

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L10-840-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-L10-840-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	1053
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	9.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2004.491
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	2004.491
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.149 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	.701 (0.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L10-840-XXX-DIM-UNV-M-XXX_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	438.2	N.A.	41.6
FM - Front-Medium (30-60)	83.5	N.A.	7.9
FH - Front-High (60-80)	4.7	N.A.	0.4
FVH - Front-Very High (80-90)	0.2	N.A.	0.0
BL - Back-Low (0-30)	438.2	N.A.	41.6
BM - Back-Medium (30-60)	83.5	N.A.	7.9
BH - Back-High (60-80)	4.7	N.A.	0.4
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	1053.4	N.A.	100.0
BUG Rating	B1-U1-G0		

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L10-840-XXX-DIM-UNV-M-XXX_.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	2004.491	2004.491	2004.491	2004.491	2004.491
1	2001.399	2001.873	2000.541	2000.086	2000.266
2	1992.981	1995.787	1993.670	1992.943	1990.455
3	1978.343	1979.890	1977.685	1978.251	1977.436
4	1957.998	1962.197	1958.389	1958.599	1957.814
5	1937.385	1935.620	1932.650	1931.969	1930.755
6	1905.281	1906.203	1902.303	1900.155	1899.860
7	1870.015	1868.824	1866.975	1863.052	1859.848
8	1825.225	1827.211	1822.492	1818.511	1817.492
9	1774.226	1775.975	1773.189	1770.226	1768.859
10	1716.900	1717.696	1716.398	1715.307	1712.536
11	1654.923	1654.716	1653.924	1652.067	1649.862
12	1586.549	1588.168	1583.743	1584.704	1585.102
13	1515.217	1515.332	1510.956	1515.558	1516.790
14	1438.947	1440.784	1439.169	1443.134	1444.577
15	1360.720	1362.898	1362.362	1367.790	1369.184
16	1284.174	1285.238	1285.246	1291.328	1295.543
17	1209.091	1210.308	1210.828	1215.820	1220.980
18	1132.238	1135.791	1136.549	1141.586	1148.377
19	1062.150	1063.298	1066.598	1071.521	1076.562
20	992.490	996.422	998.906	1003.725	1010.171
21	928.014	930.804	934.544	938.996	944.910
22	867.093	870.397	872.931	878.615	883.936
23	809.442	811.363	814.272	820.386	826.074
24	755.308	756.192	759.840	765.582	769.058
25	702.866	704.026	708.129	713.500	716.042
26	651.630	654.478	658.153	662.957	664.993
27	601.324	603.223	609.397	614.094	613.853
28	550.854	552.955	560.029	562.980	562.858
29	499.893	504.877	508.525	511.587	511.656
30	447.888	451.746	456.156	459.069	458.300
31	395.496	398.145	401.647	404.131	403.611
32	343.375	345.798	348.455	350.449	350.043
33	291.305	293.548	295.818	297.414	298.287
34	241.263	244.184	245.516	247.326	248.429
35	195.631	198.307	199.088	200.251	202.104
36	159.530	157.869	158.818	159.278	161.739
37	124.815	122.955	123.763	123.047	126.657
38	93.477	94.954	94.051	94.793	97.726
39	71.811	73.223	72.186	74.647	78.724
40	55.102	55.929	56.748	57.376	59.788
41	44.503	43.799	44.675	46.210	48.346
42	35.033	35.607	37.180	38.650	40.135
43	29.448	30.053	31.212	32.652	34.152
44	25.765	26.248	27.270	28.598	29.766
45	23.166	23.564	24.506	25.555	26.470
46	21.340	21.689	22.500	23.316	24.005
47	20.012	20.326	20.992	21.631	22.202
48	19.002	19.285	19.836	20.357	20.839
49	18.221	18.454	18.910	19.323	19.767
50	17.543	17.723	18.125	18.469	18.860
51	16.900	17.049	17.413	17.704	18.056
52	16.226	16.356	16.655	16.892	17.179

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L10-840-XXX-DIM-UNV-M-XXX_.IES****CANDELA TABULATION - (Cont.)**

53	15.511	15.629	15.874	16.054	16.291
54	14.768	14.867	15.074	15.220	15.407
55	13.999	14.090	14.266	14.374	14.527
56	13.191	13.275	13.417	13.524	13.635
57	12.368	12.429	12.540	12.647	12.735
58	11.533	11.587	11.675	11.778	11.866
59	10.703	10.745	10.814	10.913	10.994
60	9.884	9.926	9.983	10.067	10.148
61	9.114	9.156	9.183	9.267	9.336
62	8.398	8.429	8.452	8.517	8.586
63	7.736	7.763	7.774	7.828	7.889
64	7.135	7.154	7.162	7.200	7.265
65	6.599	6.615	6.607	6.641	6.710
66	6.090	6.113	6.094	6.132	6.193
67	5.646	5.661	5.642	5.673	5.726
68	5.237	5.240	5.221	5.244	5.298
69	4.854	4.846	4.831	4.838	4.892
70	4.490	4.471	4.452	4.456	4.498
71	4.134	4.111	4.084	4.077	4.119
72	3.782	3.763	3.725	3.709	3.755
73	3.430	3.407	3.365	3.342	3.395
74	3.066	3.043	2.993	2.970	3.020
75	2.672	2.660	2.603	2.584	2.626
76	2.224	2.216	2.159	2.155	2.186
77	1.726	1.719	1.654	1.650	1.677
78	1.152	1.152	1.095	1.064	1.083
79	0.773	0.785	0.762	0.758	0.754
80	0.701	0.697	0.693	0.685	0.685
81	0.655	0.655	0.651	0.647	0.647
82	0.616	0.612	0.616	0.612	0.612
83	0.574	0.570	0.574	0.570	0.574
84	0.528	0.524	0.528	0.524	0.528
85	0.475	0.475	0.475	0.475	0.475
86	0.413	0.413	0.417	0.413	0.417
87	0.352	0.348	0.352	0.345	0.345
88	0.276	0.276	0.276	0.272	0.276
89	0.199	0.195	0.199	0.191	0.191
90	0.149	0.145	0.145	0.134	0.126
91	0.138	0.138	0.138	0.126	0.126
92	0.138	0.138	0.138	0.126	0.126
93	0.142	0.138	0.138	0.130	0.126
94	0.142	0.138	0.142	0.130	0.130
95	0.142	0.138	0.142	0.130	0.134
96	0.142	0.138	0.142	0.134	0.134
97	0.145	0.138	0.142	0.134	0.134
98	0.145	0.142	0.142	0.134	0.138
99	0.149	0.145	0.145	0.138	0.142
100	0.149	0.149	0.145	0.142	0.142
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

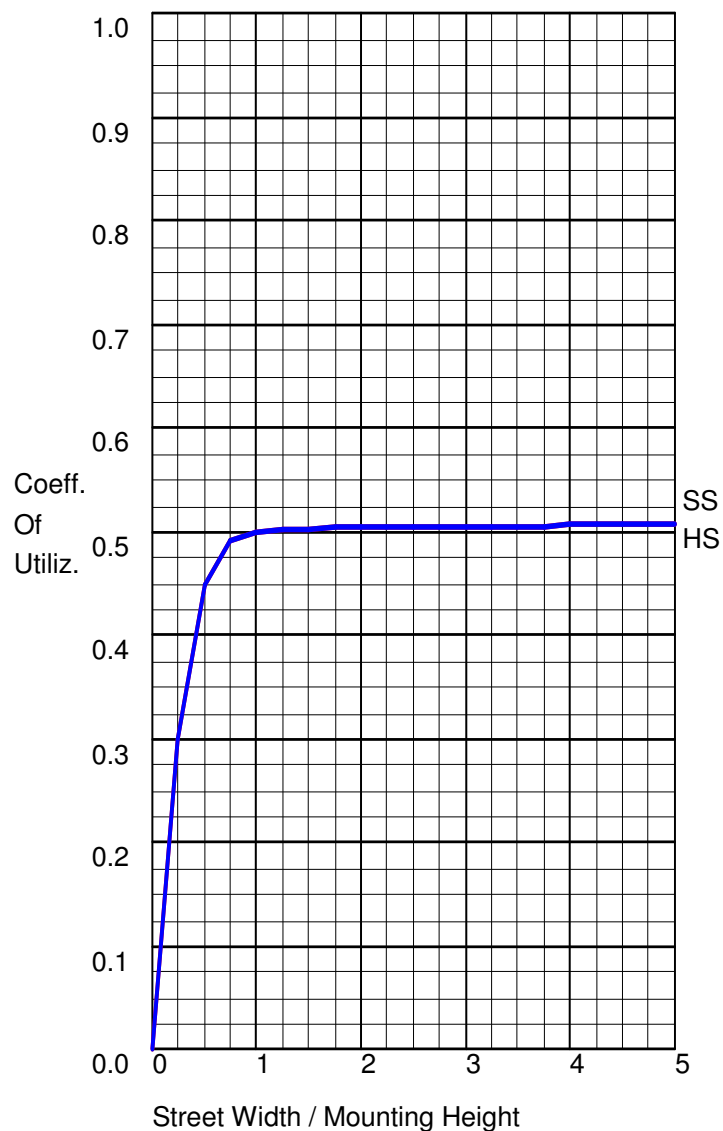
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L10-840-XXX-DIM-UNV-M-XXX_.IES****CANDELA TABULATION - (Cont.)**

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-L10-840-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

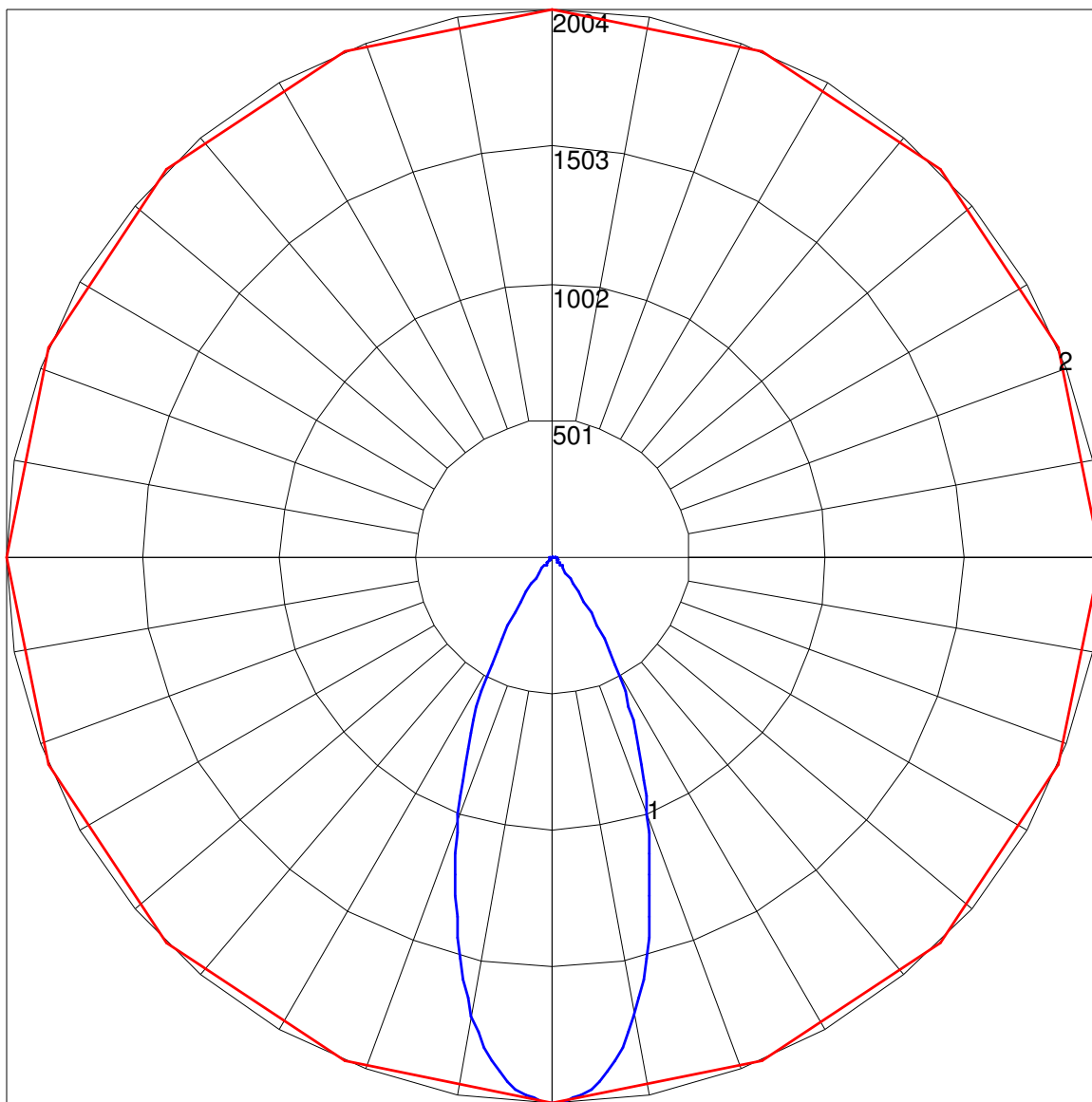
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

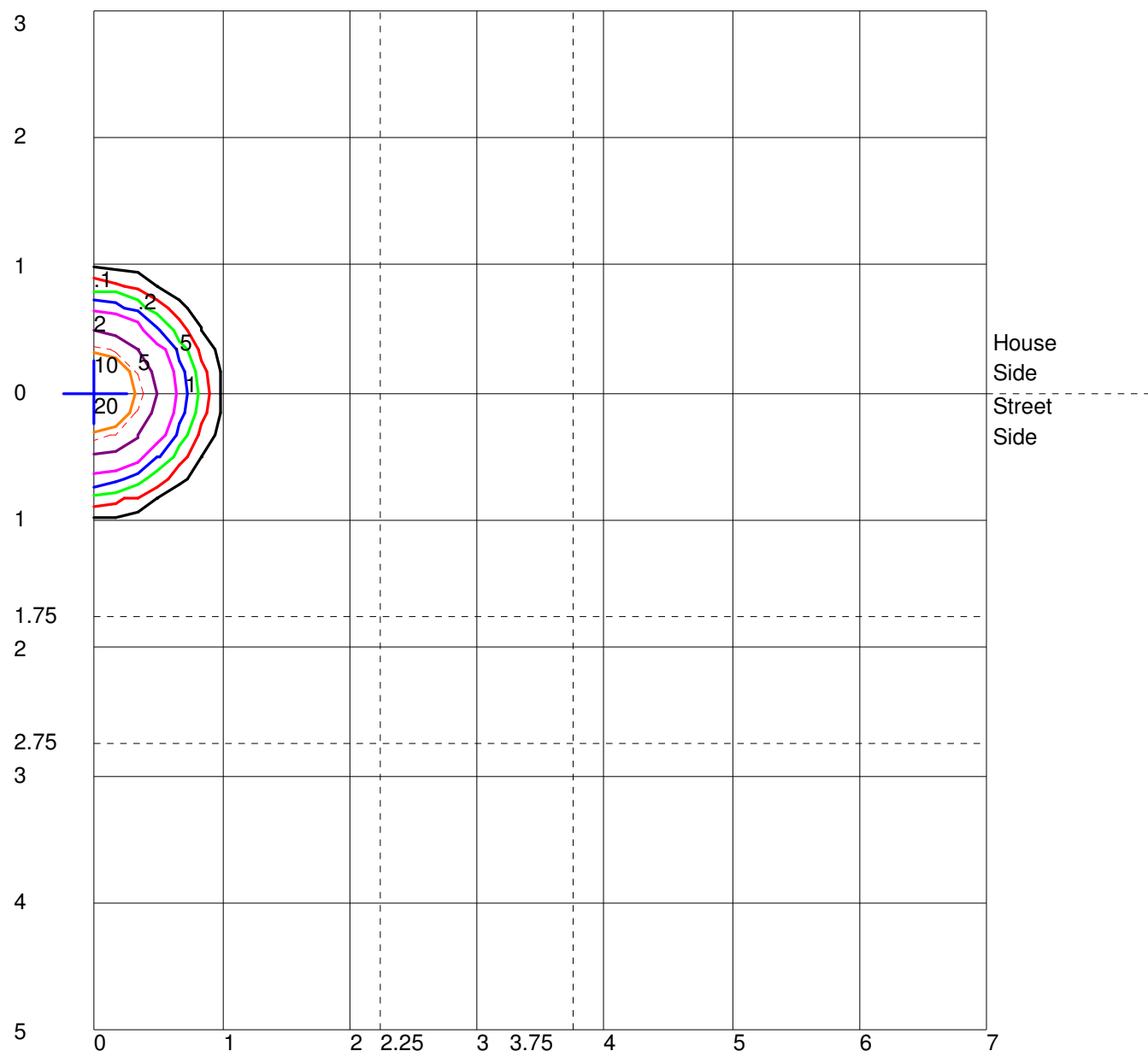
	Lumens	Percent Of Luminaire
Downward Street Side	526.6	50.0
Downward House Side	526.6	50.0
Downward Total	1053.2	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	1053.4	100.0

POLAR GRAPH



Maximum Candela = 2004.491 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



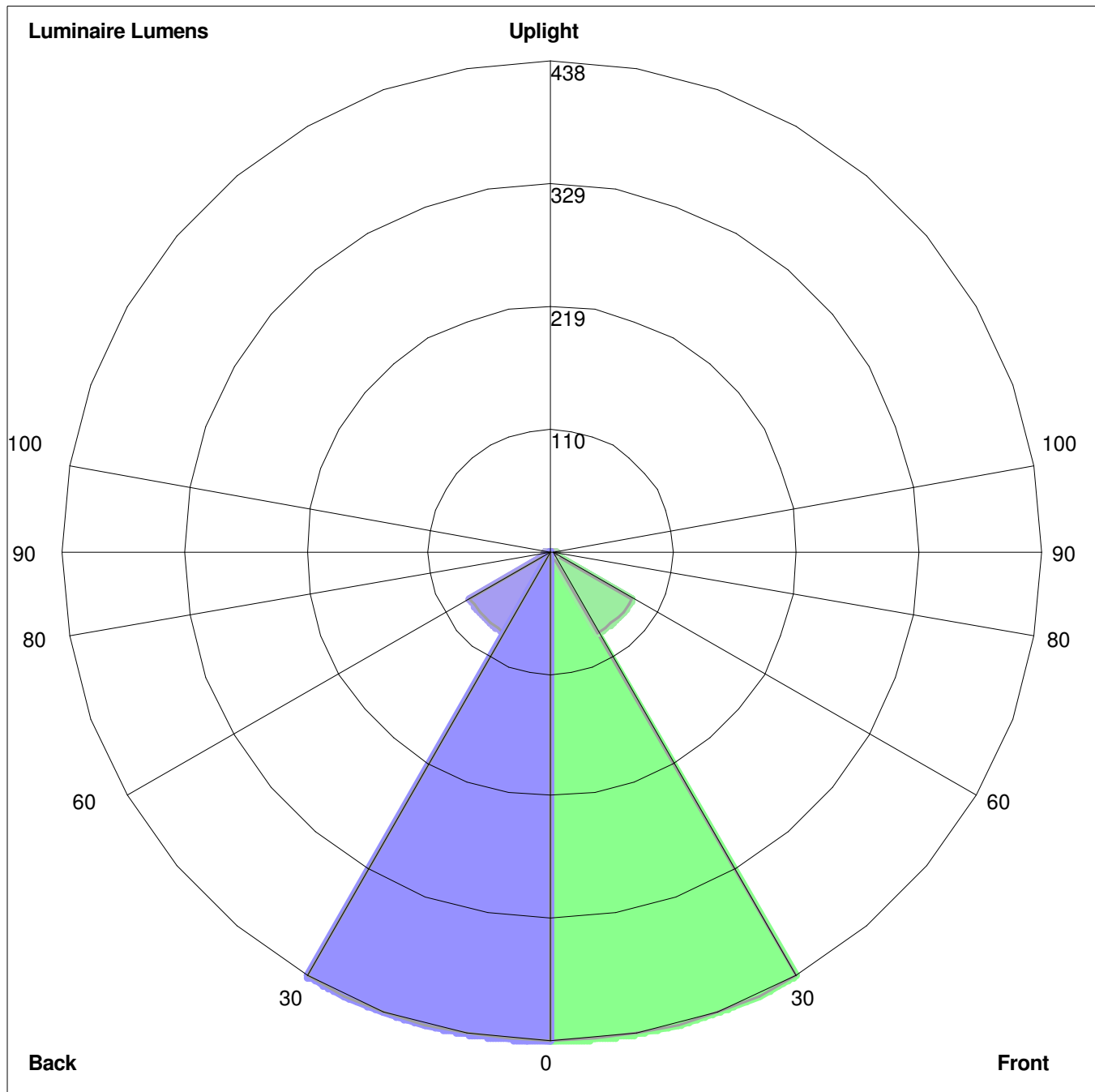
Distance In Units Of Mounting Height

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=438.2, Medium=83.5, High=4.7, Very High=0.2
Back: Low=438.2, Medium=83.5, High=4.7, Very High=0.2
Uplight: Low=0.2, High=0.0

BUG Rating : B1-U1-G0