

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L15-850-XXX-DIM-UNV-S-XXX_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] W4CR_BARBARA-SPOT DISTRIBUTION
[TESTLAB] LEDIL INC.
[TESTDATE] 07/03/2025
[ISSUEDATE] 2025-07-15
[MANUFAC] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] W4CR-xx-L15-850-xxx-DIM-UNV-S-xxx
[LUMINAIRE] 4 INCH ROUND OUTDOOR LED CYLINDER
[MORE] WITH SPOT DISTRIBUTION & MICROPRISM LENS
[MORE] 0-10 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	1695
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	13.6
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	7597.247
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	7597.247
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.078 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	.345 (0.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-850-XXX-DIM-UNV-S-XXX_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	769.4	N.A.	45.4
FM - Front-Medium (30-60)	75.6	N.A.	4.5
FH - Front-High (60-80)	2.3	N.A.	0.1
FVH - Front-Very High (80-90)	0.1	N.A.	0.0
BL - Back-Low (0-30)	769.4	N.A.	45.4
BM - Back-Medium (30-60)	75.6	N.A.	4.5
BH - Back-High (60-80)	2.3	N.A.	0.1
BVH - Back-Very High (80-90)	0.1	N.A.	0.0
UL - Uplight-Low (90-100)	0.1	N.A.	0.0
UH - Uplight-High (100-180)	< 0.05	N.A.	0.0
Total	1694.9	N.A.	100.0
BUG Rating	B2-U1-G0		

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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	7597.247	7597.247	7597.247	7597.247	7597.247
1	7583.351	7580.109	7580.761	7577.913	7580.827
2	7488.060	7486.751	7481.714	7479.341	7487.475
3	7322.723	7316.923	7312.460	7307.880	7326.122
4	7075.405	7073.506	7065.889	7063.622	7086.070
5	6744.592	6738.625	6736.480	6733.627	6761.942
6	6329.318	6327.118	6329.112	6333.408	6356.881
7	5841.246	5843.514	5857.510	5870.180	5879.612
8	5298.138	5308.006	5335.061	5357.988	5351.525
9	4736.900	4751.659	4793.942	4824.274	4799.698
10	4190.404	4208.306	4260.952	4298.064	4256.389
11	3670.229	3691.189	3752.326	3789.962	3738.252
12	3189.990	3218.155	3277.754	3322.243	3263.380
13	2772.304	2796.034	2858.781	2906.040	2847.203
14	2410.702	2430.470	2489.384	2535.027	2480.598
15	2099.200	2118.522	2177.013	2218.783	2164.555
16	1838.722	1859.253	1901.792	1939.039	1891.869
17	1631.130	1632.790	1674.962	1705.160	1668.833
18	1437.946	1450.894	1483.466	1507.892	1480.223
19	1285.089	1292.282	1327.483	1349.151	1328.854
20	1157.366	1166.977	1191.102	1209.293	1189.085
21	1053.779	1059.567	1080.093	1095.098	1075.842
22	965.836	971.364	987.399	997.422	981.103
23	892.319	895.211	907.558	915.921	901.228
24	828.279	829.823	839.612	844.248	831.578
25	770.123	772.034	778.241	779.634	768.975
26	717.683	717.544	720.023	719.082	709.788
27	663.555	660.825	661.794	660.039	651.554
28	605.755	602.568	601.593	600.568	594.400
29	544.913	541.933	540.841	542.618	537.888
30	480.210	479.152	478.288	481.960	479.280
31	414.861	415.117	415.351	421.285	419.686
32	351.746	352.950	353.512	361.296	361.998
33	290.124	292.442	294.481	302.354	305.875
34	233.004	236.977	239.623	248.020	253.513
35	184.225	187.607	188.721	196.655	204.450
36	138.482	143.324	146.795	152.038	160.646
37	102.763	108.958	110.401	115.037	124.486
38	75.618	79.925	81.111	86.583	93.776
39	57.382	58.062	60.095	63.683	67.962
40	41.475	43.280	46.083	48.685	51.030
41	31.296	32.794	34.700	36.862	39.257
42	24.359	25.613	27.524	29.195	31.095
43	19.718	20.604	22.381	23.852	25.234
44	16.498	17.138	18.676	19.985	20.581
45	14.157	14.642	15.979	16.988	17.255
46	12.458	12.815	13.979	14.709	14.876
47	11.149	11.444	12.436	12.943	13.032
48	10.112	10.397	11.210	11.572	11.622
49	9.299	9.533	10.263	10.491	10.497
50	8.636	8.842	9.472	9.622	9.594
51	8.051	8.246	8.809	8.915	8.859
52	7.516	7.683	8.179	8.213	8.096

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53	7.026	7.176	7.605	7.572	7.416
54	6.597	6.742	7.098	7.003	6.825
55	6.223	6.346	6.647	6.513	6.296
56	5.889	5.978	6.246	6.090	5.828
57	5.572	5.644	5.856	5.705	5.432
58	5.271	5.332	5.510	5.360	5.104
59	4.992	5.037	5.170	5.037	4.797
60	4.714	4.753	4.858	4.725	4.491
61	4.435	4.468	4.563	4.435	4.212
62	4.156	4.184	4.268	4.140	3.922
63	3.878	3.911	3.978	3.850	3.644
64	3.605	3.633	3.700	3.566	3.365
65	3.337	3.371	3.421	3.293	3.103
66	3.076	3.103	3.154	3.031	2.836
67	2.825	2.858	2.903	2.791	2.596
68	2.596	2.619	2.669	2.546	2.362
69	2.374	2.401	2.446	2.329	2.139
70	2.162	2.190	2.240	2.112	1.922
71	1.961	1.983	2.034	1.905	1.716
72	1.766	1.788	1.827	1.705	1.521
73	1.571	1.593	1.627	1.499	1.337
74	1.371	1.393	1.415	1.304	1.137
75	1.164	1.181	1.187	1.098	0.930
76	0.964	0.975	0.947	0.891	0.741
77	0.786	0.791	0.741	0.691	0.568
78	0.607	0.591	0.513	0.474	0.418
79	0.379	0.390	0.373	0.368	0.351
80	0.345	0.345	0.345	0.340	0.329
81	0.323	0.323	0.329	0.323	0.306
82	0.306	0.306	0.312	0.306	0.290
83	0.284	0.284	0.290	0.290	0.273
84	0.262	0.262	0.262	0.256	0.251
85	0.228	0.234	0.240	0.234	0.223
86	0.201	0.201	0.201	0.201	0.195
87	0.167	0.167	0.167	0.167	0.162
88	0.128	0.128	0.134	0.128	0.123
89	0.095	0.089	0.095	0.089	0.089
90	0.078	0.067	0.072	0.067	0.067
91	0.072	0.067	0.067	0.067	0.061
92	0.067	0.067	0.067	0.067	0.061
93	0.072	0.067	0.067	0.067	0.061
94	0.072	0.067	0.067	0.067	0.061
95	0.072	0.067	0.067	0.067	0.061
96	0.072	0.072	0.067	0.067	0.061
97	0.072	0.072	0.067	0.067	0.067
98	0.072	0.072	0.067	0.067	0.061
99	0.072	0.072	0.067	0.072	0.061
100	0.072	0.072	0.067	0.072	0.067
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

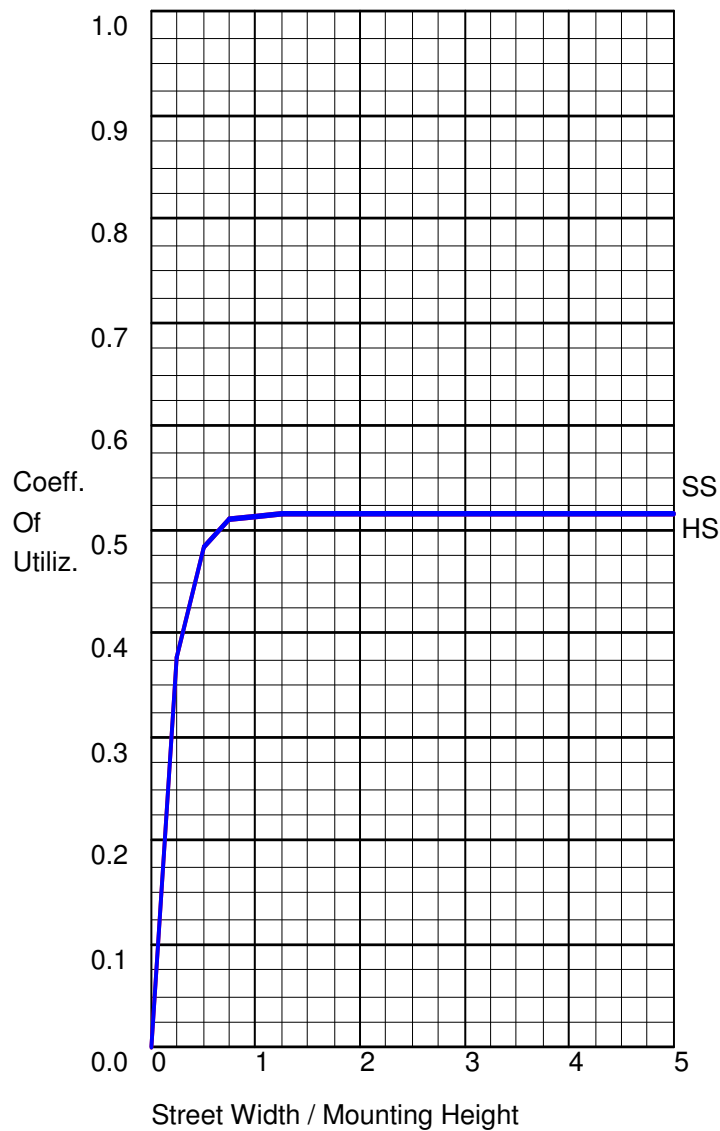
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-850-XXX-DIM-UNV-S-XXX_IES****CANDELA TABULATION - (Cont.)**

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-L15-850-XXX-DIM-UNV-S-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

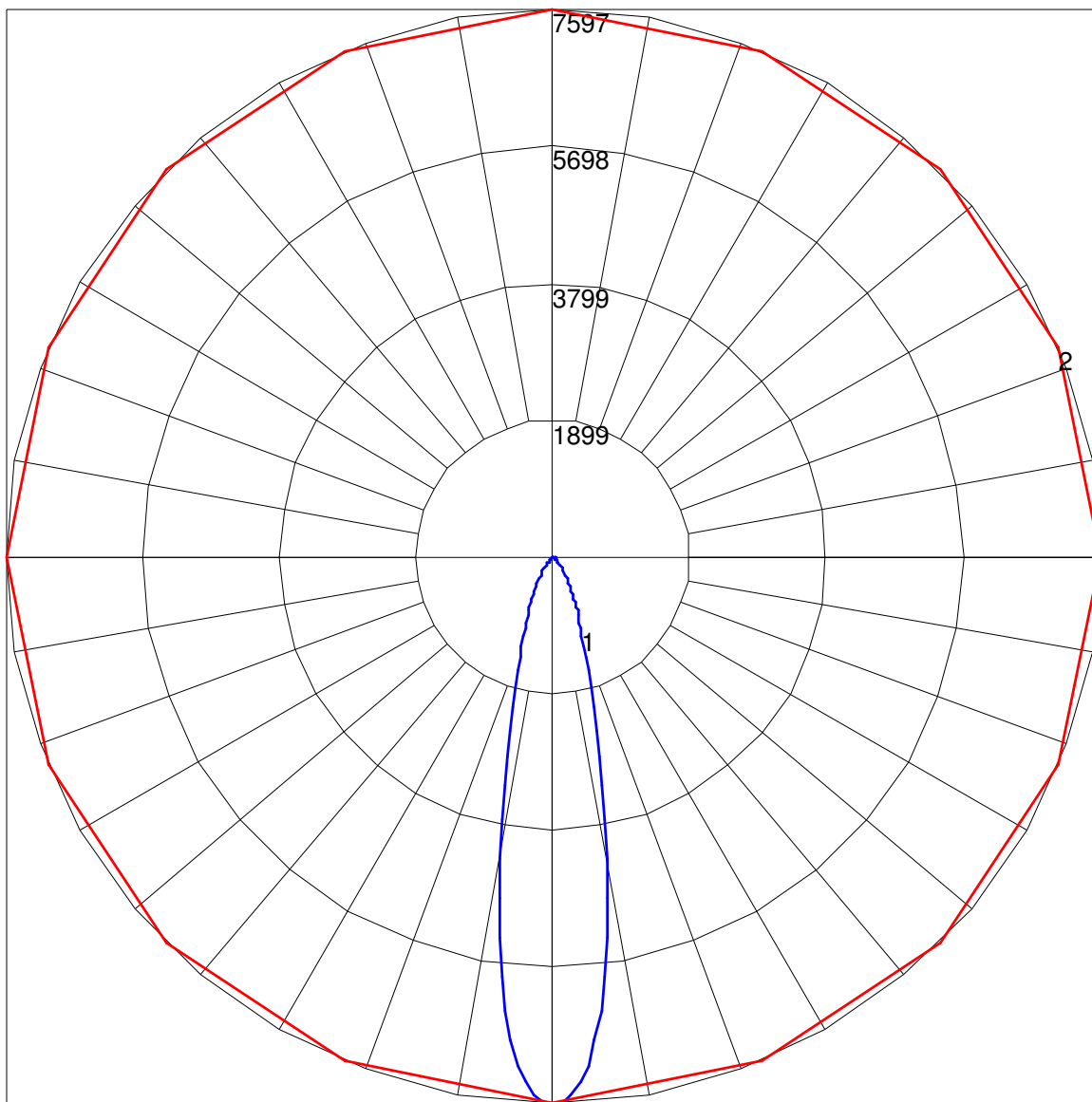
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	847.4	50.0
Downward House Side	847.4	50.0
Downward Total	1694.8	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	1694.8	100.0

POLAR GRAPH



Maximum Candela = 7597.247 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.)

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Distance In Units Of Mounting Height

Values Based On 10 Foot Mounting Height

House Side

Street Side

PHOTO IES R

