

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L25-950-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-L25-950-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	2419
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	23.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	4602.359
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	4602.359
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.343 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1.608 (0.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L25-950-XXX-DIM-UNV-M-XXX_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1006.1	N.A.	41.6
FM - Front-Medium (30-60)	191.8	N.A.	7.9
FH - Front-High (60-80)	10.8	N.A.	0.4
FVH - Front-Very High (80-90)	0.6	N.A.	0.0
BL - Back-Low (0-30)	1006.1	N.A.	41.6
BM - Back-Medium (30-60)	191.8	N.A.	7.9
BH - Back-High (60-80)	10.8	N.A.	0.4
BVH - Back-Very High (80-90)	0.6	N.A.	0.0
UL - Uplight-Low (90-100)	0.3	N.A.	0.0
UH - Uplight-High (100-180)	< 0.05	N.A.	0.0
Total	2418.9	N.A.	100.0
BUG Rating	B3-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	4602.359	4602.359	4602.359	4602.359	4602.359
1	4595.257	4596.347	4593.289	4592.243	4592.656
2	4575.931	4582.373	4577.513	4575.843	4570.130
3	4542.322	4545.873	4540.810	4542.111	4540.239
4	4495.609	4505.251	4496.506	4496.989	4495.187
5	4448.281	4444.229	4437.409	4435.845	4433.059
6	4374.569	4376.687	4367.731	4362.800	4362.124
7	4293.597	4290.863	4286.618	4277.610	4270.253
8	4190.758	4195.319	4184.483	4175.342	4173.005
9	4073.664	4077.680	4071.282	4064.479	4061.342
10	3942.042	3943.870	3940.890	3938.385	3932.022
11	3799.741	3799.266	3797.447	3793.184	3788.122
12	3642.754	3646.471	3636.312	3638.518	3639.432
13	3478.973	3479.237	3469.191	3479.755	3482.585
14	3303.855	3308.073	3304.364	3313.470	3316.783
15	3124.245	3129.246	3128.015	3140.478	3143.677
16	2948.494	2950.937	2950.955	2964.920	2974.597
17	2776.100	2778.895	2780.090	2791.551	2803.398
18	2599.645	2607.802	2609.542	2621.108	2636.699
19	2438.721	2441.358	2448.934	2460.236	2471.811
20	2278.781	2287.807	2293.511	2304.576	2319.377
21	2130.741	2137.148	2145.735	2155.956	2169.535
22	1990.866	1998.451	2004.269	2017.321	2029.537
23	1858.497	1862.909	1869.588	1883.624	1896.684
24	1734.204	1736.235	1744.610	1757.794	1765.774
25	1613.797	1616.460	1625.881	1638.212	1644.048
26	1496.158	1502.696	1511.134	1522.164	1526.840
27	1380.654	1385.013	1399.190	1409.974	1409.420
28	1264.773	1269.598	1285.840	1292.616	1292.335
29	1147.766	1159.209	1167.585	1174.616	1174.775
30	1028.361	1037.220	1047.345	1054.033	1052.266
31	908.067	914.149	922.191	927.895	926.700
32	788.398	793.961	800.061	804.640	803.708
33	668.843	673.993	679.205	682.870	684.874
34	553.946	560.651	563.710	567.867	570.398
35	449.173	455.317	457.110	459.782	464.035
36	366.285	362.471	364.651	365.705	371.357
37	286.579	282.308	284.162	282.519	290.806
38	214.624	218.017	215.943	217.648	224.380
39	164.879	168.122	165.741	171.392	180.752
40	126.516	128.414	130.295	131.737	137.274
41	102.180	100.562	102.575	106.099	111.004
42	80.436	81.754	85.366	88.741	92.151
43	67.613	69.002	71.665	74.969	78.414
44	59.158	60.265	62.612	65.662	68.342
45	53.190	54.104	56.266	58.675	60.775
46	48.998	49.798	51.661	53.533	55.115
47	45.948	46.669	48.198	49.666	50.976
48	43.628	44.278	45.544	46.739	47.847
49	41.835	42.371	43.417	44.366	45.386
50	40.279	40.693	41.615	42.406	43.303
51	38.803	39.146	39.981	40.649	41.457
52	37.256	37.555	38.240	38.785	39.444

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L25-950-XXX-DIM-UNV-M-XXX_.IES****CANDELA TABULATION - (Cont.)**

53	35.613	35.885	36.447	36.861	37.405
54	33.908	34.136	34.611	34.945	35.375
55	32.141	32.352	32.756	33.002	33.354
56	30.286	30.480	30.805	31.051	31.306
57	28.397	28.537	28.792	29.038	29.241
58	26.481	26.604	26.806	27.043	27.246
59	24.574	24.670	24.829	25.057	25.242
60	22.693	22.790	22.921	23.115	23.299
61	20.926	21.023	21.085	21.278	21.436
62	19.283	19.353	19.406	19.555	19.713
63	17.762	17.824	17.850	17.973	18.114
64	16.382	16.426	16.444	16.532	16.681
65	15.152	15.187	15.170	15.249	15.407
66	13.983	14.036	13.992	14.080	14.220
67	12.964	12.999	12.955	13.025	13.148
68	12.023	12.032	11.988	12.041	12.164
69	11.144	11.127	11.092	11.109	11.232
70	10.309	10.265	10.221	10.230	10.327
71	9.492	9.439	9.378	9.360	9.457
72	8.683	8.639	8.552	8.516	8.622
73	7.875	7.822	7.725	7.673	7.796
74	7.040	6.987	6.873	6.820	6.934
75	6.135	6.108	5.976	5.932	6.029
76	5.106	5.089	4.957	4.948	5.018
77	3.964	3.946	3.797	3.788	3.850
78	2.645	2.645	2.514	2.443	2.487
79	1.775	1.802	1.749	1.740	1.731
80	1.608	1.600	1.591	1.573	1.573
81	1.503	1.503	1.494	1.485	1.485
82	1.415	1.406	1.415	1.406	1.406
83	1.318	1.310	1.318	1.310	1.318
84	1.213	1.204	1.213	1.204	1.213
85	1.090	1.090	1.090	1.090	1.090
86	0.949	0.949	0.958	0.949	0.958
87	0.809	0.800	0.809	0.791	0.791
88	0.633	0.633	0.633	0.624	0.633
89	0.457	0.448	0.457	0.439	0.439
90	0.343	0.334	0.334	0.308	0.290
91	0.316	0.316	0.316	0.290	0.290
92	0.316	0.316	0.316	0.290	0.290
93	0.325	0.316	0.316	0.299	0.290
94	0.325	0.316	0.325	0.299	0.299
95	0.325	0.316	0.325	0.299	0.308
96	0.325	0.316	0.325	0.308	0.308
97	0.334	0.316	0.325	0.308	0.308
98	0.334	0.325	0.325	0.308	0.316
99	0.343	0.334	0.334	0.316	0.325
100	0.343	0.343	0.334	0.325	0.325
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

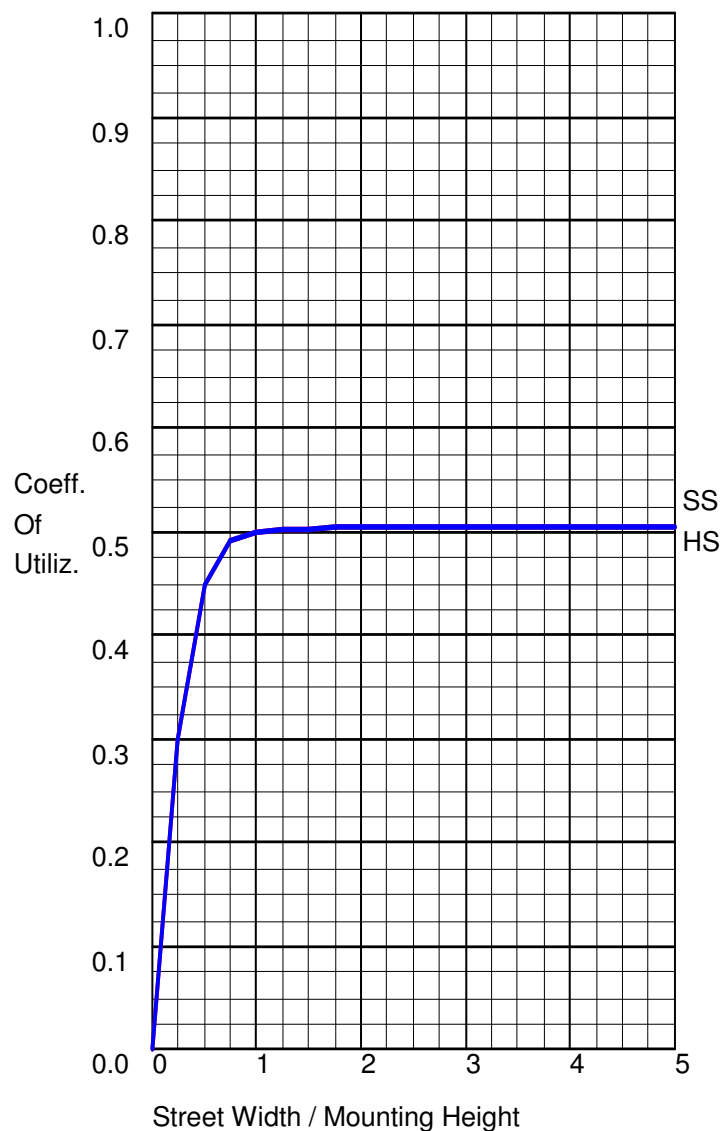
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L25-950-XXX-DIM-UNV-M-XXX_.IES****CANDELA TABULATION - (Cont.)**

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-L25-950-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

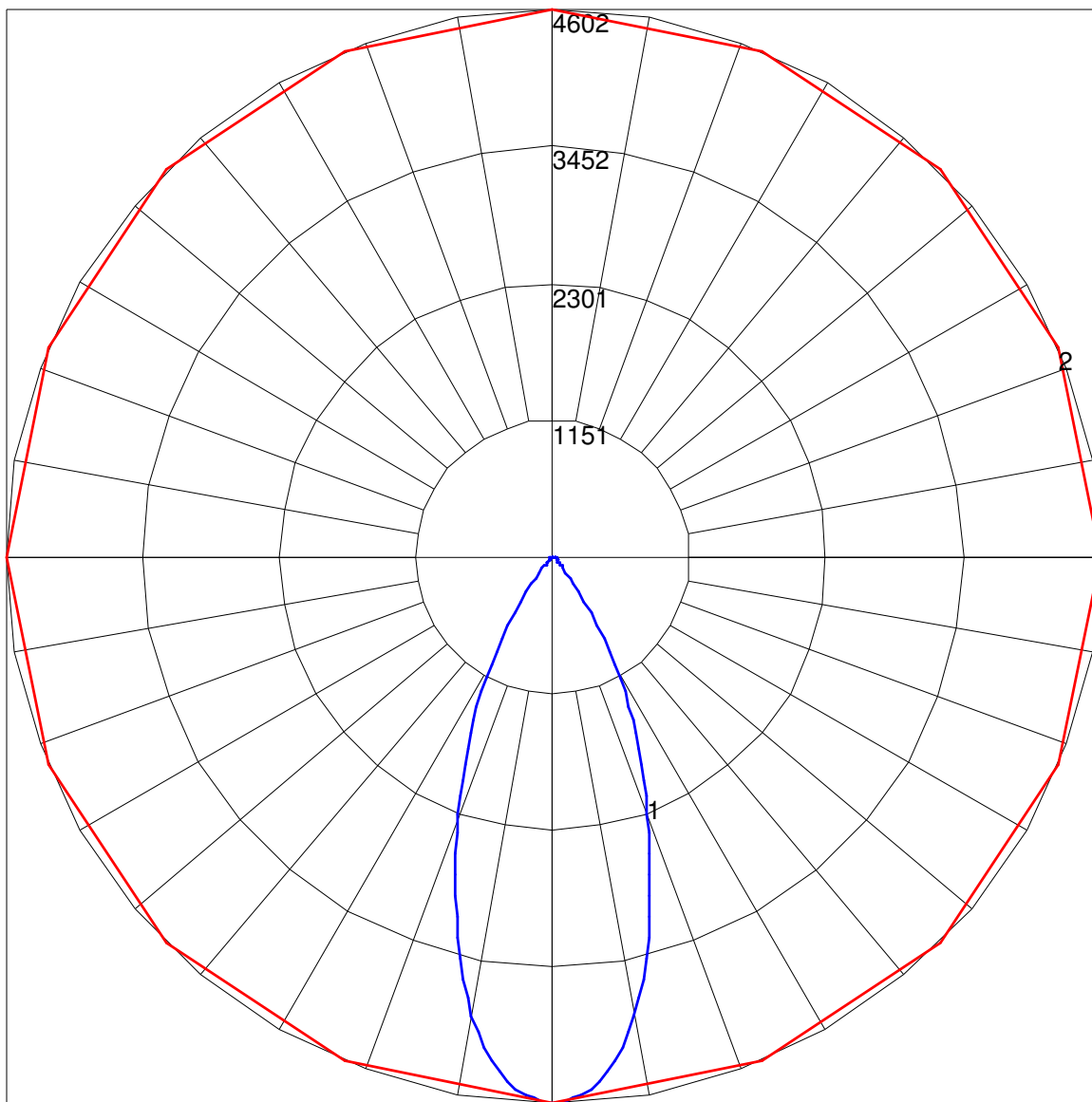
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

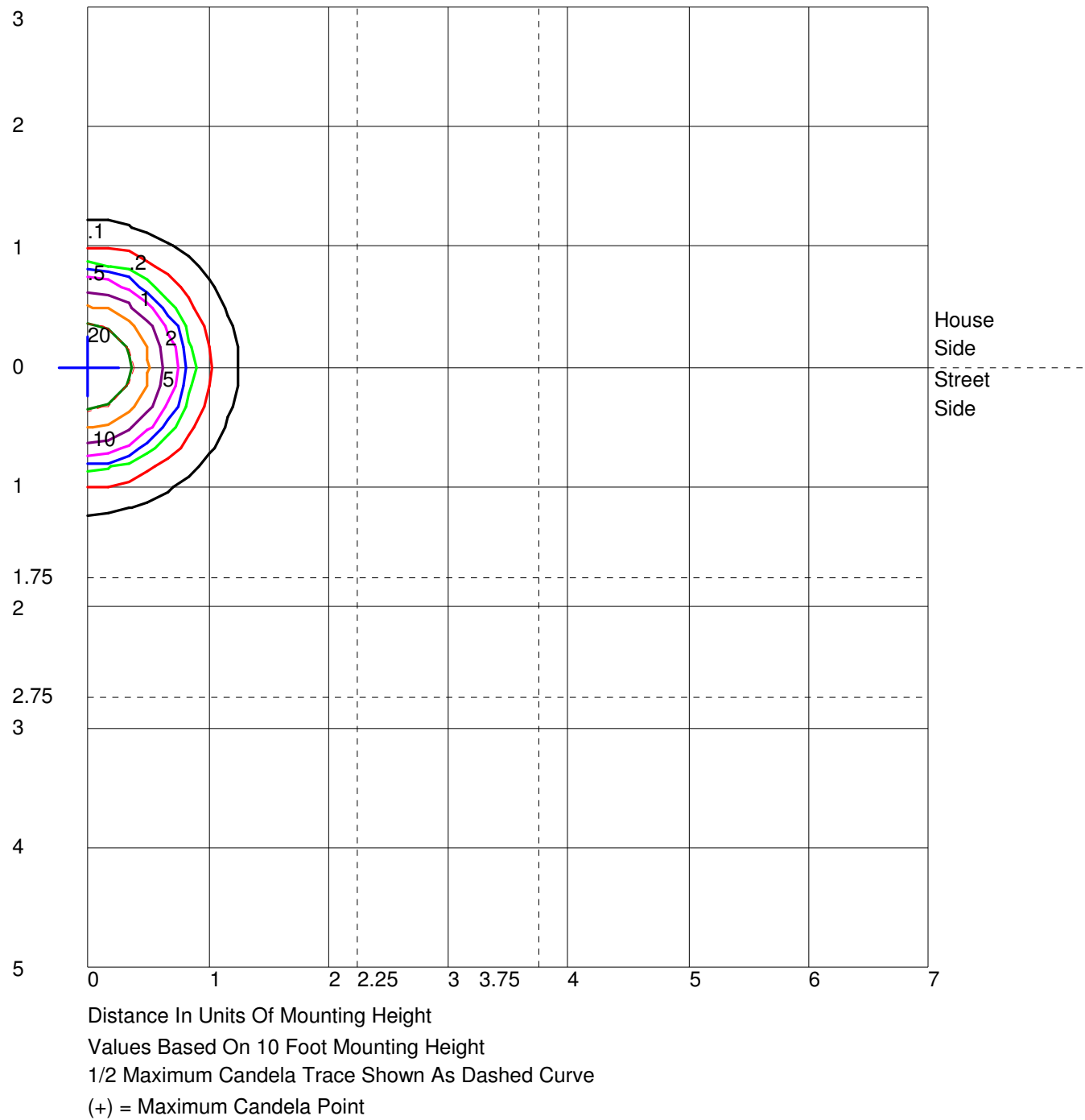
	Lumens	Percent Of Luminaire
Downward Street Side	1209.2	50.0
Downward House Side	1209.2	50.0
Downward Total	2418.4	100.0
Upward Street Side	0.2	0.0
Upward House Side	0.2	0.0
Upward Total	0.4	0.0
Total Flux	2418.8	100.0

POLAR GRAPH

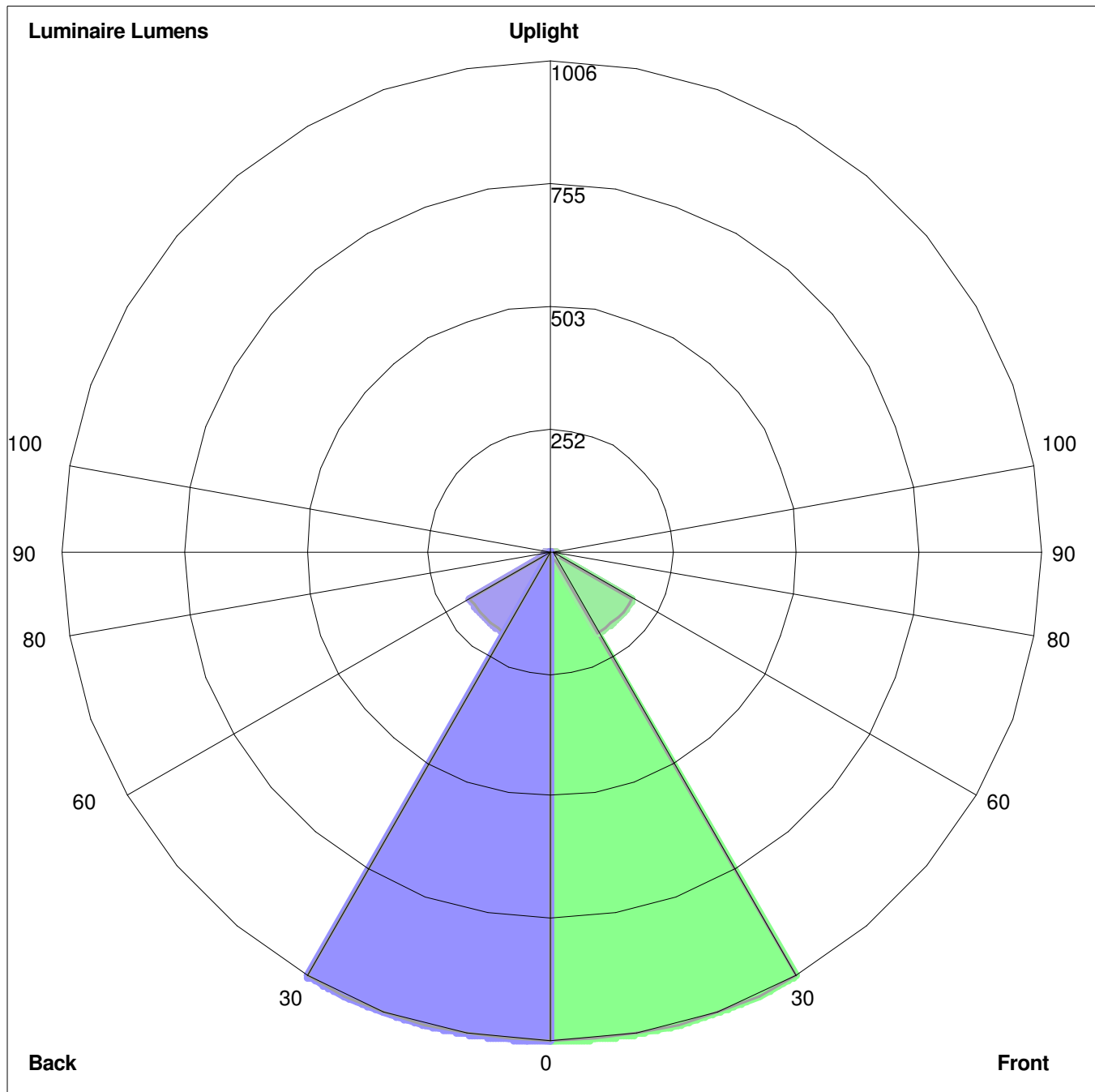


Maximum Candela = 4602.359 Located At Horizontal Angle = 90, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1006.1, Medium=191.8, High=10.8, Very High=0.6
Back: Low=1006.1, Medium=191.8, High=10.8, Very High=0.6
Uplight: Low=0.3, High=0.0

BUG Rating : B3-U1-G0