

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L15-830-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-L15-830-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	1712
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	126
Total Luminaire Watts	13.6
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	7673.988
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	7673.988
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.079 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	.349 (0.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-830-XXX-DIM-UNV-S-XXX_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	777.2	N.A.	45.4
FM - Front-Medium (30-60)	76.4	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)	777.2	N.A.	45.4
BM - Back-Medium (30-60)	76.4	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	1712.1	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	7673.988	7673.988	7673.988	7673.988	7673.988
1	7659.952	7656.676	7657.335	7654.459	7657.402
2	7563.698	7562.375	7557.288	7554.890	7563.107
3	7396.691	7390.832	7386.324	7381.698	7400.124
4	7146.875	7144.956	7137.263	7134.972	7157.647
5	6812.720	6806.692	6804.526	6801.644	6830.245
6	6393.252	6391.029	6393.043	6397.382	6421.093
7	5900.249	5902.540	5916.677	5929.475	5939.003
8	5351.655	5361.622	5388.951	5412.110	5405.582
9	4784.748	4799.656	4842.366	4873.004	4848.180
10	4232.732	4250.814	4303.992	4341.479	4299.383
11	3707.302	3728.474	3790.229	3828.245	3776.013
12	3222.213	3250.662	3310.863	3355.802	3296.343
13	2800.308	2824.277	2887.658	2935.394	2875.963
14	2435.053	2455.021	2514.530	2560.633	2505.655
15	2120.404	2139.921	2199.003	2241.195	2186.419
16	1857.295	1878.034	1921.003	1958.625	1910.979
17	1647.606	1649.283	1691.881	1722.384	1685.690
18	1452.471	1465.550	1498.450	1523.123	1495.175
19	1298.070	1305.335	1340.892	1362.779	1342.277
20	1169.056	1178.764	1203.133	1221.508	1201.096
21	1064.423	1070.270	1091.003	1106.159	1086.709
22	975.592	981.175	997.372	1007.497	991.013
23	901.333	904.254	916.725	925.172	910.332
24	836.646	838.205	848.093	852.775	839.978
25	777.902	779.832	786.102	787.509	776.743
26	724.932	724.792	727.296	726.345	716.958
27	670.258	667.500	668.479	666.706	658.135
28	611.874	608.655	607.670	606.635	600.404
29	550.418	547.407	546.304	548.099	543.321
30	485.061	483.992	483.119	486.828	484.121
31	419.052	419.311	419.547	425.541	423.925
32	355.299	356.515	357.083	364.945	365.654
33	293.055	295.396	297.456	305.408	308.965
34	235.358	239.370	242.044	250.525	256.074
35	186.086	189.502	190.627	198.642	206.515
36	139.881	144.772	148.278	153.574	162.269
37	103.801	110.059	111.516	116.199	125.744
38	76.382	80.732	81.931	87.457	94.723
39	57.962	58.648	60.702	64.327	68.649
40	41.894	43.717	46.548	49.176	51.546
41	31.612	33.126	35.050	37.234	39.654
42	24.605	25.871	27.802	29.490	31.409
43	19.917	20.812	22.607	24.093	25.489
44	16.664	17.311	18.865	20.187	20.789
45	14.300	14.790	16.141	17.159	17.430
46	12.584	12.944	14.120	14.858	15.026
47	11.261	11.560	12.561	13.074	13.164
48	10.215	10.502	11.323	11.689	11.740
49	9.393	9.629	10.367	10.597	10.603
50	8.723	8.931	9.567	9.719	9.691
51	8.132	8.329	8.898	9.005	8.948
52	7.592	7.761	8.262	8.295	8.177

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-830-XXX-DIM-UNV-S-XXX_.IES****CANDELA TABULATION - (Cont.)**

53	7.097	7.249	7.682	7.648	7.491
54	6.663	6.810	7.170	7.074	6.894
55	6.286	6.410	6.714	6.579	6.360
56	5.949	6.039	6.309	6.151	5.887
57	5.628	5.701	5.915	5.763	5.487
58	5.324	5.386	5.566	5.414	5.155
59	5.043	5.088	5.223	5.088	4.846
60	4.761	4.801	4.908	4.772	4.536
61	4.480	4.514	4.609	4.480	4.255
62	4.198	4.227	4.311	4.182	3.962
63	3.917	3.951	4.018	3.889	3.681
64	3.641	3.669	3.737	3.602	3.399
65	3.371	3.405	3.456	3.326	3.135
66	3.107	3.135	3.185	3.062	2.865
67	2.853	2.887	2.932	2.820	2.623
68	2.623	2.645	2.696	2.572	2.386
69	2.397	2.426	2.471	2.352	2.161
70	2.184	2.212	2.262	2.133	1.942
71	1.981	2.004	2.054	1.925	1.733
72	1.784	1.807	1.846	1.722	1.536
73	1.587	1.610	1.643	1.514	1.351
74	1.384	1.407	1.429	1.317	1.148
75	1.176	1.193	1.199	1.109	0.940
76	0.974	0.985	0.957	0.900	0.749
77	0.794	0.799	0.749	0.698	0.574
78	0.613	0.597	0.518	0.478	0.422
79	0.383	0.394	0.377	0.371	0.355
80	0.349	0.349	0.349	0.343	0.332
81	0.326	0.326	0.332	0.326	0.310
82	0.310	0.310	0.315	0.310	0.293
83	0.287	0.287	0.293	0.293	0.276
84	0.265	0.265	0.265	0.259	0.253
85	0.231	0.236	0.242	0.236	0.225
86	0.203	0.203	0.203	0.203	0.197
87	0.169	0.169	0.169	0.169	0.163
88	0.129	0.129	0.135	0.129	0.124
89	0.096	0.090	0.096	0.090	0.090
90	0.079	0.068	0.073	0.068	0.068
91	0.073	0.068	0.068	0.068	0.062
92	0.068	0.068	0.068	0.068	0.062
93	0.073	0.068	0.068	0.068	0.062
94	0.073	0.068	0.068	0.068	0.062
95	0.073	0.068	0.068	0.068	0.062
96	0.073	0.073	0.068	0.068	0.062
97	0.073	0.073	0.068	0.068	0.068
98	0.073	0.073	0.068	0.068	0.062
99	0.073	0.073	0.068	0.073	0.062
100	0.073	0.073	0.068	0.073	0.068
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

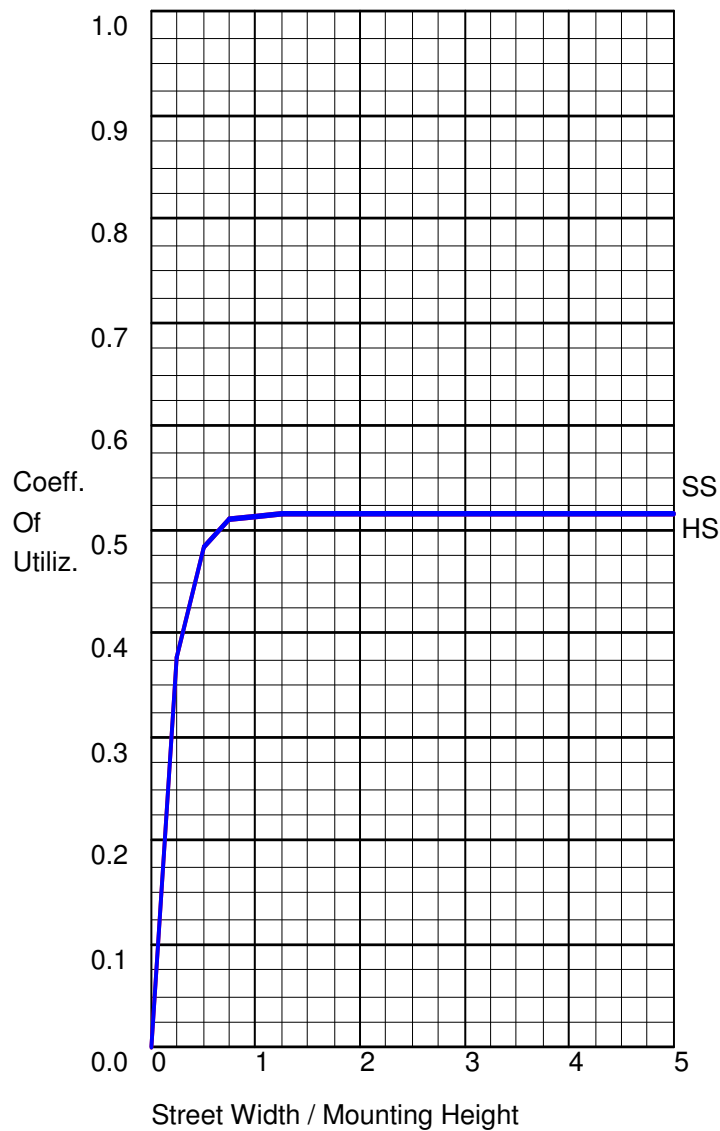
IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L15-830-XXX-DIM-UNV-S-XXX_IES****CANDELA TABULATION - (Cont.)**

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-L15-830-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

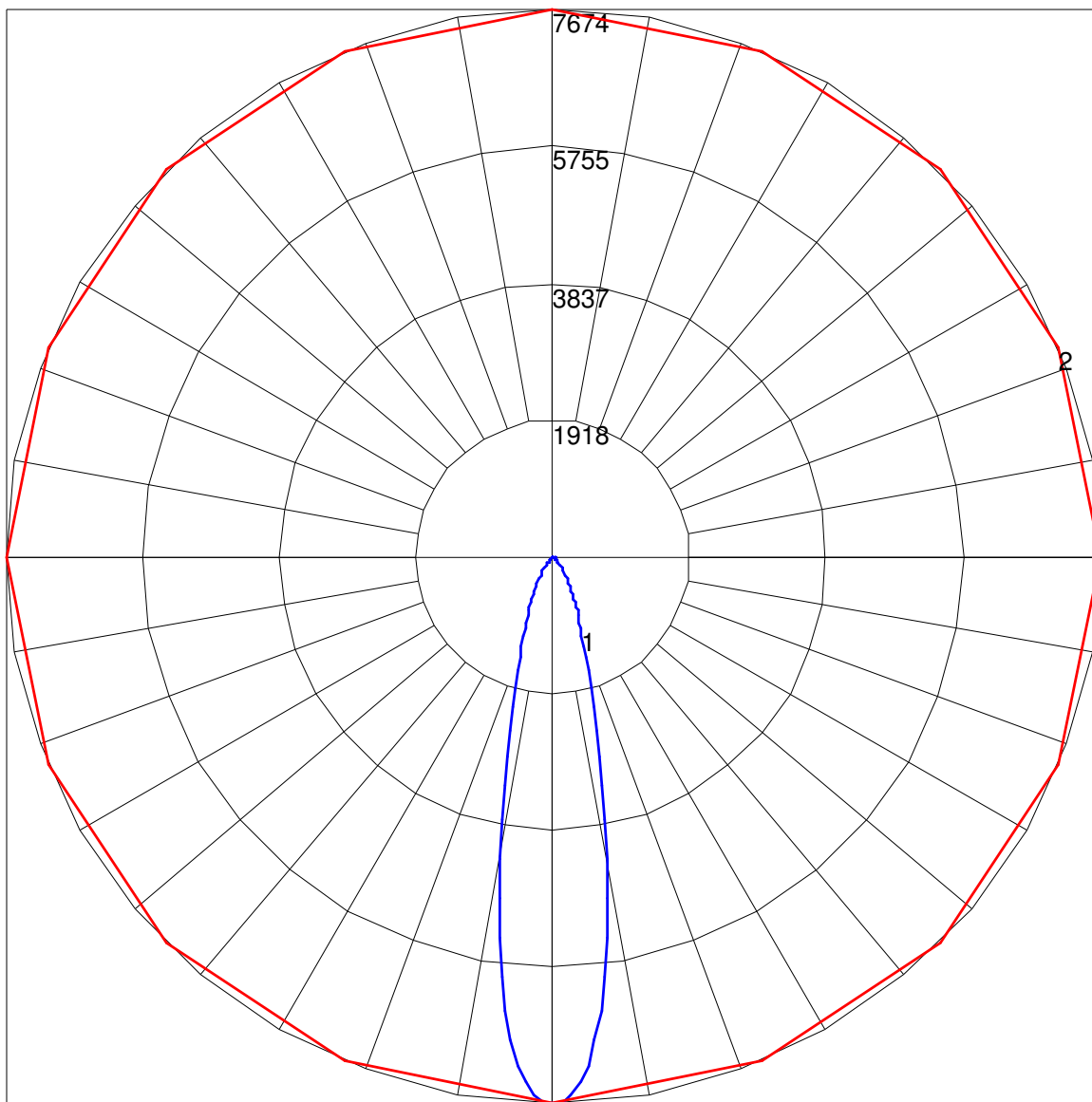
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	855.9	50.0
Downward House Side	855.9	50.0
Downward Total	1711.8	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	1711.8	100.0

POLAR GRAPH



Maximum Candela = 7673.988 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.)

PHOTOMETRIC FILENAME : W4CR-XX-L15-830-XXX-DIM-UNV-S-XXX_.IES

House Side

Street Side

Distance In Units Of Mounting Height

Values Based On 10 Foot Mounting Height

PHOTO IES R

