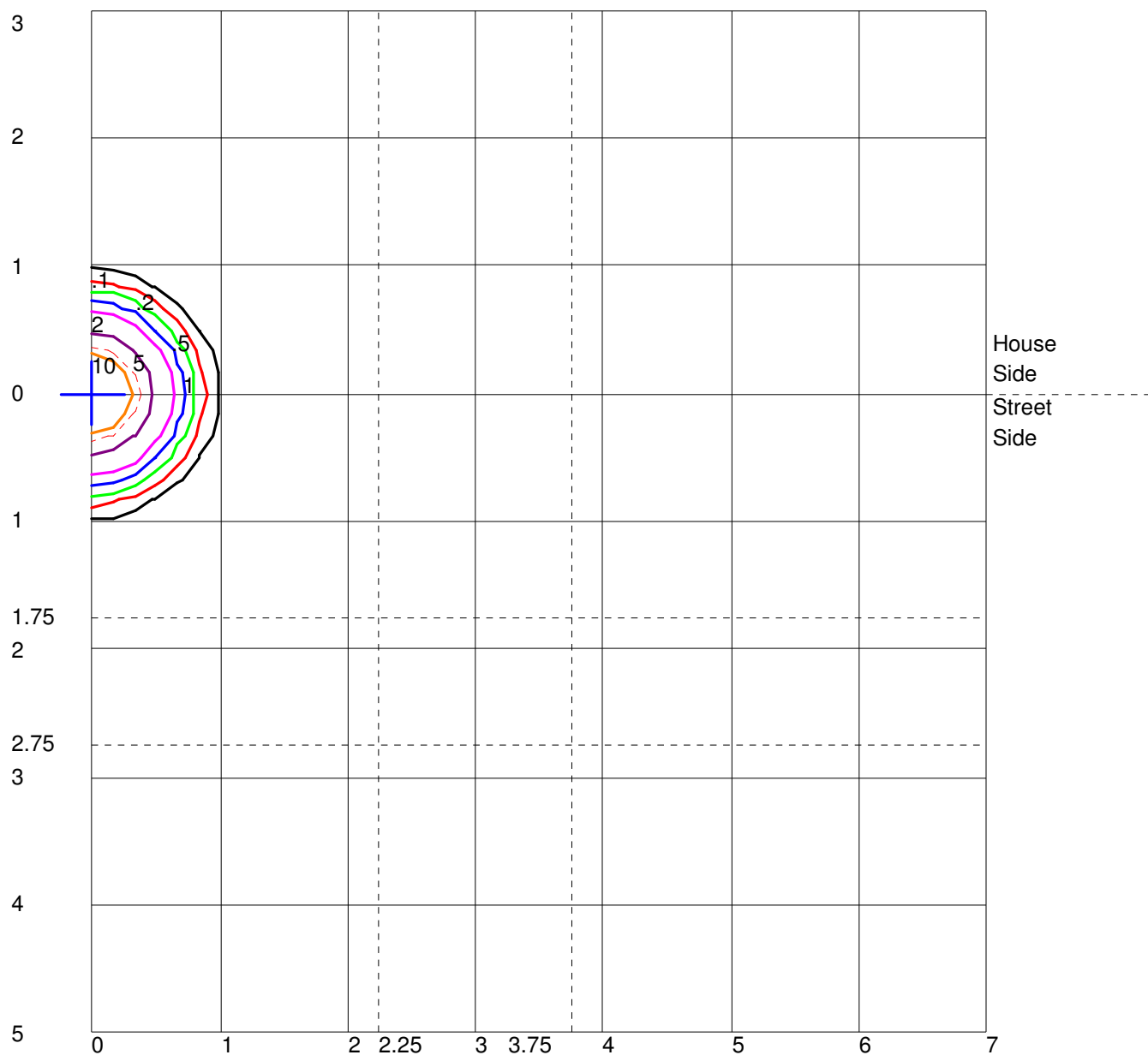
	Lumens	Percent Of Luminaire
Downward Street Side	500.6	50.0
Downward House Side	500.6	50.0
Downward Total	1001.2	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	1001.4	100.0

POLAR GRAPH



Maximum Candela = 1905.259 Located At Horizontal Angle = 90, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



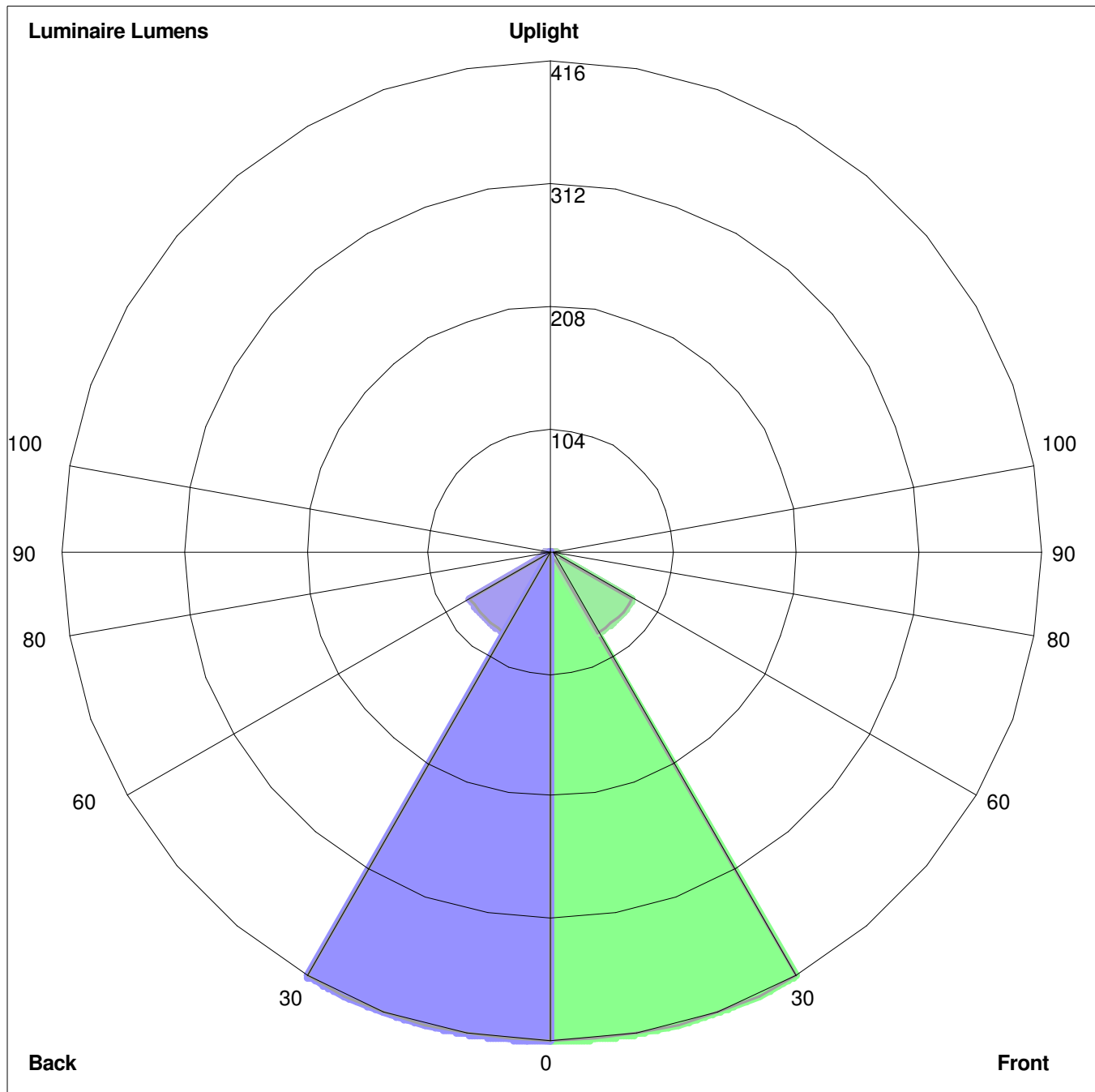
Distance In Units Of Mounting Height

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=416.5, Medium=79.4, High=4.5, Very High=0.2
Back: Low=416.5, Medium=79.4, High=4.5, Very High=0.2
Uplight: Low=0.1, High=0.0

BUG Rating : B1-U1-G0