

IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CR-XX-L10-827-XXX-DIM-UNV-N-XXX_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] W4CR_BARBARA-NARROW
[TESTLAB] LEDIL Inc
[TESTDATE] 07/03/2025
[ISSUEDATE] 2025-07-15
[MANUFAC] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMINAIRE] 4 INCH ROUND OUTDOOR LED CYLINDER
[MORE] NARROW DIST. W/MICROPRISM LENS
[LUMCAT] W4CR-xx-L10-827-xxx-DIM-UNV-N-xxx
[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	1084
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	9.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	3073.932
Maximum Candela Angle	90H 0V
Maximum Candela (<90 Degrees Vertical)	3073.932
Maximum Candela Angle (<90 Degrees Vertical)	90H 0V
Maximum Candela At 90 Degrees Vertical	.099 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	.496 (0.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : W4CR-XX-L10-827-XXX-DIM-UNV-N-XXX_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	476.4	N.A.	44.0
FM - Front-Medium (30-60)	62.2	N.A.	5.7
FH - Front-High (60-80)	3.1	N.A.	0.3
FVH - Front-Very High (80-90)	0.2	N.A.	0.0
BL - Back-Low (0-30)	476.4	N.A.	44.0
BM - Back-Medium (30-60)	62.2	N.A.	5.7
BH - Back-High (60-80)	3.1	N.A.	0.3
BVH - Back-Very High (80-90)	0.2	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	1083.9	N.A.	100.0
BUG Rating	B1-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	3073.932	3073.932	3073.932	3073.932	3073.932
1	3070.284	3070.144	3069.550	3069.399	3070.519
2	3055.202	3054.306	3053.716	3048.797	3047.773
3	3027.042	3022.465	3023.236	3020.355	3021.819
4	2982.102	2979.584	2977.029	2973.917	2976.490
5	2919.656	2923.488	2915.898	2911.115	2917.432
6	2842.302	2844.970	2839.391	2837.255	2841.733
7	2755.592	2751.910	2748.111	2748.812	2752.303
8	2650.052	2644.689	2643.251	2642.502	2647.688
9	2527.136	2524.020	2520.144	2520.137	2529.779
10	2389.568	2386.045	2383.501	2383.307	2395.650
11	2235.377	2232.426	2234.067	2236.856	2247.944
12	2069.110	2067.396	2071.426	2076.271	2090.776
13	1895.021	1896.643	1903.162	1909.820	1923.203
14	1719.046	1722.136	1733.419	1741.766	1751.984
15	1546.572	1552.085	1566.730	1576.247	1585.992
16	1381.945	1390.479	1407.099	1420.048	1425.095
17	1233.575	1242.314	1261.878	1272.137	1275.180
18	1100.878	1104.482	1126.171	1136.646	1139.876
19	975.191	985.835	1008.199	1016.795	1019.901
20	869.894	880.898	900.633	913.168	916.027
21	780.904	790.337	809.816	819.554	818.577
22	706.240	715.754	732.645	740.621	739.065
23	645.215	652.222	667.550	674.608	671.943
24	592.985	598.865	613.642	618.711	615.932
25	547.438	553.652	567.035	571.028	567.420
26	506.575	512.756	524.674	528.040	524.898
27	468.656	473.240	484.534	487.408	484.696
28	430.348	433.776	443.693	446.153	444.325
29	391.566	394.502	401.483	404.559	403.832
30	351.176	352.314	358.444	361.795	360.888
31	308.530	309.212	313.672	316.674	316.722
32	266.661	266.265	269.102	272.211	272.280
33	224.069	223.361	225.813	228.543	228.235
34	183.243	182.957	184.572	186.939	187.009
35	147.563	145.540	147.122	148.187	147.621
36	113.369	112.899	113.732	114.327	113.229
37	85.429	85.613	84.739	84.692	85.903
38	63.366	64.310	62.258	62.746	62.985
39	46.460	45.998	46.310	45.458	45.279
40	35.567	33.941	33.999	33.948	33.941
41	25.888	25.913	26.372	26.552	26.857
42	20.661	20.892	21.604	22.008	22.511
43	17.780	17.996	18.774	19.314	19.718
44	16.293	16.455	17.211	17.776	18.033
45	15.632	15.743	16.484	16.935	17.145
46	15.416	15.555	16.201	16.550	16.741
47	15.486	15.621	16.161	16.440	16.631
48	15.673	15.765	16.223	16.425	16.631
49	15.783	15.882	16.267	16.407	16.587
50	15.794	15.871	16.216	16.322	16.458
51	15.621	15.680	16.003	16.084	16.179
52	15.152	15.225	15.508	15.548	15.607

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53	14.447	14.509	14.777	14.774	14.810
54	13.548	13.621	13.849	13.812	13.856
55	12.542	12.586	12.791	12.736	12.762
56	11.452	11.474	11.617	11.580	11.588
57	10.292	10.318	10.406	10.384	10.369
58	9.183	9.202	9.246	9.227	9.213
59	8.156	8.148	8.159	8.137	8.130
60	7.220	7.205	7.187	7.183	7.179
61	6.412	6.387	6.365	6.350	6.357
62	5.722	5.686	5.667	5.652	5.660
63	5.150	5.120	5.084	5.073	5.087
64	4.665	4.643	4.614	4.595	4.621
65	4.280	4.258	4.232	4.206	4.236
66	3.935	3.924	3.894	3.876	3.909
67	3.648	3.637	3.604	3.593	3.626
68	3.380	3.373	3.347	3.329	3.369
69	3.138	3.135	3.102	3.087	3.124
70	2.914	2.907	2.874	2.852	2.881
71	2.690	2.690	2.646	2.621	2.639
72	2.478	2.474	2.426	2.393	2.415
73	2.261	2.257	2.202	2.162	2.180
74	2.033	2.030	1.971	1.923	1.942
75	1.795	1.776	1.725	1.670	1.685
76	1.520	1.498	1.435	1.391	1.406
77	1.208	1.193	1.112	1.079	1.079
78	0.844	0.837	0.756	0.712	0.719
79	0.547	0.554	0.532	0.536	0.536
80	0.496	0.496	0.488	0.488	0.488
81	0.462	0.462	0.462	0.466	0.462
82	0.440	0.437	0.437	0.440	0.440
83	0.411	0.407	0.407	0.407	0.411
84	0.378	0.374	0.374	0.378	0.378
85	0.341	0.341	0.341	0.341	0.341
86	0.301	0.297	0.297	0.297	0.301
87	0.250	0.250	0.250	0.250	0.250
88	0.195	0.195	0.195	0.191	0.191
89	0.136	0.132	0.132	0.132	0.132
90	0.099	0.092	0.092	0.088	0.084
91	0.092	0.088	0.084	0.081	0.081
92	0.092	0.088	0.084	0.084	0.081
93	0.092	0.088	0.088	0.084	0.084
94	0.092	0.088	0.088	0.084	0.084
95	0.092	0.088	0.088	0.084	0.088
96	0.095	0.088	0.088	0.084	0.084
97	0.095	0.092	0.088	0.088	0.088
98	0.095	0.092	0.092	0.092	0.092
99	0.103	0.092	0.092	0.092	0.092
100	0.103	0.095	0.092	0.092	0.092
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

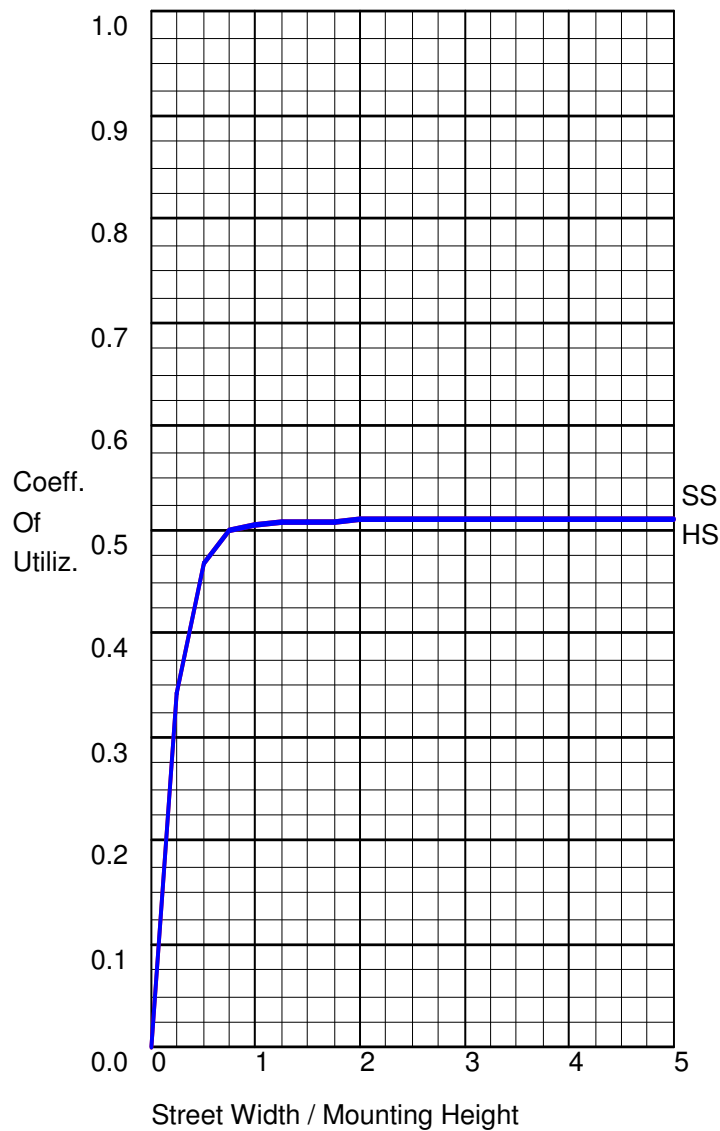
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109	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000
111	0.000	0.000	0.000	0.000	0.000
112	0.000	0.000	0.000	0.000	0.000
113	0.000	0.000	0.000	0.000	0.000
114	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000
116	0.000	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

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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

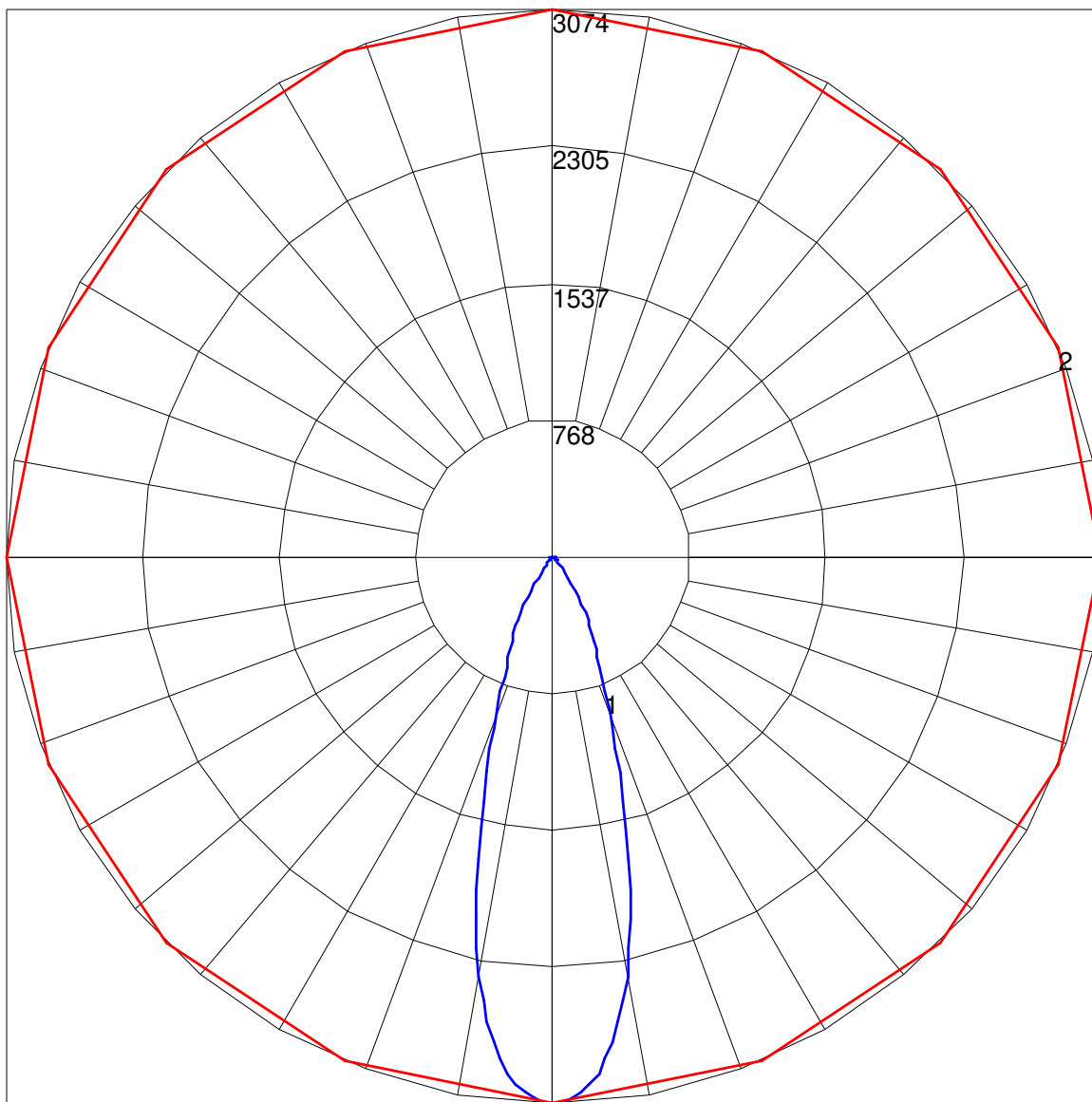
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	541.9	50.0
Downward House Side	541.9	50.0
Downward Total	1083.8	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	1084.0	100.0

POLAR GRAPH



Maximum Candela = 3073.932 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

