

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L20-840-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-L20-840-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	2072
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	3941.717
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	3941.717
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.294 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1.377 (0.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L20-840-XXX-DIM-UNV-M-XXX_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	861.6	N.A.	41.6
FM - Front-Medium (30-60)	164.3	N.A.	7.9
FH - Front-High (60-80)	9.2	N.A.	0.4
FVH - Front-Very High (80-90)	0.5	N.A.	0.0
BL - Back-Low (0-30)	861.6	N.A.	41.6
BM - Back-Medium (30-60)	164.3	N.A.	7.9
BH - Back-High (60-80)	9.2	N.A.	0.4
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	2071.5	N.A.	100.0
BUG Rating	B2-U1-G0		

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L20-840-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	3941.717	3941.717	3941.717	3941.717	3941.717
1	3935.635	3936.569	3933.949	3933.054	3933.407
2	3919.083	3924.600	3920.438	3919.008	3914.115
3	3890.299	3893.340	3889.004	3890.118	3888.515
4	3850.291	3858.548	3851.059	3851.473	3849.930
5	3809.757	3806.286	3800.445	3799.105	3796.719
6	3746.625	3748.439	3740.769	3736.546	3735.967
7	3677.276	3674.935	3671.300	3663.584	3657.284
8	3589.199	3593.106	3583.825	3575.997	3573.994
9	3488.913	3492.353	3486.874	3481.047	3478.360
10	3376.185	3377.750	3375.199	3373.053	3367.604
11	3254.310	3253.904	3252.346	3248.695	3244.359
12	3119.858	3123.042	3114.340	3116.230	3117.013
13	2979.587	2979.813	2971.209	2980.257	2982.681
14	2829.606	2833.219	2830.042	2837.841	2840.678
15	2675.778	2680.061	2679.007	2689.681	2692.421
16	2525.255	2527.347	2527.362	2539.323	2547.611
17	2377.607	2380.001	2381.024	2390.840	2400.987
18	2226.482	2233.467	2234.957	2244.863	2258.217
19	2088.657	2090.915	2097.404	2107.084	2116.997
20	1951.675	1959.406	1964.291	1973.768	1986.444
21	1824.886	1830.373	1837.727	1846.482	1858.111
22	1705.089	1711.585	1716.568	1727.746	1738.209
23	1591.720	1595.499	1601.220	1613.241	1624.427
24	1485.270	1487.008	1494.182	1505.473	1512.308
25	1382.146	1384.426	1392.496	1403.057	1408.055
26	1281.393	1286.993	1294.219	1303.666	1307.671
27	1182.469	1186.203	1198.344	1207.580	1207.106
28	1083.222	1087.355	1101.265	1107.068	1106.828
29	983.011	992.812	999.985	1006.007	1006.143
30	880.745	888.333	897.004	902.733	901.220
31	777.719	782.928	789.816	794.701	793.677
32	675.228	679.993	685.217	689.138	688.340
33	572.834	577.245	581.709	584.848	586.564
34	474.430	480.173	482.793	486.353	488.521
35	384.697	389.959	391.494	393.783	397.426
36	313.707	310.440	312.307	313.210	318.051
37	245.442	241.784	243.372	241.965	249.063
38	183.816	186.722	184.945	186.406	192.172
39	141.212	143.990	141.950	146.790	154.806
40	108.355	109.981	111.592	112.827	117.569
41	87.512	86.127	87.851	90.869	95.070
42	68.890	70.019	73.113	76.003	78.924
43	57.907	59.097	61.378	64.208	67.158
44	50.666	51.615	53.624	56.236	58.532
45	45.555	46.338	48.190	50.252	52.051
46	41.965	42.650	44.245	45.849	47.204
47	39.353	39.970	41.280	42.537	43.658
48	37.365	37.922	39.006	40.030	40.979
49	35.830	36.289	37.185	37.998	38.871
50	34.498	34.851	35.642	36.319	37.087
51	33.233	33.527	34.242	34.814	35.506
52	31.908	32.164	32.751	33.218	33.782

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L20-840-XXX-DIM-UNV-M-XXX_.IES****CANDELA TABULATION - (Cont.)**

53	30.501	30.734	31.216	31.569	32.036
54	29.040	29.236	29.642	29.929	30.297
55	27.527	27.708	28.054	28.265	28.566
56	25.939	26.105	26.383	26.594	26.812
57	24.321	24.441	24.659	24.870	25.043
58	22.680	22.785	22.958	23.161	23.335
59	21.046	21.129	21.265	21.460	21.618
60	19.435	19.518	19.631	19.797	19.955
61	17.922	18.005	18.058	18.224	18.359
62	16.515	16.575	16.620	16.748	16.884
63	15.213	15.265	15.288	15.393	15.514
64	14.031	14.069	14.084	14.159	14.287
65	12.977	13.007	12.992	13.060	13.195
66	11.976	12.021	11.983	12.059	12.179
67	11.103	11.133	11.095	11.155	11.261
68	10.297	10.305	10.267	10.312	10.418
69	9.545	9.530	9.499	9.514	9.620
70	8.830	8.792	8.754	8.762	8.845
71	8.129	8.084	8.032	8.017	8.099
72	7.437	7.399	7.324	7.294	7.384
73	6.744	6.699	6.616	6.571	6.677
74	6.029	5.984	5.886	5.841	5.939
75	5.254	5.231	5.119	5.081	5.164
76	4.373	4.358	4.245	4.238	4.298
77	3.395	3.380	3.252	3.244	3.297
78	2.266	2.266	2.153	2.093	2.130
79	1.521	1.543	1.498	1.490	1.483
80	1.377	1.370	1.362	1.347	1.347
81	1.287	1.287	1.280	1.272	1.272
82	1.212	1.204	1.212	1.204	1.204
83	1.129	1.122	1.129	1.122	1.129
84	1.039	1.031	1.039	1.031	1.039
85	0.933	0.933	0.933	0.933	0.933
86	0.813	0.813	0.820	0.813	0.820
87	0.693	0.685	0.693	0.677	0.677
88	0.542	0.542	0.542	0.534	0.542
89	0.391	0.384	0.391	0.376	0.376
90	0.294	0.286	0.286	0.263	0.248
91	0.271	0.271	0.271	0.248	0.248
92	0.271	0.271	0.271	0.248	0.248
93	0.279	0.271	0.271	0.256	0.248
94	0.279	0.271	0.279	0.256	0.256
95	0.279	0.271	0.279	0.256	0.263
96	0.279	0.271	0.279	0.263	0.263
97	0.286	0.271	0.279	0.263	0.263
98	0.286	0.279	0.279	0.263	0.271
99	0.294	0.286	0.286	0.271	0.279
100	0.294	0.294	0.286	0.279	0.279
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

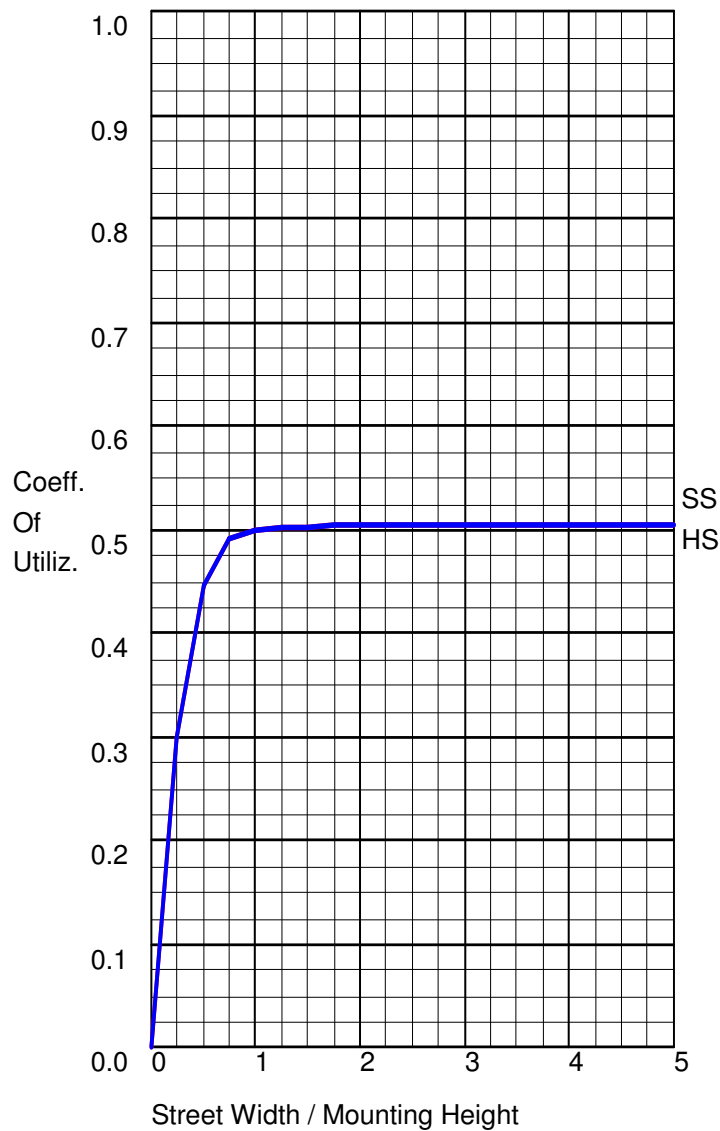
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L20-840-XXX-DIM-UNV-M-XXX_.IES****CANDELA TABULATION - (Cont.)**

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-L20-840-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

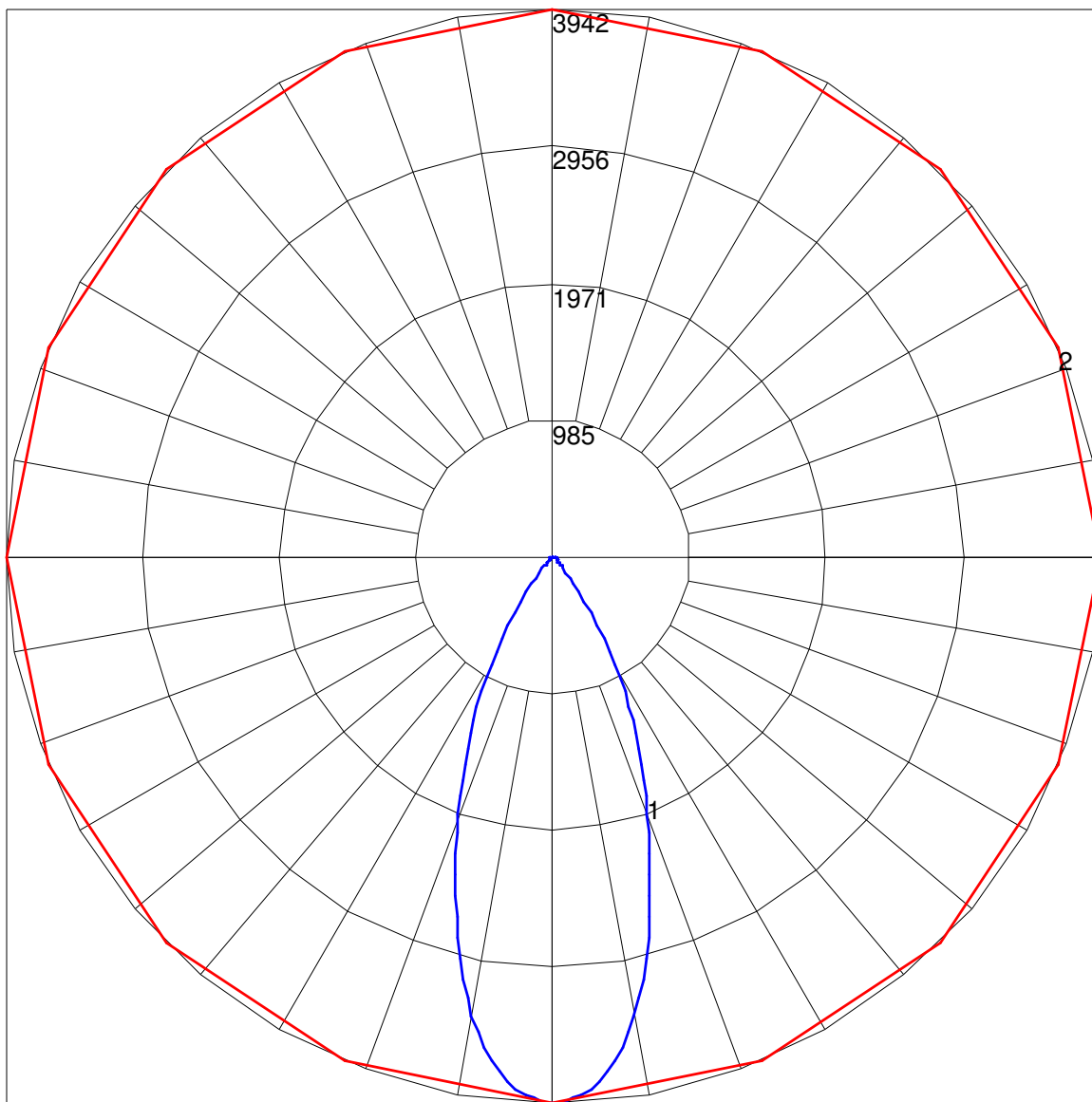
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

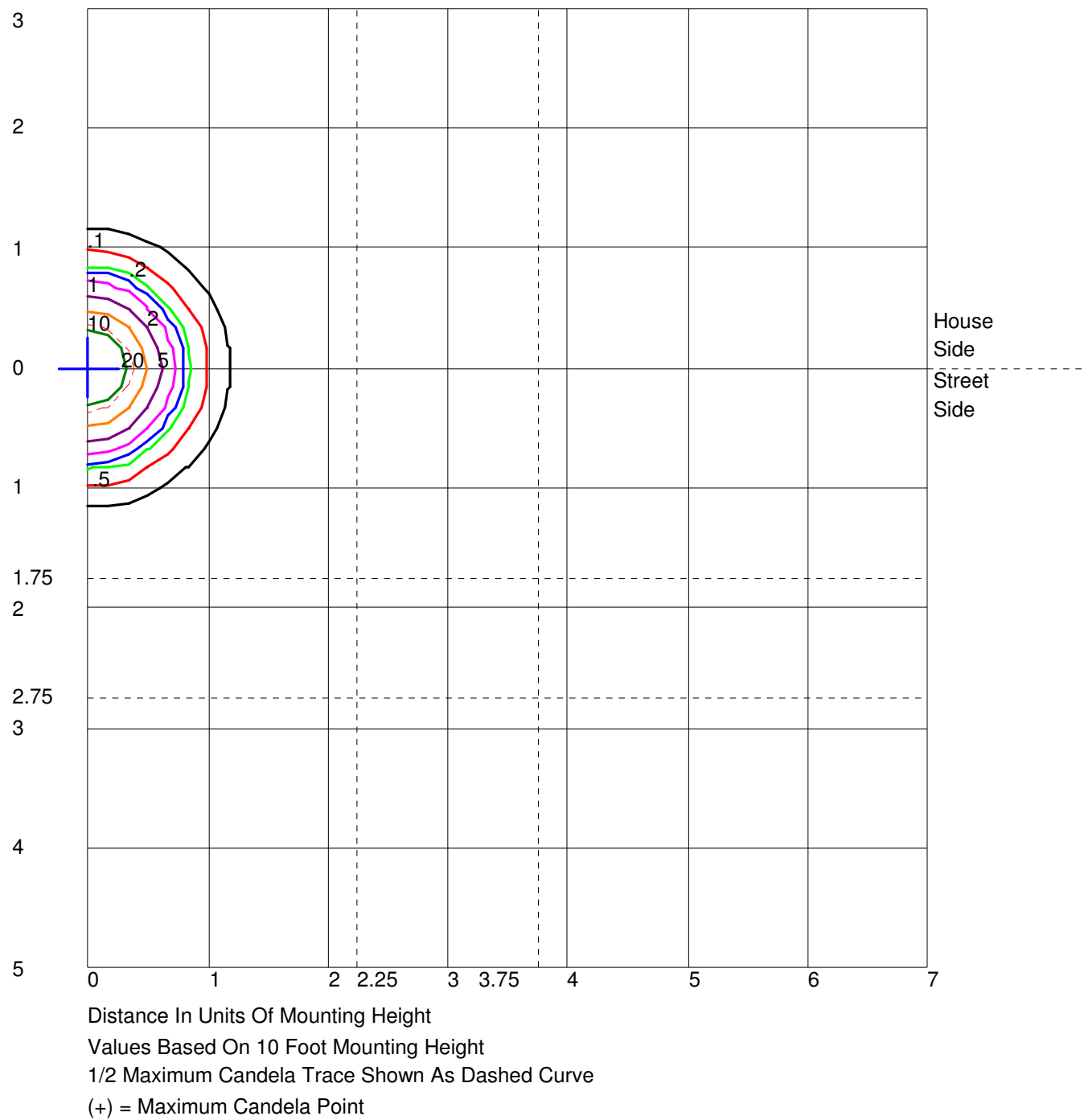
	Lumens	Percent Of Luminaire
Downward Street Side	1035.6	50.0
Downward House Side	1035.6	50.0
Downward Total	2071.2	100.0
Upward Street Side	0.2	0.0
Upward House Side	0.2	0.0
Upward Total	0.4	0.0
Total Flux	2071.6	100.0

POLAR GRAPH

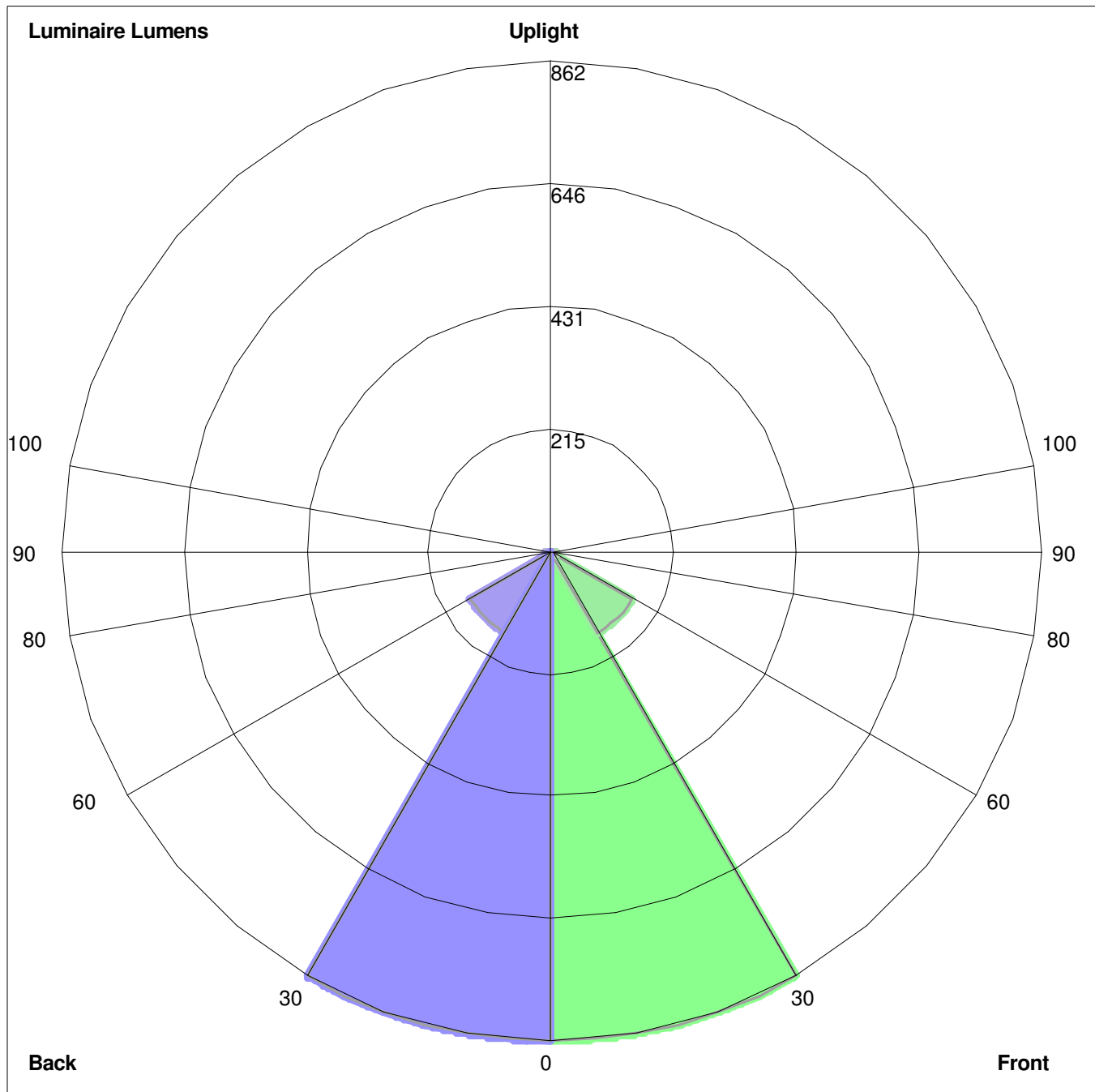


Maximum Candela = 3941.717 Located At Horizontal Angle = 90, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=861.6, Medium=164.3, High=9.2, Very High=0.5
Back: Low=861.6, Medium=164.3, High=9.2, Very High=0.5
Uplight: Low=0.3, High=0.0

BUG Rating : B2-U1-G0