

## IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L20-850-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-L20-850-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	2066
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	18.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2604.011
Maximum Candela Angle	90H 2V
Maximum Candela (<90 Degrees Vertical)	2604.011
Maximum Candela Angle (<90 Degrees Vertical)	90H 2V
Maximum Candela At 90 Degrees Vertical	.324 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1.475 (0.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L20-850-XXX-DIM-UNV-W-XXX\_.IES\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	799.6	N.A.	38.7
FM - Front-Medium (30-60)	223.2	N.A.	10.8
FH - Front-High (60-80)	9.5	N.A.	0.5
FVH - Front-Very High (80-90)	0.5	N.A.	0.0
BL - Back-Low (0-30)	799.6	N.A.	38.7
BM - Back-Medium (30-60)	223.2	N.A.	10.8
BH - Back-High (60-80)	9.5	N.A.	0.5
BVH - Back-Very High (80-90)	0.5	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	2065.9	N.A.	100.0
BUG Rating	B2-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	2599.687	2599.687	2599.687	2599.687	2599.687
1	2595.533	2595.410	2595.819	2598.938	2601.903
2	2597.788	2597.016	2594.437	2599.502	2604.011
3	2595.348	2592.090	2594.483	2592.877	2598.452
4	2591.472	2588.855	2587.735	2590.739	2596.004
5	2587.974	2586.924	2584.585	2586.701	2589.851
6	2580.647	2582.014	2575.829	2580.578	2577.937
7	2570.317	2574.594	2569.745	2569.699	2566.780
8	2560.642	2559.762	2557.739	2558.117	2558.774
9	2548.242	2545.278	2542.869	2544.150	2543.177
10	2524.778	2525.527	2523.999	2522.485	2521.566
11	2495.887	2498.118	2495.037	2496.280	2493.184
12	2462.154	2459.922	2459.003	2462.740	2461.273
13	2418.206	2417.496	2419.542	2423.750	2423.495
14	2373.455	2369.749	2370.984	2372.706	2377.524
15	2317.679	2315.764	2312.761	2319.640	2317.046
16	2258.127	2252.537	2250.128	2255.070	2258.498
17	2191.966	2185.542	2185.959	2185.666	2193.395
18	2119.675	2116.363	2116.926	2112.533	2120.941
19	2043.430	2040.635	2040.326	2041.014	2045.816
20	1965.989	1965.672	1963.673	1964.715	1971.178
21	1891.165	1887.868	1887.004	1889.613	1891.744
22	1809.431	1812.790	1810.636	1812.805	1815.392
23	1734.298	1733.086	1732.970	1734.777	1740.931
24	1655.722	1654.240	1655.923	1659.683	1661.853
25	1576.374	1575.887	1577.339	1582.087	1582.867
26	1494.995	1495.389	1498.878	1502.739	1502.345
27	1405.501	1407.779	1415.654	1419.136	1415.646
28	1312.996	1313.490	1324.416	1328.014	1322.709
29	1213.241	1216.114	1225.749	1228.151	1224.599
30	1107.595	1109.927	1120.296	1122.682	1117.864
31	993.472	998.884	1005.555	1010.134	1008.288
32	879.333	885.394	889.710	894.945	893.424
33	763.943	767.649	773.826	778.852	778.790
34	648.546	655.124	659.409	666.628	669.029
35	541.047	548.173	550.366	557.446	561.546
36	444.326	449.623	451.800	456.710	463.930
37	357.643	361.789	363.920	368.313	376.042
38	287.915	286.610	290.903	295.497	299.604
39	224.688	228.355	229.390	233.914	239.365
40	176.671	180.339	182.956	186.739	191.688
41	139.479	142.467	145.540	152.674	159.029
42	111.969	114.154	119.304	123.134	126.516
43	93.686	94.505	97.879	102.249	104.959
44	77.380	78.901	82.136	86.861	88.397
45	66.292	67.612	70.431	73.936	75.496
46	58.008	59.089	61.528	64.277	65.319
47	51.615	52.626	54.541	56.765	57.676
48	46.789	47.607	49.082	50.935	51.900
49	42.952	43.639	44.882	46.326	47.229
50	39.817	40.396	41.462	42.643	43.376
51	37.169	37.647	38.620	39.601	40.219
52	34.690	35.130	35.957	36.775	37.269

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L20-850-XXX-DIM-UNV-W-XXX\_.IES\_.IES****CANDELA TABULATION - (Cont.)**

53	32.443	32.814	33.501	34.165	34.567
54	30.374	30.714	31.293	31.803	32.142
55	28.506	28.761	29.293	29.695	29.950
56	26.691	26.938	27.386	27.726	27.880
57	24.977	25.170	25.533	25.834	25.935
58	23.302	23.464	23.765	24.020	24.105
59	21.673	21.796	22.028	22.267	22.344
60	20.067	20.175	20.376	20.561	20.646
61	18.561	18.646	18.801	18.955	19.001
62	17.156	17.202	17.310	17.442	17.480
63	15.828	15.867	15.936	16.036	16.090
64	14.600	14.631	14.678	14.762	14.817
65	13.496	13.527	13.535	13.597	13.682
66	12.462	12.493	12.485	12.539	12.593
67	11.527	11.551	11.527	11.566	11.612
68	10.663	10.670	10.655	10.655	10.709
69	9.852	9.844	9.821	9.806	9.844
70	9.080	9.064	9.018	8.987	9.018
71	8.331	8.300	8.238	8.192	8.207
72	7.590	7.559	7.489	7.420	7.451
73	6.872	6.818	6.725	6.655	6.694
74	6.130	6.069	5.976	5.899	5.945
75	5.335	5.289	5.188	5.134	5.165
76	4.463	4.424	4.316	4.293	4.308
77	3.474	3.459	3.351	3.335	3.351
78	2.347	2.347	2.262	2.216	2.231
79	1.629	1.645	1.606	1.598	1.575
80	1.475	1.467	1.459	1.452	1.444
81	1.374	1.374	1.374	1.367	1.367
82	1.297	1.289	1.297	1.289	1.289
83	1.204	1.204	1.212	1.204	1.204
84	1.112	1.104	1.120	1.104	1.104
85	1.004	0.996	1.004	0.996	0.996
86	0.880	0.880	0.880	0.872	0.872
87	0.741	0.733	0.741	0.733	0.726
88	0.587	0.579	0.587	0.579	0.571
89	0.425	0.417	0.417	0.401	0.401
90	0.324	0.309	0.309	0.286	0.270
91	0.301	0.286	0.293	0.278	0.270
92	0.301	0.286	0.293	0.270	0.270
93	0.301	0.293	0.293	0.278	0.270
94	0.301	0.293	0.293	0.278	0.278
95	0.309	0.293	0.293	0.278	0.278
96	0.309	0.293	0.293	0.278	0.278
97	0.309	0.301	0.301	0.286	0.286
98	0.309	0.301	0.309	0.286	0.293
99	0.317	0.309	0.309	0.293	0.293
100	0.317	0.309	0.317	0.293	0.301
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

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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

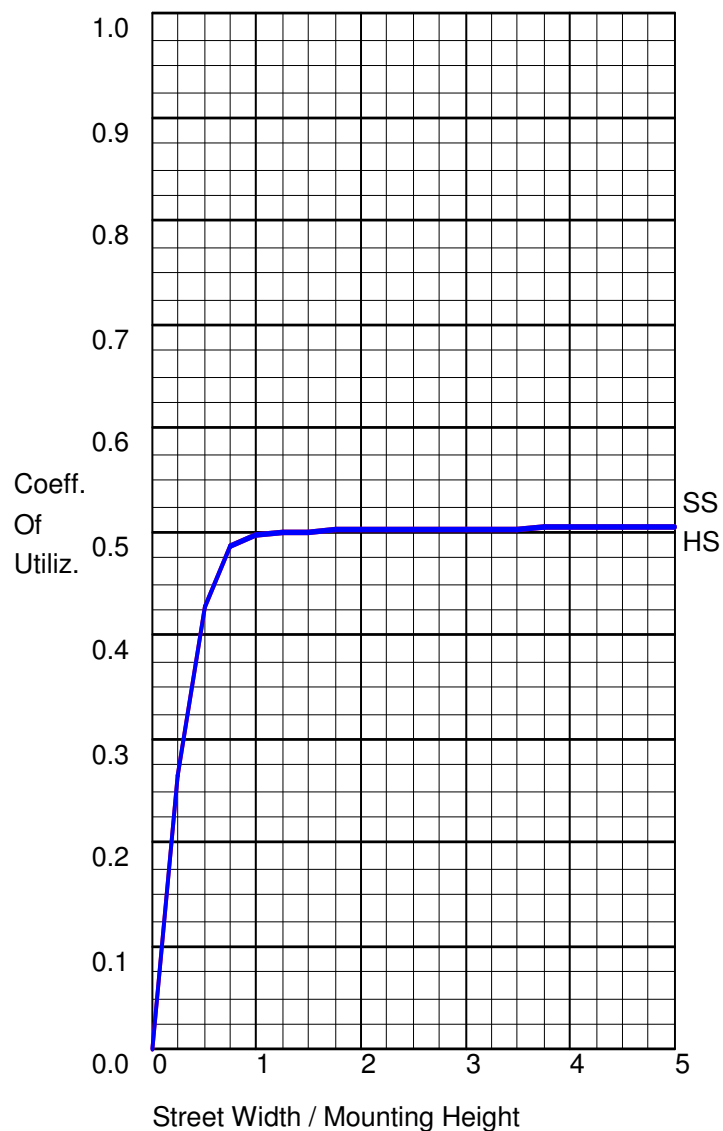
**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L20-850-XXX-DIM-UNV-W-XXX\_.IES\_.IES****CANDELA TABULATION - (Cont.)**

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

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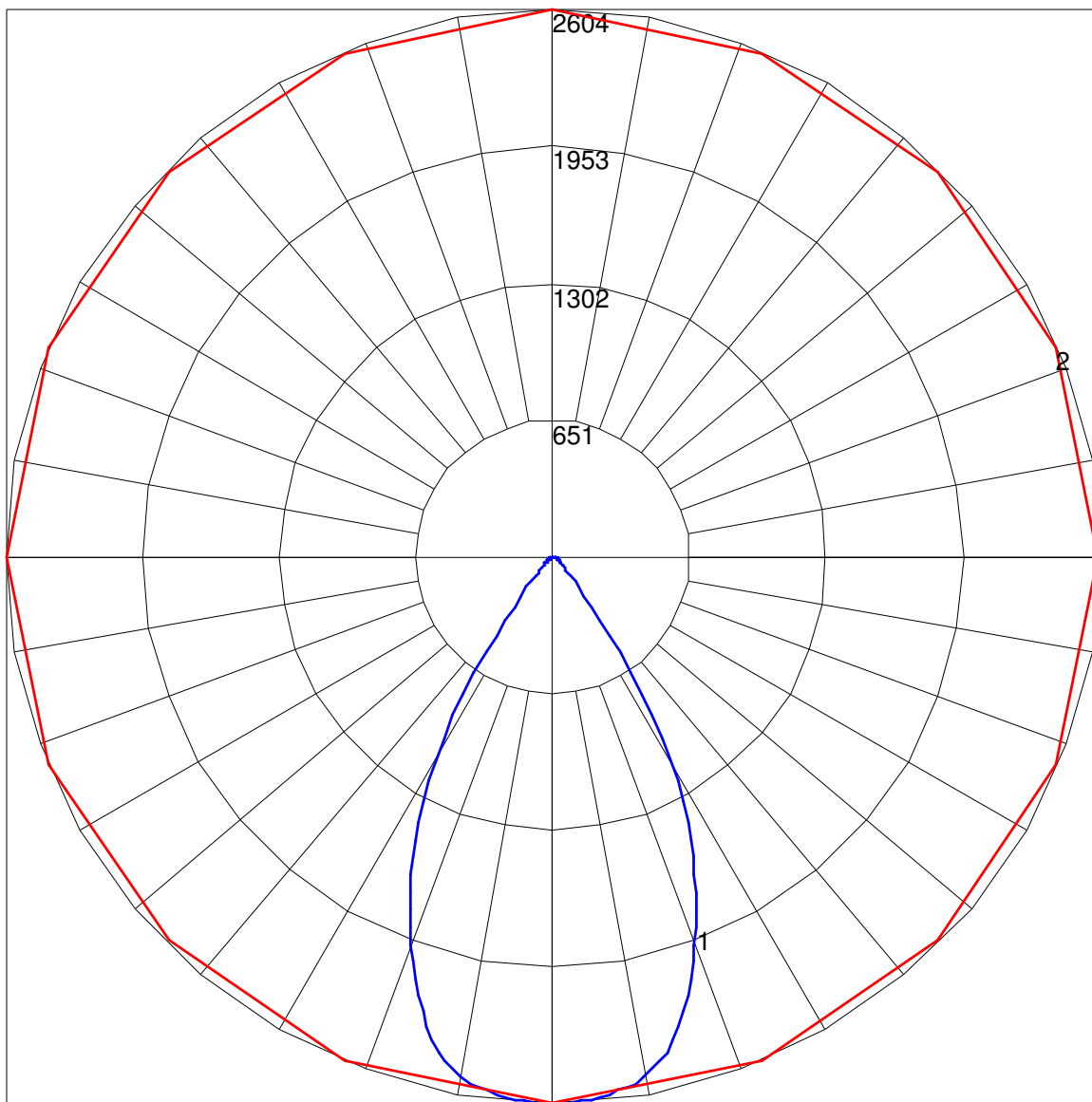
### COEFFICIENTS OF UTILIZATION



### FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	1032.8	50.0
Downward House Side	1032.8	50.0
Downward Total	2065.6	100.0
Upward Street Side	0.2	0.0
Upward House Side	0.2	0.0
Upward Total	0.4	0.0
Total Flux	2066.0	100.0

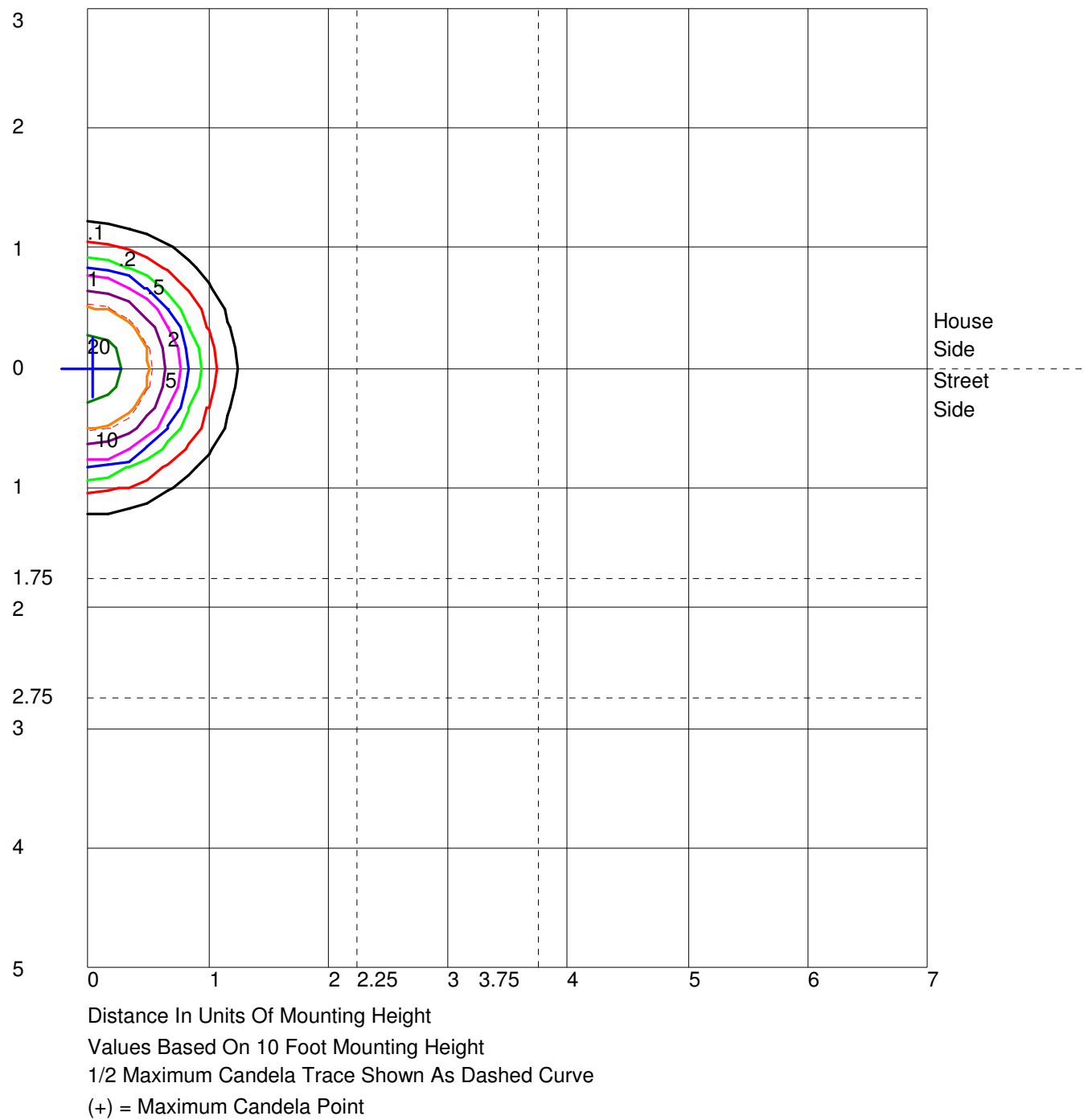
POLAR GRAPH



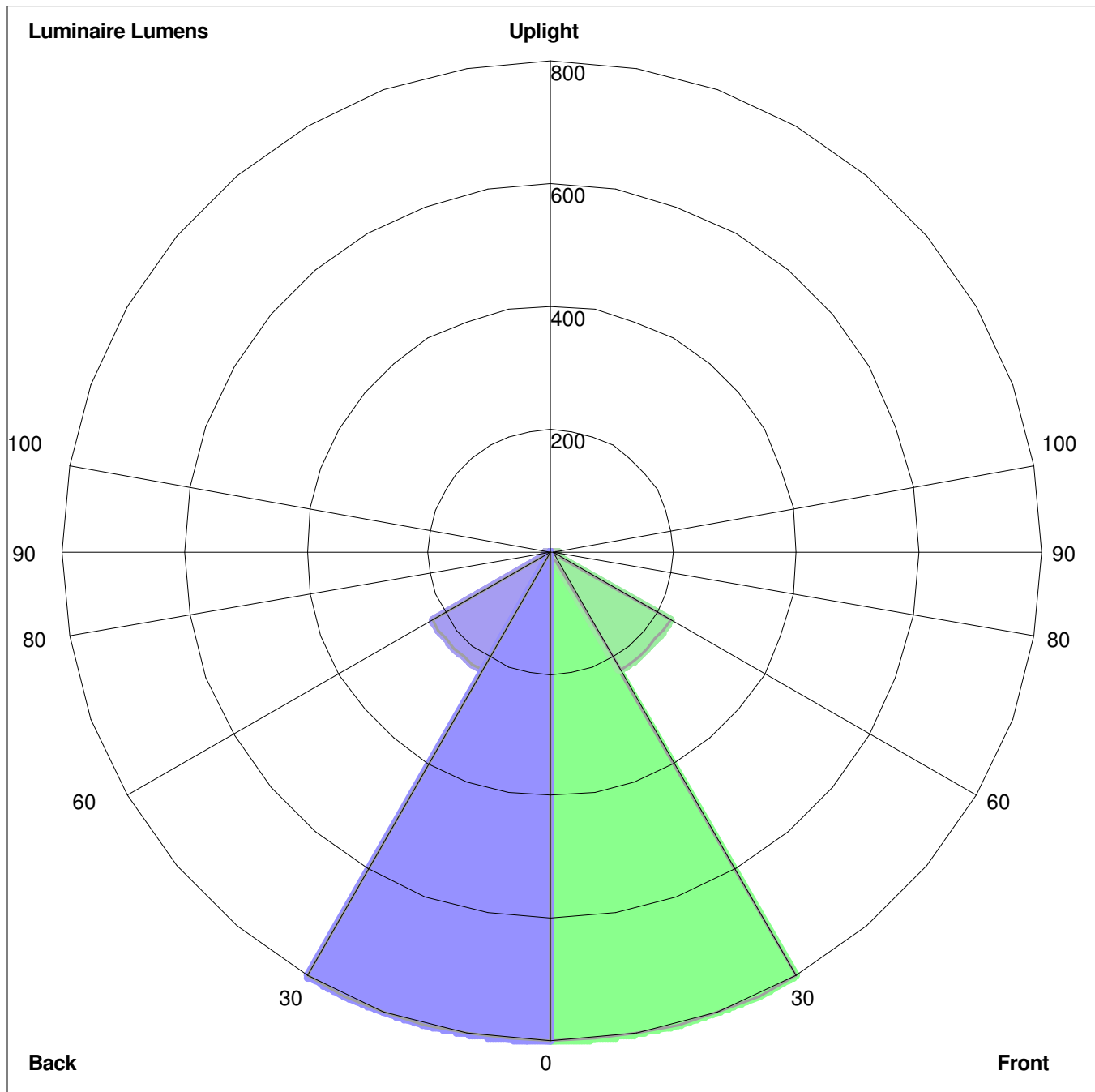
Maximum Candela = 2604.011 Located At Horizontal Angle = 90, Vertical Angle = 2  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2) (Through Max. Cd.)



ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=799.6, Medium=223.2, High=9.5, Very High=0.5  
Back: Low=799.6, Medium=223.2, High=9.5, Very High=0.5  
Uplight: Low=0.3, High=0.0

BUG Rating : B2-U1-G0