

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L10-927-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-L10-927-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	980
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	9.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	1865.566
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	1865.566
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.139 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	.652 (0.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	407.8	N.A.	41.6
FM - Front-Medium (30-60)	77.7	N.A.	7.9
FH - Front-High (60-80)	4.4	N.A.	0.4
FVH - Front-Very High (80-90)	0.2	N.A.	0.0
BL - Back-Low (0-30)	407.8	N.A.	41.6
BM - Back-Medium (30-60)	77.7	N.A.	7.9
BH - Back-High (60-80)	4.4	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	980.3	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	1865.566	1865.566	1865.566	1865.566	1865.566
1	1862.688	1863.129	1861.890	1861.466	1861.633
2	1854.854	1857.465	1855.495	1854.818	1852.502
3	1841.230	1842.670	1840.618	1841.145	1840.386
4	1822.295	1826.203	1822.659	1822.855	1822.124
5	1803.111	1801.468	1798.704	1798.070	1796.940
6	1773.231	1774.090	1770.460	1768.461	1768.187
7	1740.409	1739.302	1737.581	1733.929	1730.947
8	1698.724	1700.573	1696.180	1692.475	1691.527
9	1651.260	1652.888	1650.294	1647.537	1646.265
10	1597.907	1598.648	1597.440	1596.425	1593.845
11	1540.225	1540.033	1539.295	1537.567	1535.515
12	1476.590	1478.097	1473.979	1474.873	1475.244
13	1410.202	1410.309	1406.237	1410.519	1411.666
14	1339.217	1340.928	1339.424	1343.115	1344.458
15	1266.413	1268.440	1267.941	1272.993	1274.290
16	1195.172	1196.162	1196.169	1201.830	1205.753
17	1125.292	1126.425	1126.909	1131.555	1136.357
18	1053.766	1057.072	1057.778	1062.466	1068.786
19	988.536	989.604	992.675	997.257	1001.949
20	923.704	927.363	929.675	934.160	940.159
21	863.696	866.293	869.774	873.917	879.421
22	806.998	810.072	812.430	817.721	822.673
23	753.342	755.130	757.838	763.527	768.821
24	702.960	703.783	707.178	712.522	715.757
25	654.153	655.232	659.051	664.049	666.415
26	606.467	609.118	612.538	617.009	618.904
27	559.648	561.415	567.162	571.533	571.308
28	512.676	514.631	521.215	523.962	523.848
29	465.247	469.886	473.281	476.131	476.195
30	416.846	420.437	424.541	427.252	426.536
31	368.085	370.550	373.810	376.122	375.638
32	319.577	321.832	324.305	326.161	325.783
33	271.115	273.203	275.316	276.801	277.613
34	224.542	227.260	228.500	230.185	231.211
35	182.072	184.563	185.289	186.372	188.097
36	148.474	146.928	147.811	148.239	150.529
37	116.165	114.433	115.185	114.519	117.878
38	86.998	88.373	87.532	88.224	90.952
39	66.834	68.148	67.183	69.474	73.268
40	51.283	52.053	52.815	53.399	55.644
41	41.418	40.763	41.579	43.007	44.995
42	32.605	33.139	34.603	35.971	37.354
43	27.407	27.970	29.049	30.389	31.785
44	23.980	24.429	25.380	26.616	27.703
45	21.561	21.931	22.808	23.784	24.635
46	19.861	20.186	20.941	21.700	22.341
47	18.625	18.917	19.537	20.132	20.663
48	17.685	17.948	18.461	18.946	19.395
49	16.958	17.175	17.599	17.984	18.397
50	16.327	16.495	16.869	17.189	17.553
51	15.729	15.868	16.206	16.477	16.805
52	15.102	15.223	15.501	15.722	15.989

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

53	14.436	14.546	14.774	14.941	15.162
54	13.744	13.837	14.029	14.165	14.339
55	13.028	13.114	13.278	13.377	13.520
56	12.277	12.355	12.487	12.587	12.690
57	11.511	11.568	11.671	11.771	11.853
58	10.734	10.784	10.866	10.962	11.044
59	9.961	10.000	10.064	10.157	10.232
60	9.199	9.238	9.291	9.370	9.444
61	8.482	8.522	8.547	8.625	8.689
62	7.816	7.845	7.866	7.927	7.991
63	7.200	7.225	7.236	7.285	7.342
64	6.641	6.658	6.666	6.701	6.762
65	6.142	6.156	6.149	6.181	6.245
66	5.668	5.689	5.672	5.707	5.764
67	5.255	5.269	5.251	5.280	5.330
68	4.874	4.877	4.859	4.881	4.931
69	4.517	4.510	4.496	4.503	4.553
70	4.179	4.161	4.143	4.147	4.186
71	3.848	3.826	3.801	3.794	3.833
72	3.520	3.502	3.466	3.452	3.495
73	3.192	3.171	3.132	3.110	3.160
74	2.854	2.832	2.786	2.765	2.811
75	2.487	2.476	2.423	2.405	2.444
76	2.070	2.063	2.009	2.006	2.034
77	1.607	1.600	1.539	1.535	1.560
78	1.072	1.072	1.019	0.990	1.008
79	0.720	0.730	0.709	0.705	0.702
80	0.652	0.648	0.645	0.638	0.638
81	0.609	0.609	0.606	0.602	0.602
82	0.574	0.570	0.574	0.570	0.570
83	0.534	0.531	0.534	0.531	0.534
84	0.492	0.488	0.492	0.488	0.492
85	0.442	0.442	0.442	0.442	0.442
86	0.385	0.385	0.388	0.385	0.388
87	0.328	0.324	0.328	0.321	0.321
88	0.257	0.257	0.257	0.253	0.257
89	0.185	0.182	0.185	0.178	0.178
90	0.139	0.135	0.135	0.125	0.118
91	0.128	0.128	0.128	0.118	0.118
92	0.128	0.128	0.128	0.118	0.118
93	0.132	0.128	0.128	0.121	0.118
94	0.132	0.128	0.132	0.121	0.121
95	0.132	0.128	0.132	0.121	0.125
96	0.132	0.128	0.132	0.125	0.125
97	0.135	0.128	0.132	0.125	0.125
98	0.135	0.132	0.132	0.125	0.128
99	0.139	0.135	0.135	0.128	0.132
100	0.139	0.139	0.135	0.132	0.132
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

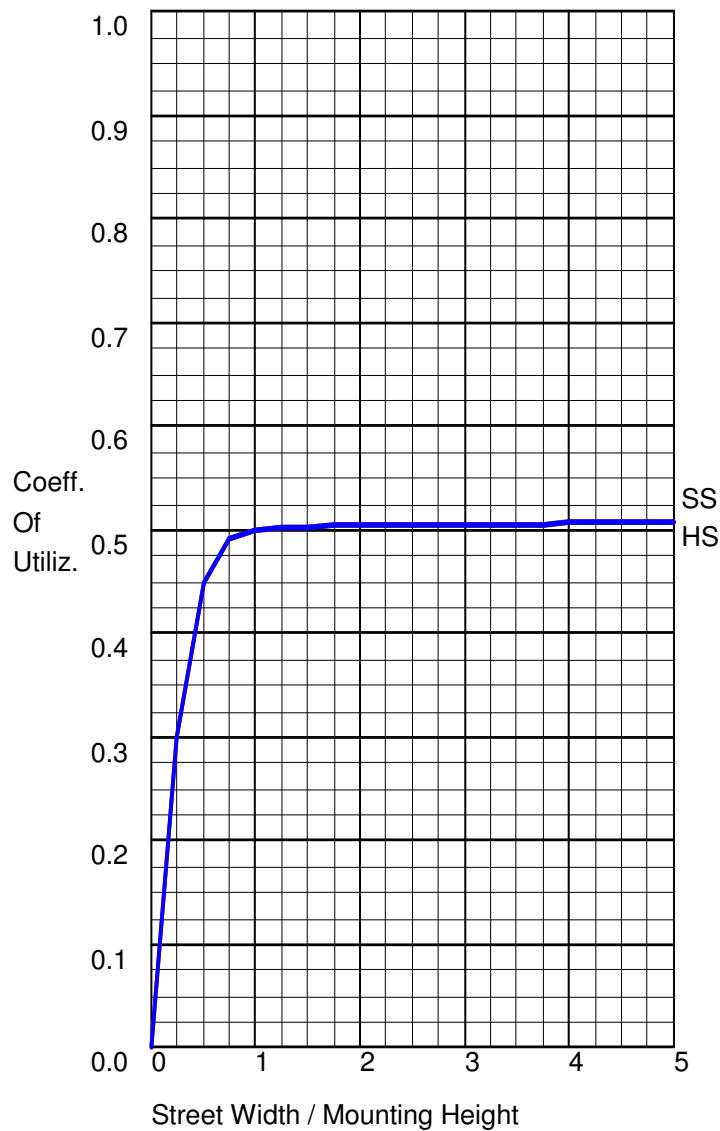
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L10-927-XXX-DIM-UNV-M-XXX_.IES****CANDELA TABULATION - (Cont.)**

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-L10-927-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

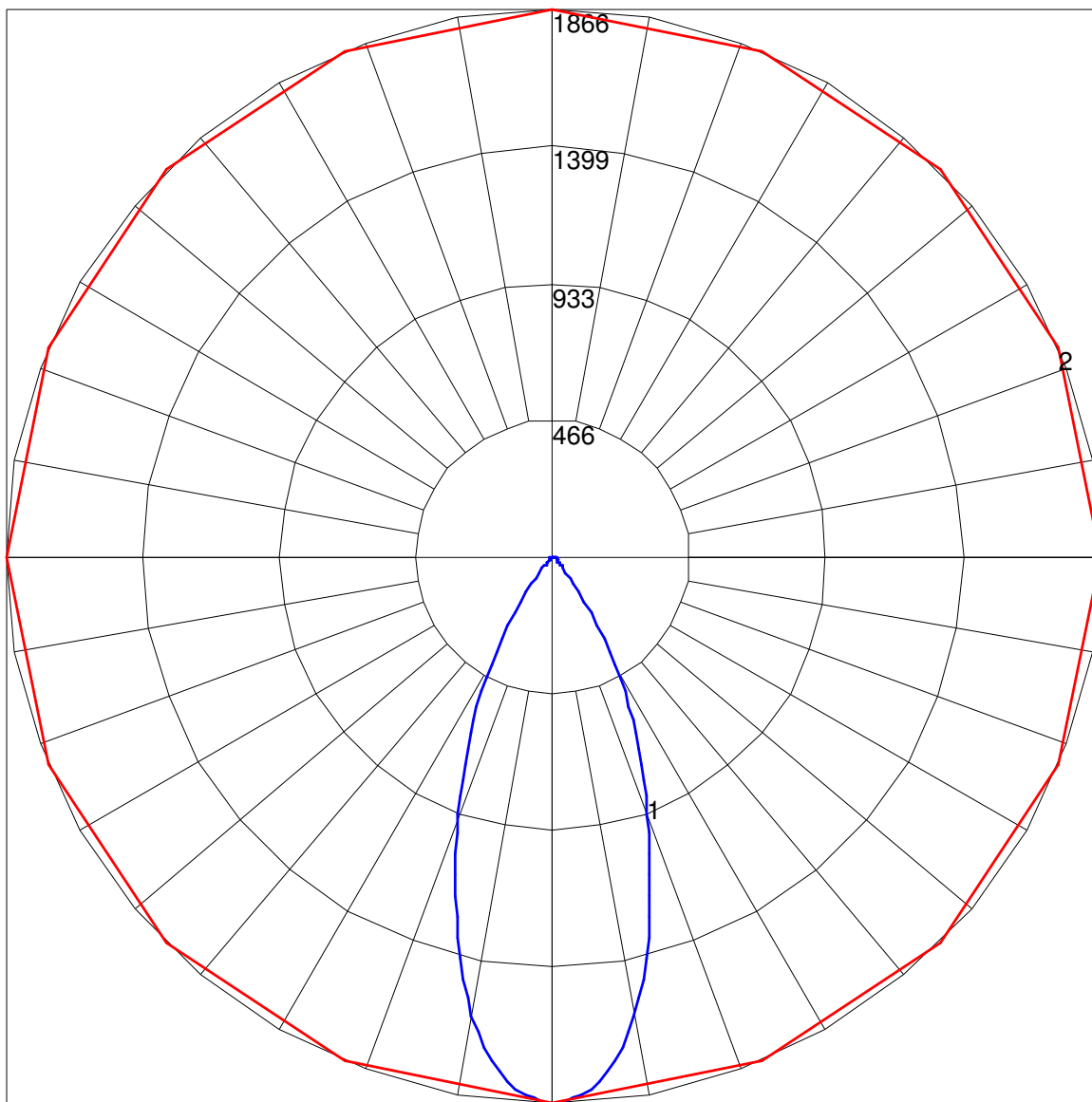
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

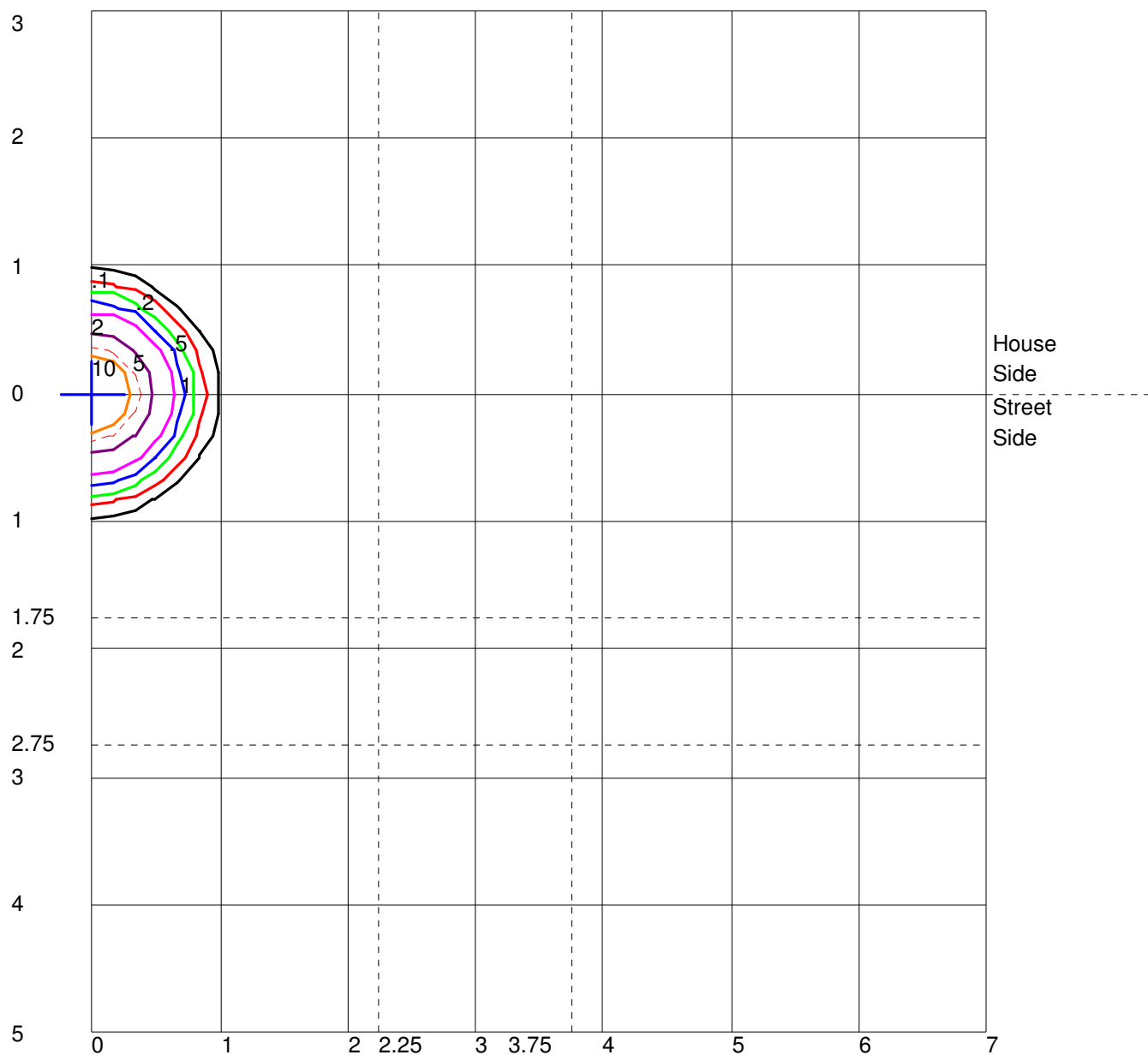
	Lumens	Percent Of Luminaire
Downward Street Side	490.1	50.0
Downward House Side	490.1	50.0
Downward Total	980.2	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	980.4	100.0

POLAR GRAPH



Maximum Candela = 1865.566 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



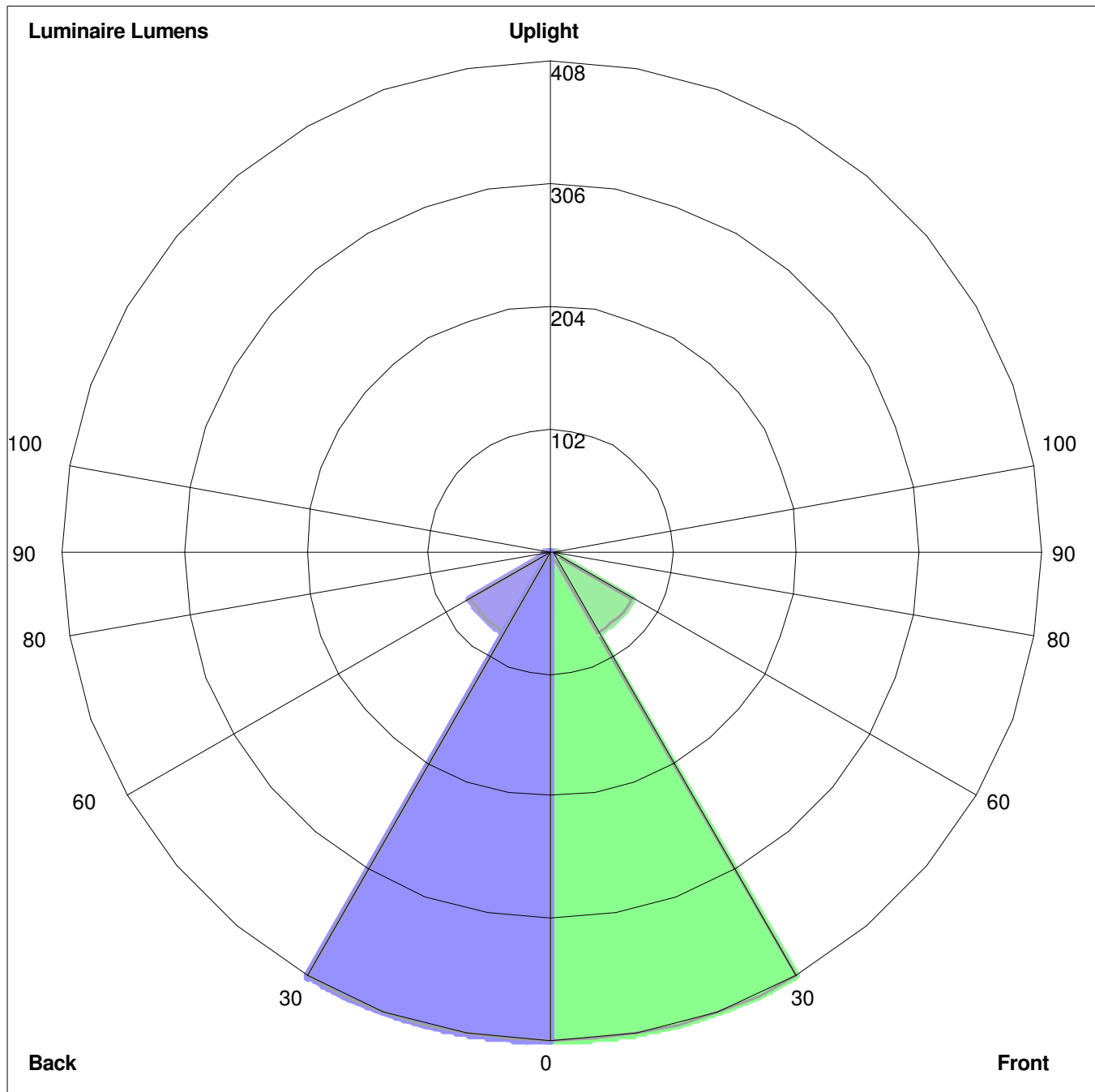
Distance In Units Of Mounting Height

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=407.8, Medium=77.7, High=4.4, Very High=0.2
Back: Low=407.8, Medium=77.7, High=4.4, Very High=0.2
Uplight: Low=0.1, High=0.0

BUG Rating : B1-U1-G0