

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L20-827-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-L20-827-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	2045
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	18.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2577.708
Maximum Candela Angle	90H 2V
Maximum Candela (<90 Degrees Vertical)	2577.708
Maximum Candela Angle (<90 Degrees Vertical)	90H 2V
Maximum Candela At 90 Degrees Vertical	.321 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1.46 (0.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L20-827-XXX-DIM-UNV-W-XXX_.IES_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	791.5	N.A.	38.7
FM - Front-Medium (30-60)	220.9	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)	791.5	N.A.	38.7
BM - Back-Medium (30-60)	220.9	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	2045.1	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	2573.428	2573.428	2573.428	2573.428	2573.428
1	2569.316	2569.194	2569.599	2572.686	2575.621
2	2571.548	2570.783	2568.231	2573.244	2577.708
3	2569.132	2565.907	2568.276	2566.687	2572.205
4	2565.296	2562.705	2561.597	2564.570	2569.782
5	2561.833	2560.794	2558.478	2560.572	2563.691
6	2554.580	2555.933	2549.811	2554.511	2551.898
7	2544.354	2548.588	2543.788	2543.743	2540.853
8	2534.777	2533.906	2531.904	2532.278	2532.928
9	2522.503	2519.568	2517.183	2518.452	2517.489
10	2499.276	2500.017	2498.504	2497.006	2496.096
11	2470.676	2472.885	2469.835	2471.065	2468.001
12	2437.284	2435.075	2434.165	2437.864	2436.412
13	2393.780	2393.077	2395.102	2399.267	2399.015
14	2349.481	2345.812	2347.035	2348.740	2353.509
15	2294.268	2292.373	2289.400	2296.210	2293.641
16	2235.318	2229.784	2227.400	2232.291	2235.685
17	2169.825	2163.466	2163.879	2163.589	2171.239
18	2098.264	2094.985	2095.543	2091.194	2099.518
19	2022.790	2020.023	2019.717	2020.397	2025.151
20	1946.131	1945.817	1943.838	1944.870	1951.267
21	1872.063	1868.799	1867.943	1870.526	1872.636
22	1791.154	1794.479	1792.346	1794.494	1797.054
23	1716.780	1715.580	1715.466	1717.254	1723.346
24	1638.998	1637.530	1639.196	1642.919	1645.066
25	1560.451	1559.969	1561.406	1566.107	1566.879
26	1479.894	1480.284	1483.738	1487.560	1487.170
27	1391.304	1393.559	1401.355	1404.802	1401.347
28	1299.734	1300.223	1311.038	1314.599	1309.349
29	1200.986	1203.830	1213.368	1215.745	1212.229
30	1096.408	1098.716	1108.980	1111.342	1106.573
31	983.437	988.795	995.398	999.930	998.104
32	870.451	876.450	880.723	885.905	884.399
33	756.227	759.895	766.010	770.985	770.924
34	641.995	648.506	652.748	659.894	662.271
35	535.581	542.636	544.807	551.815	555.874
36	439.838	445.081	447.236	452.097	459.243
37	354.030	358.135	360.244	364.593	372.243
38	285.007	283.715	287.964	292.512	296.578
39	222.418	226.049	227.073	231.552	236.948
40	174.887	178.517	181.108	184.853	189.752
41	138.070	141.028	144.070	151.132	157.422
42	110.838	113.001	118.099	121.890	125.238
43	92.740	93.550	96.890	101.216	103.899
44	76.598	78.104	81.306	85.983	87.504
45	65.623	66.930	69.719	73.189	74.733
46	57.422	58.492	60.907	63.628	64.660
47	51.093	52.095	53.990	56.191	57.093
48	46.316	47.127	48.586	50.421	51.376
49	42.518	43.198	44.429	45.858	46.752
50	39.415	39.988	41.043	42.212	42.938
51	36.793	37.267	38.230	39.201	39.812
52	34.340	34.776	35.593	36.403	36.893

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L20-827-XXX-DIM-UNV-W-XXX_.IES_.IES****CANDELA TABULATION - (Cont.)**

53	32.116	32.483	33.163	33.820	34.218
54	30.067	30.404	30.977	31.481	31.818
55	28.218	28.470	28.997	29.395	29.647
56	26.422	26.666	27.110	27.446	27.599
57	24.725	24.916	25.275	25.573	25.673
58	23.066	23.227	23.525	23.777	23.861
59	21.454	21.576	21.805	22.042	22.119
60	19.864	19.971	20.170	20.353	20.437
61	18.374	18.458	18.611	18.764	18.809
62	16.983	17.029	17.136	17.265	17.304
63	15.668	15.706	15.775	15.874	15.928
64	14.453	14.483	14.529	14.613	14.667
65	13.360	13.390	13.398	13.459	13.543
66	12.336	12.366	12.359	12.412	12.466
67	11.411	11.434	11.411	11.449	11.495
68	10.555	10.563	10.547	10.547	10.601
69	9.752	9.745	9.722	9.707	9.745
70	8.988	8.973	8.927	8.896	8.927
71	8.247	8.216	8.155	8.109	8.124
72	7.513	7.482	7.414	7.345	7.375
73	6.802	6.749	6.657	6.588	6.626
74	6.069	6.007	5.916	5.839	5.885
75	5.281	5.235	5.136	5.083	5.113
76	4.418	4.379	4.272	4.249	4.265
77	3.439	3.424	3.317	3.302	3.317
78	2.323	2.323	2.239	2.194	2.209
79	1.613	1.628	1.590	1.582	1.559
80	1.460	1.452	1.445	1.437	1.429
81	1.360	1.360	1.360	1.353	1.353
82	1.284	1.276	1.284	1.276	1.276
83	1.192	1.192	1.200	1.192	1.192
84	1.101	1.093	1.108	1.093	1.093
85	0.994	0.986	0.994	0.986	0.986
86	0.871	0.871	0.871	0.864	0.864
87	0.734	0.726	0.734	0.726	0.718
88	0.581	0.573	0.581	0.573	0.566
89	0.420	0.413	0.413	0.397	0.397
90	0.321	0.306	0.306	0.283	0.268
91	0.298	0.283	0.290	0.275	0.268
92	0.298	0.283	0.290	0.268	0.268
93	0.298	0.290	0.290	0.275	0.268
94	0.298	0.290	0.290	0.275	0.275
95	0.306	0.290	0.290	0.275	0.275
96	0.306	0.290	0.290	0.275	0.275
97	0.306	0.298	0.298	0.283	0.283
98	0.306	0.298	0.306	0.283	0.290
99	0.313	0.306	0.306	0.290	0.290
100	0.313	0.306	0.313	0.290	0.298
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

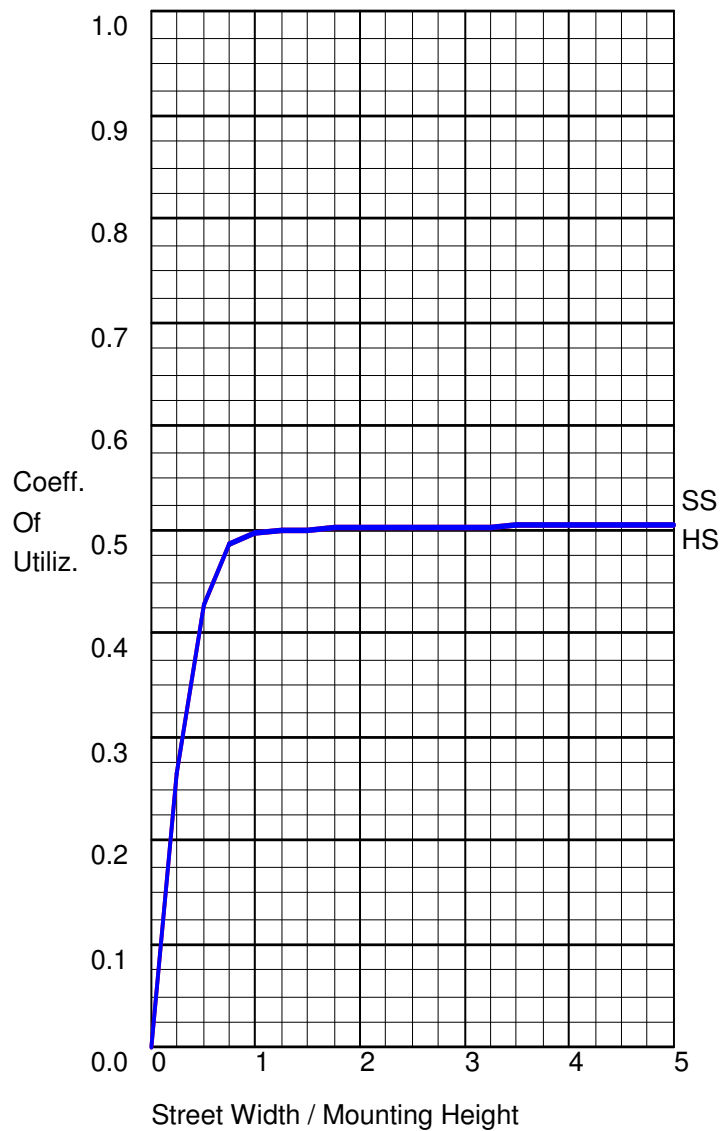
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L20-827-XXX-DIM-UNV-W-XXX_.IES_.IES****CANDELA TABULATION - (Cont.)**

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-L20-827-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

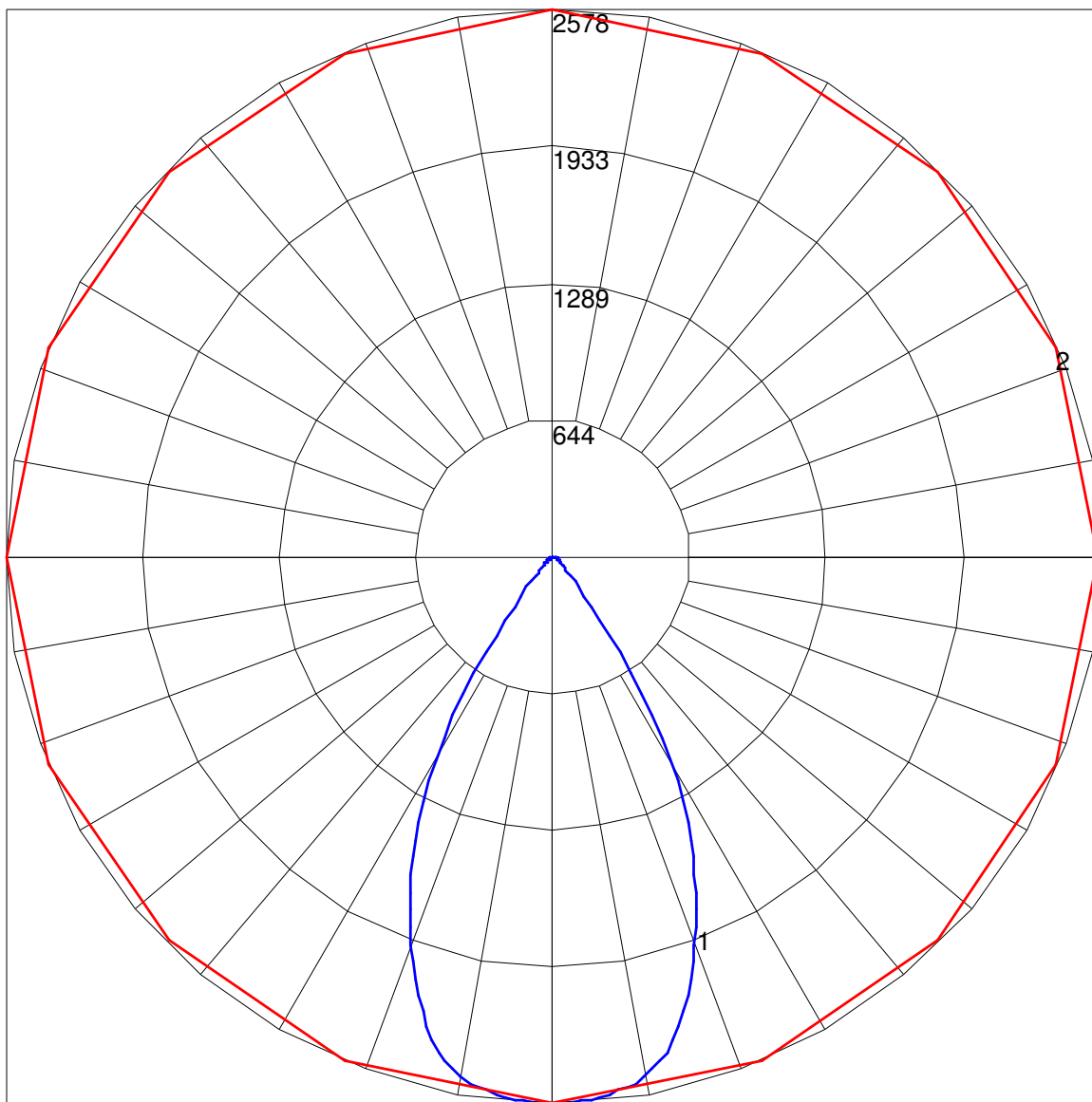
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

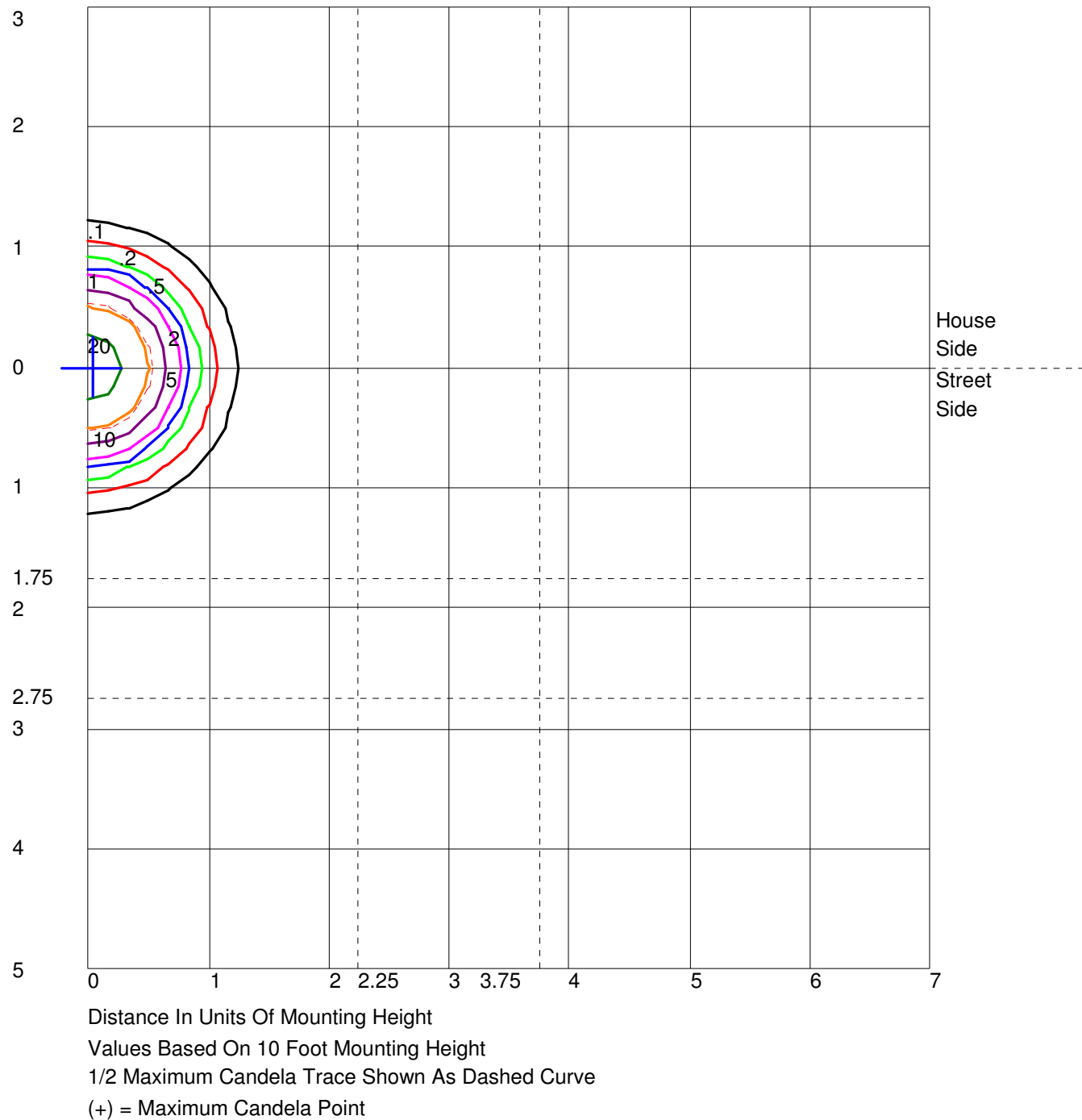
	Lumens	Percent Of Luminaire
Downward Street Side	1022.4	50.0
Downward House Side	1022.4	50.0
Downward Total	2044.8	100.0
Upward Street Side	0.2	0.0
Upward House Side	0.2	0.0
Upward Total	0.4	0.0
Total Flux	2045.2	100.0

POLAR GRAPH

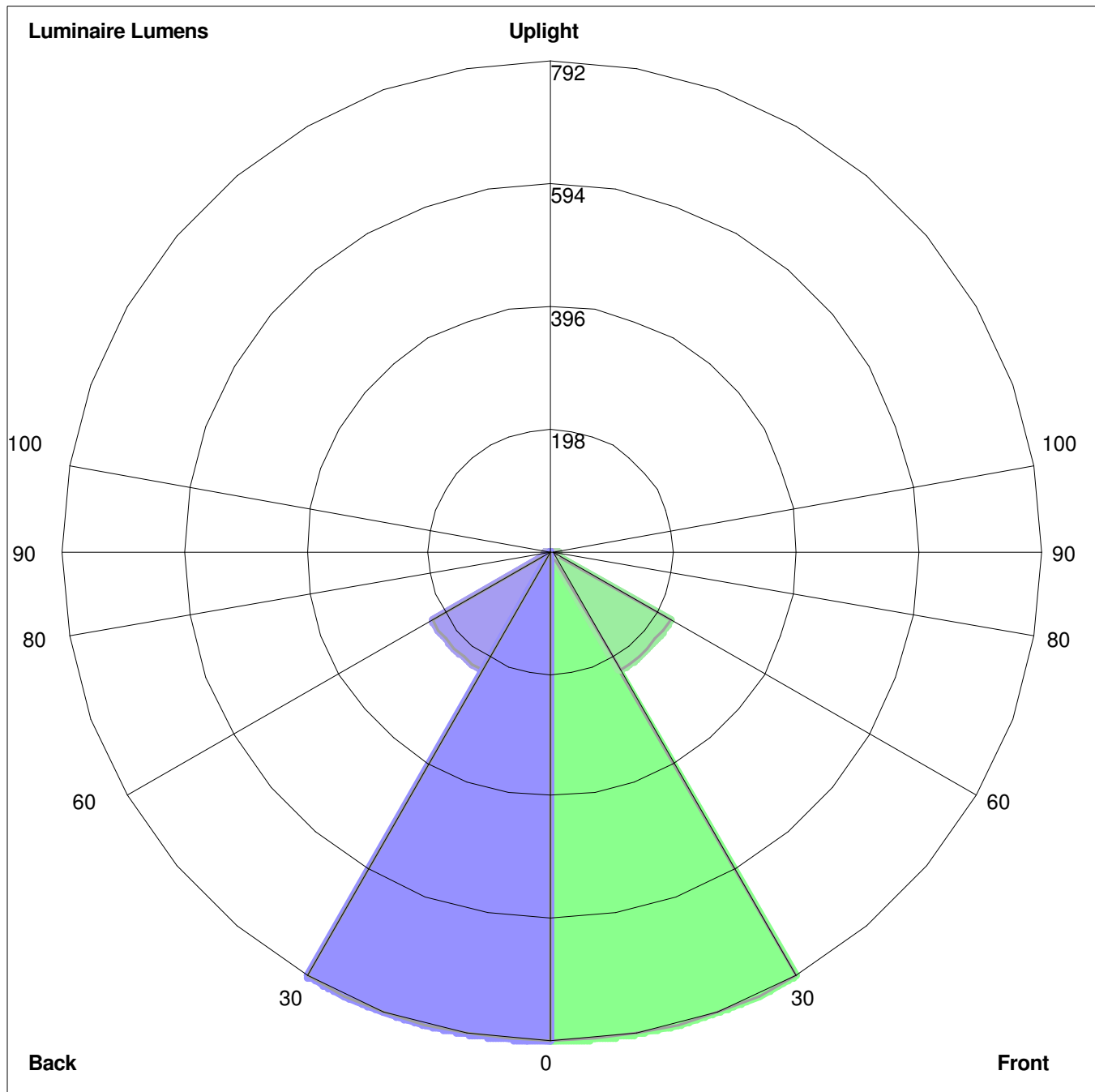


Maximum Candela = 2577.708 Located At Horizontal Angle = 90, Vertical Angle = 2
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
 Front: Low=791.5, Medium=220.9, High=9.5, Very High=0.5
 Back: Low=791.5, Medium=220.9, High=9.5, Very High=0.5
 Uplight: Low=0.3, High=0.0

BUG Rating : B2-U1-G0