

## IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L20-835-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-L20-835-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	2087
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	18.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2630.314
Maximum Candela Angle	90H 2V
Maximum Candela (<90 Degrees Vertical)	2630.314
Maximum Candela Angle (<90 Degrees Vertical)	90H 2V
Maximum Candela At 90 Degrees Vertical	.328 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1.49 (0.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L20-835-XXX-DIM-UNV-W-XXX\_.IES\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	807.7	N.A.	38.7
FM - Front-Medium (30-60)	225.5	N.A.	10.8
FH - Front-High (60-80)	9.6	N.A.	0.5
FVH - Front-Very High (80-90)	0.5	N.A.	0.0
BL - Back-Low (0-30)	807.7	N.A.	38.7
BM - Back-Medium (30-60)	225.5	N.A.	10.8
BH - Back-High (60-80)	9.6	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	2086.9	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	2625.947	2625.947	2625.947	2625.947	2625.947
1	2621.751	2621.626	2622.040	2625.190	2628.185
2	2624.028	2623.248	2620.644	2625.760	2630.314
3	2621.564	2618.273	2620.690	2619.068	2624.699
4	2617.649	2615.005	2613.874	2616.908	2622.227
5	2614.116	2613.055	2610.692	2612.829	2616.011
6	2606.715	2608.095	2601.848	2606.644	2603.977
7	2596.280	2600.600	2595.703	2595.656	2592.708
8	2586.508	2585.618	2583.575	2583.957	2584.620
9	2573.982	2570.988	2568.554	2569.849	2568.866
10	2550.281	2551.038	2549.494	2547.965	2547.037
11	2521.098	2523.352	2520.240	2521.495	2518.368
12	2487.024	2484.770	2483.842	2487.617	2486.135
13	2442.632	2441.915	2443.982	2448.232	2447.975
14	2397.430	2393.686	2394.934	2396.673	2401.540
15	2341.090	2339.156	2336.122	2343.071	2340.451
16	2280.937	2275.290	2272.857	2277.848	2281.311
17	2214.108	2207.619	2208.040	2207.744	2215.550
18	2141.086	2137.740	2138.309	2133.872	2142.365
19	2064.071	2061.248	2060.936	2061.630	2066.481
20	1985.848	1985.528	1983.508	1984.561	1991.089
21	1910.268	1906.938	1906.064	1908.700	1910.853
22	1827.708	1831.101	1828.925	1831.116	1833.729
23	1751.817	1750.592	1750.475	1752.300	1758.516
24	1672.447	1670.949	1672.650	1676.448	1678.639
25	1592.297	1591.806	1593.272	1598.068	1598.856
26	1510.096	1510.494	1514.019	1517.918	1517.521
27	1419.698	1421.999	1429.954	1433.471	1429.946
28	1326.259	1326.758	1337.794	1341.428	1336.070
29	1225.496	1228.398	1238.131	1240.556	1236.969
30	1118.783	1121.139	1131.613	1134.023	1129.156
31	1003.507	1008.974	1015.712	1020.337	1018.473
32	888.215	894.337	898.697	903.985	902.448
33	771.660	775.403	781.642	786.720	786.657
34	655.097	661.741	666.070	673.362	675.787
35	546.512	553.710	555.925	563.077	567.218
36	448.814	454.164	456.364	461.324	468.616
37	361.255	365.443	367.596	372.034	379.840
38	290.823	289.505	293.841	298.482	302.631
39	226.957	230.662	231.707	236.277	241.783
40	178.456	182.160	184.804	188.626	193.625
41	140.888	143.906	147.010	154.217	160.635
42	113.100	115.308	120.509	124.378	127.794
43	94.633	95.459	98.867	103.282	106.019
44	78.161	79.698	82.965	87.738	89.290
45	66.962	68.295	71.142	74.683	76.258
46	58.594	59.685	62.150	64.926	65.979
47	52.136	53.158	55.092	57.338	58.258
48	47.262	48.088	49.578	51.450	52.425
49	43.386	44.080	45.335	46.794	47.706
50	40.219	40.804	41.880	43.074	43.815
51	37.544	38.028	39.010	40.001	40.625
52	35.041	35.485	36.320	37.146	37.646

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L20-835-XXX-DIM-UNV-W-XXX\_.IES\_.IES****CANDELA TABULATION - (Cont.)**

53	32.771	33.146	33.840	34.510	34.916
54	30.681	31.024	31.609	32.124	32.467
55	28.794	29.051	29.589	29.995	30.252
56	26.961	27.211	27.663	28.006	28.162
57	25.230	25.425	25.791	26.095	26.197
58	23.537	23.701	24.005	24.263	24.348
59	21.892	22.016	22.250	22.492	22.570
60	20.269	20.379	20.581	20.769	20.854
61	18.749	18.834	18.990	19.146	19.193
62	17.329	17.376	17.485	17.618	17.657
63	15.988	16.027	16.097	16.198	16.253
64	14.748	14.779	14.826	14.912	14.966
65	13.633	13.664	13.672	13.734	13.820
66	12.588	12.619	12.611	12.666	12.720
67	11.644	11.667	11.644	11.683	11.730
68	10.770	10.778	10.763	10.763	10.817
69	9.951	9.944	9.920	9.905	9.944
70	9.172	9.156	9.109	9.078	9.109
71	8.415	8.384	8.321	8.275	8.290
72	7.666	7.635	7.565	7.495	7.526
73	6.941	6.886	6.793	6.723	6.762
74	6.192	6.130	6.036	5.958	6.005
75	5.389	5.342	5.241	5.186	5.218
76	4.508	4.469	4.360	4.336	4.352
77	3.510	3.494	3.385	3.369	3.385
78	2.371	2.371	2.285	2.238	2.254
79	1.646	1.661	1.622	1.614	1.591
80	1.490	1.482	1.474	1.466	1.458
81	1.388	1.388	1.388	1.380	1.380
82	1.310	1.302	1.310	1.302	1.302
83	1.217	1.217	1.224	1.217	1.217
84	1.123	1.115	1.131	1.115	1.115
85	1.014	1.006	1.014	1.006	1.006
86	0.889	0.889	0.889	0.881	0.881
87	0.749	0.741	0.749	0.741	0.733
88	0.593	0.585	0.593	0.585	0.577
89	0.429	0.421	0.421	0.406	0.406
90	0.328	0.312	0.312	0.289	0.273
91	0.304	0.289	0.296	0.281	0.273
92	0.304	0.289	0.296	0.273	0.273
93	0.304	0.296	0.296	0.281	0.273
94	0.304	0.296	0.296	0.281	0.281
95	0.312	0.296	0.296	0.281	0.281
96	0.312	0.296	0.296	0.281	0.281
97	0.312	0.304	0.304	0.289	0.289
98	0.312	0.304	0.312	0.289	0.296
99	0.320	0.312	0.312	0.296	0.296
100	0.320	0.312	0.320	0.296	0.304
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

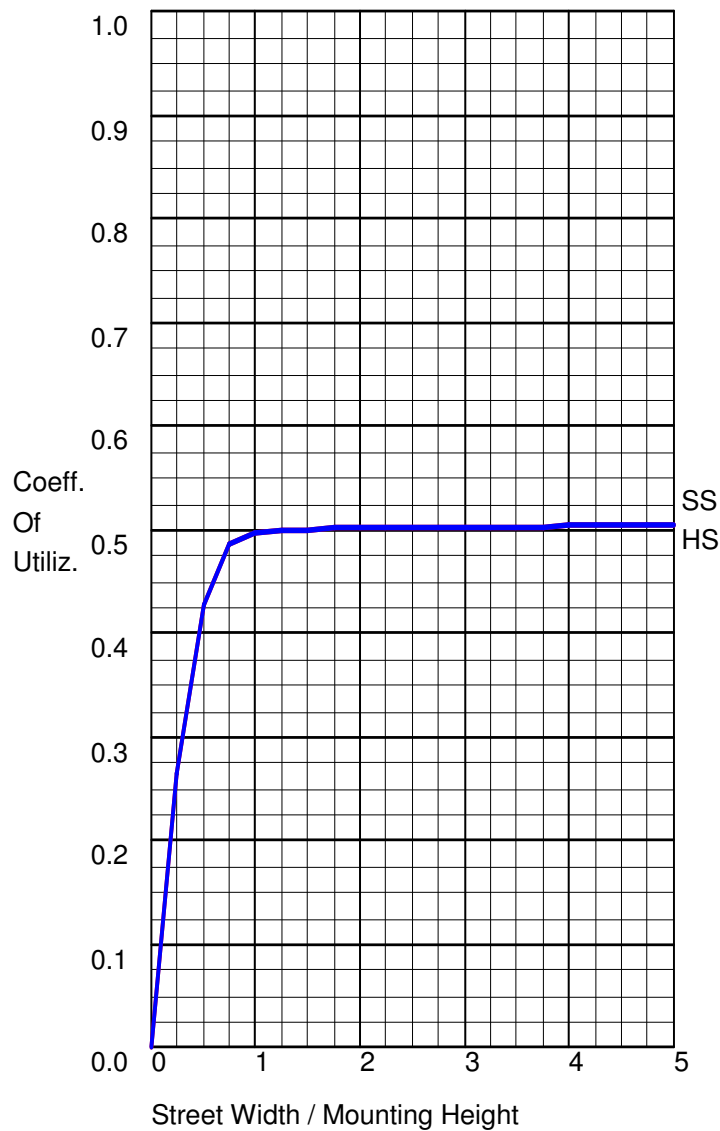
**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CR-XX-L20-835-XXX-DIM-UNV-W-XXX\_.IES\_.IES****CANDELA TABULATION - (Cont.)**

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-L20-835-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

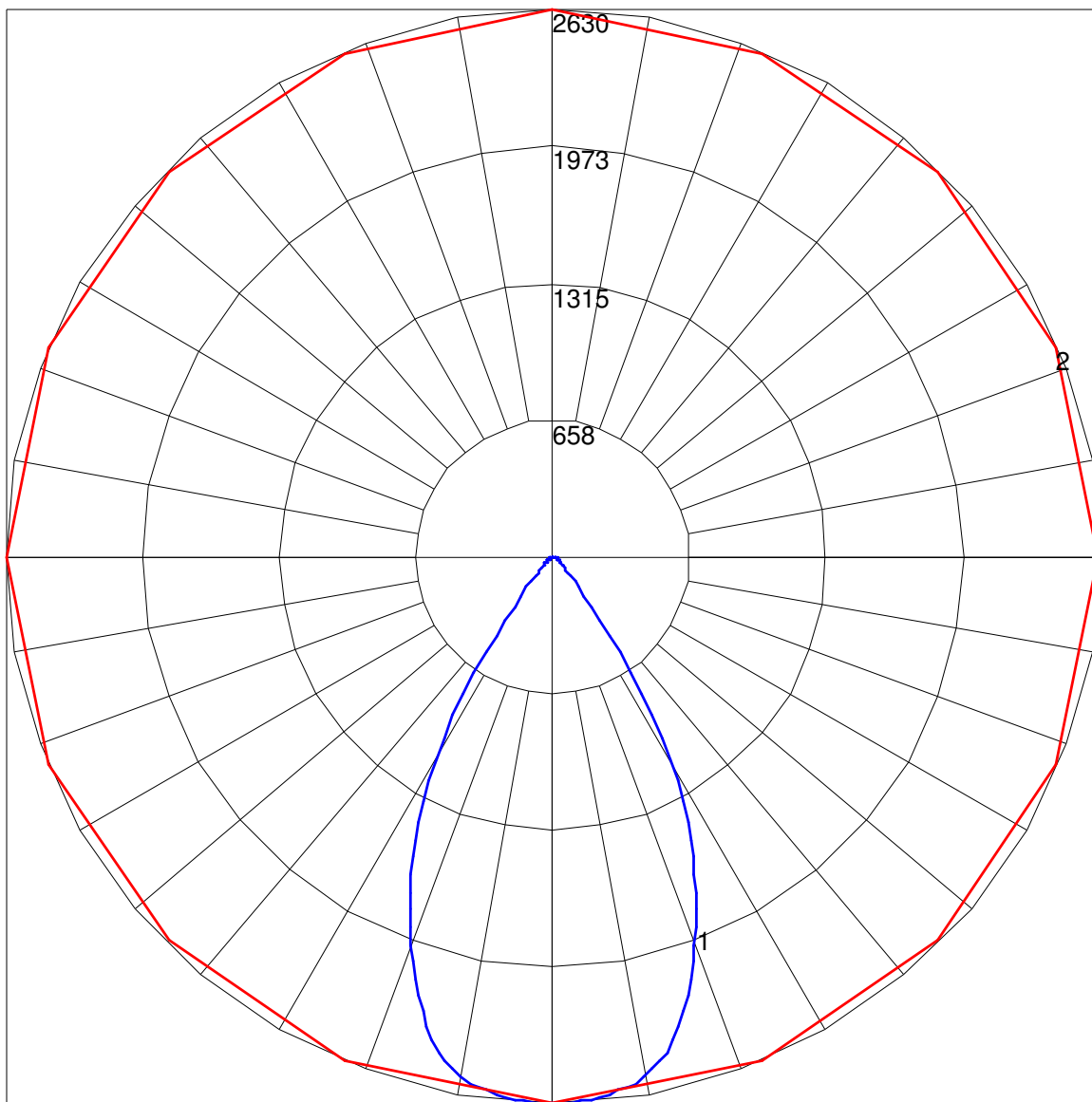
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	1043.3	50.0
Downward House Side	1043.3	50.0
Downward Total	2086.6	100.0
Upward Street Side	0.2	0.0
Upward House Side	0.2	0.0
Upward Total	0.4	0.0
Total Flux	2087.0	100.0

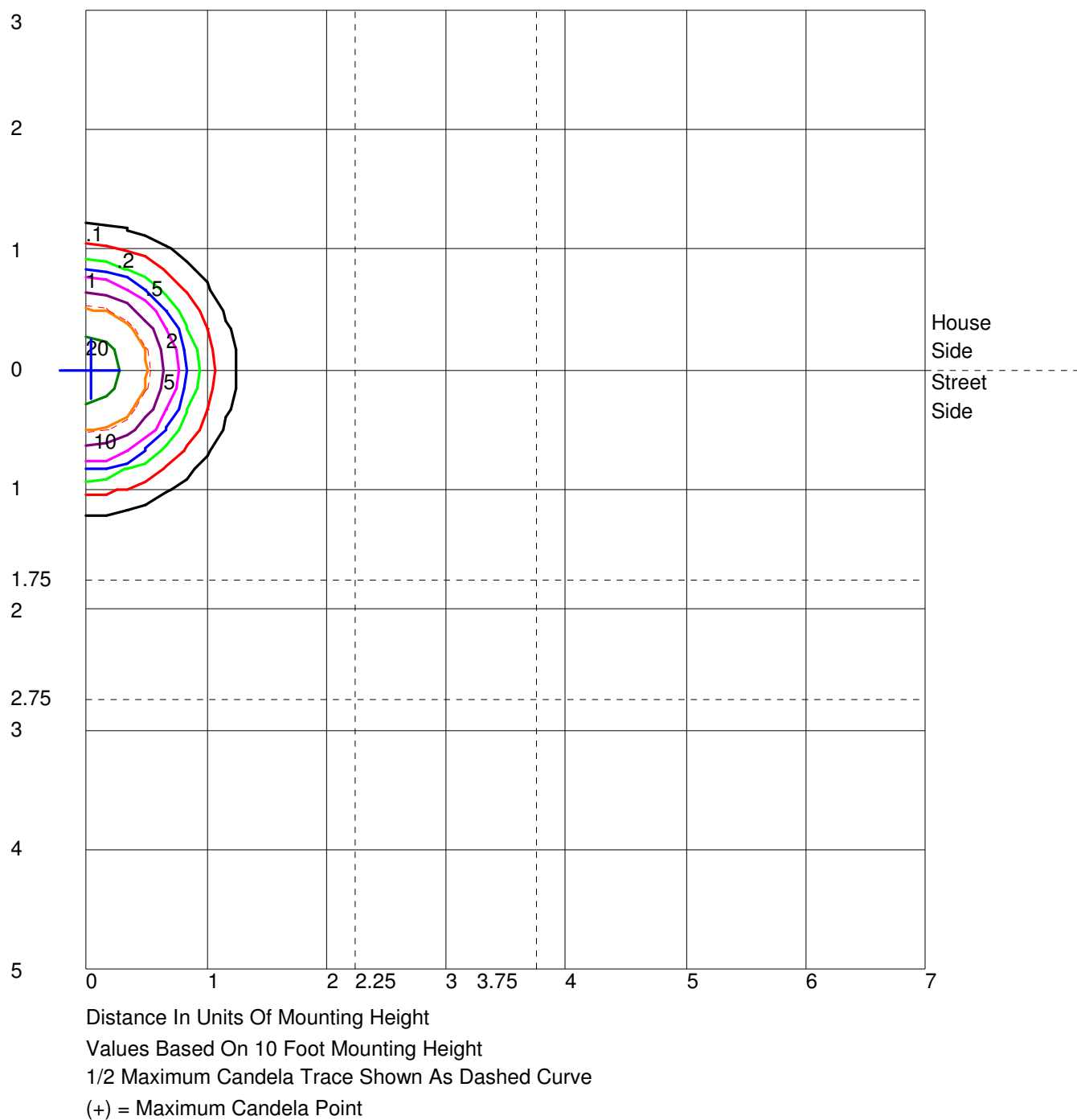
POLAR GRAPH



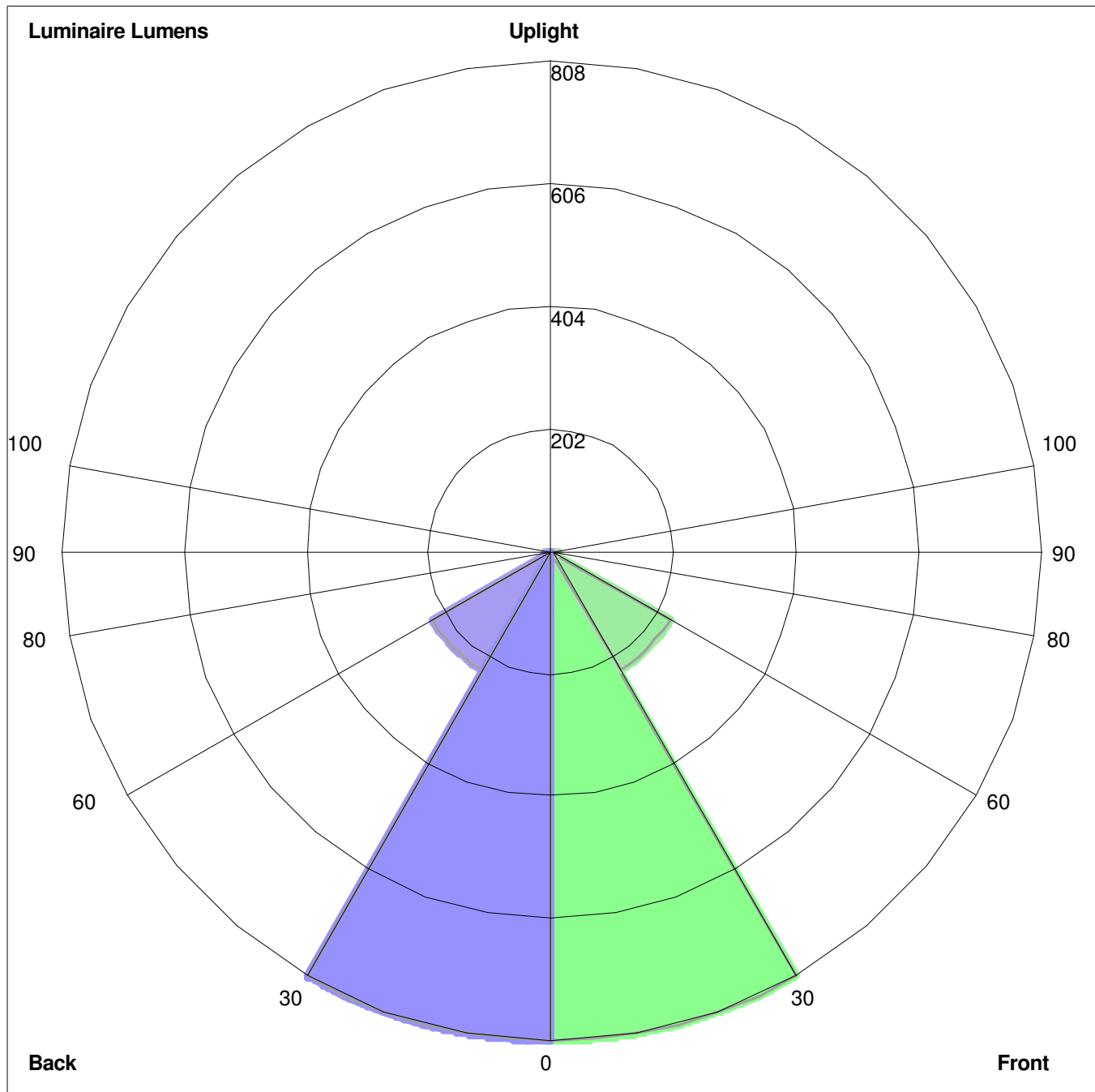
Maximum Candela = 2630.314 Located At Horizontal Angle = 90, Vertical Angle = 2  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2) (Through Max. Cd.)



ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=807.7, Medium=225.5, High=9.6, Very High=0.5  
Back: Low=807.7, Medium=225.5, High=9.6, Very High=0.5  
Uplight: Low=0.3, High=0.0

BUG Rating : B2-U1-G0