

IES INDOOR REPORT

PHOTOMETRIC FILENAME : W6CR-XX-L50-840-XXX-DIM-UNV-N-XXX_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] W6CR_Angela-M_(V22)_measured
[TESTLAB] LEDIL Inc
[TESTDATE] 21 Aug 2024
[ISSUEDATE] 2025-07-15
[MANUFAC] H.E. WILLIAMS, INC.
[LUMCAT] W6CR-xx-L50-840-xxx-DIM-UNV-N-xxx
[LUMINAIRE] 6 INCH ROUND WET LOCATION LED
[MORE] CYLINDER WITH NARROW DIST.
[LAMPCAT] BL VERO 22 COB
[LAMP] LED
[OTHER] Absolute Photometry

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4634
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	45
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.44
Spacing Criterion (90-270)	0.46
Spacing Criterion (Diagonal)	0.52
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.15 m (Diameter)
Luminous Width (90-270)	0.15 m (Diameter)
Luminous Height	0.00 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	18051	18050	17681
55	10792	10612	10302
65	6398	6299	6134
75	4217	4170	4102
85	1034	1034	1023

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	11477.810	11477.810	11477.810	11477.810	11477.810
1	11426.344	11430.679	11438.520	11448.351	11450.273
2	11281.089	11297.024	11329.367	11364.964	11375.537
3	11044.437	11076.645	11146.845	11223.570	11245.475
4	10721.094	10772.036	10887.934	10999.599	11032.684
5	10315.798	10381.799	10532.637	10674.149	10711.314
6	9836.661	9913.116	10080.749	10242.766	10281.382
7	9299.666	9378.551	9554.159	9713.394	9754.876
8	8711.747	8791.424	8958.365	9116.588	9149.049
9	8101.687	8179.610	8333.803	8481.688	8515.869
10	7500.716	7567.897	7711.331	7843.602	7880.633
11	6912.088	6967.094	7097.122	7215.415	7249.090
12	6350.828	6398.179	6514.650	6620.969	6645.572
13	5836.279	5874.203	5975.413	6072.459	6086.691
14	5359.063	5398.134	5482.937	5574.215	5572.309
15	4938.574	4963.109	5044.135	5111.012	5115.295
16	4541.119	4567.745	4646.916	4707.504	4720.977
17	4200.121	4226.629	4290.589	4339.154	4353.572
18	3906.979	3928.496	3985.812	4024.074	4039.942
19	3653.127	3673.110	3721.691	3752.837	3768.131
20	3438.414	3456.036	3494.752	3525.004	3529.085
21	3253.480	3267.088	3297.846	3326.715	3326.226
22	3095.662	3103.621	3127.482	3153.518	3159.471
23	2960.946	2962.362	2982.260	2999.797	3009.746
24	2836.768	2835.959	2852.940	2862.973	2875.232
25	2725.525	2722.928	2732.169	2737.177	2745.102
26	2618.632	2613.236	2614.619	2616.878	2619.037
27	2510.744	2500.154	2494.556	2492.060	2493.679
28	2391.828	2378.557	2363.026	2364.207	2362.706
29	2253.621	2241.901	2215.713	2206.540	2207.299
30	2106.966	2084.960	2053.190	2034.709	2041.302
31	1924.966	1905.051	1874.142	1856.335	1849.927
32	1721.821	1705.767	1678.214	1664.656	1657.810
33	1502.335	1491.105	1474.647	1469.267	1468.694
34	1278.263	1273.036	1270.371	1277.977	1286.391
35	1062.218	1063.550	1072.538	1094.021	1108.236
36	867.521	871.804	893.051	920.807	935.477
37	696.937	705.723	732.248	763.832	774.354
38	558.359	577.060	596.789	627.614	633.415
39	463.456	476.322	493.404	518.293	519.322
40	380.946	390.322	411.889	429.679	436.947
41	330.493	336.968	348.873	359.547	362.785
42	295.671	298.993	305.755	311.219	312.500
43	269.568	271.203	274.239	276.161	275.200
44	249.113	249.501	250.766	249.838	248.894
45	231.711	231.998	231.694	229.940	226.956
46	216.315	216.029	214.848	212.386	210.177
47	201.796	201.442	199.756	197.260	195.153
48	188.222	187.834	185.996	183.365	181.359
49	175.373	174.917	173.096	170.499	168.543
50	163.113	162.607	160.904	158.358	156.554
51	151.663	151.107	149.438	147.077	145.340
52	140.787	140.281	138.645	136.487	134.784
53	130.703	130.197	128.713	126.673	125.003

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CANDELA TABULATION - (Cont.)

54	121.327	120.805	119.371	117.432	115.830
55	112.373	111.851	110.502	108.630	107.264
56	103.588	103.099	101.851	100.182	98.917
57	95.274	94.853	93.656	92.155	91.042
58	87.686	87.282	86.236	84.803	83.875
59	80.604	80.216	79.322	78.007	77.164
60	74.129	73.791	72.931	71.818	71.026
61	68.210	67.873	67.114	66.068	65.293
62	62.814	62.443	61.768	60.891	60.133
63	57.805	57.536	56.895	56.136	55.411
64	53.219	52.949	52.409	51.701	51.077
65	49.087	48.767	48.329	47.671	47.064
66	45.142	44.889	44.467	43.911	43.354
67	41.533	41.297	40.943	40.454	39.965
68	38.262	38.009	37.705	37.250	36.811
69	35.091	34.940	34.619	34.248	33.810
70	32.208	32.022	31.769	31.432	31.044
71	29.476	29.291	29.088	28.785	28.447
72	26.930	26.727	26.559	26.272	26.002
73	24.451	24.282	24.131	23.895	23.658
74	22.090	21.955	21.804	21.618	21.399
75	19.814	19.713	19.595	19.460	19.274
76	17.588	17.520	17.436	17.318	17.183
77	15.429	15.396	15.345	15.295	15.176
78	13.305	13.271	13.288	13.254	13.204
79	11.197	11.197	11.247	11.298	11.231
80	9.106	9.123	9.173	9.308	9.241
81	6.880	6.947	6.981	7.099	7.032
82	3.980	4.081	4.216	4.233	4.283
83	1.956	1.973	2.142	2.243	2.411
84	1.787	1.771	1.771	1.787	1.771
85	1.636	1.653	1.636	1.636	1.619
86	1.467	1.467	1.467	1.467	1.450
87	1.248	1.248	1.248	1.248	1.231
88	0.978	0.978	0.961	0.961	0.961
89	0.641	0.641	0.641	0.641	0.641
90	0.337	0.371	0.388	0.405	0.422
91	0.337	0.337	0.337	0.337	0.320
92	0.337	0.354	0.354	0.337	0.337
93	0.354	0.354	0.354	0.354	0.337
94	0.354	0.354	0.354	0.354	0.354
95	0.371	0.371	0.371	0.354	0.354
96	0.388	0.388	0.388	0.371	0.371
97	0.388	0.405	0.405	0.388	0.388
98	0.422	0.422	0.422	0.405	0.405
99	0.455	0.438	0.438	0.438	0.438
100	0.455	0.438	0.438	0.438	0.455
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
109	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

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
165	0.000	0.000	0.000	0.000	0.000

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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

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2328.79	N.A.	50.30
0-30	3581.39	N.A.	77.30
0-40	4272.55	N.A.	92.20
0-60	4560.75	N.A.	98.40
0-80	4630.6	N.A.	99.90
0-90	4633.41	N.A.	100.00
10-90	3722.72	N.A.	80.30
20-40	1943.76	N.A.	41.90
20-50	2132.11	N.A.	46.00
40-70	337.12	N.A.	7.30
60-80	69.85	N.A.	1.50
70-80	20.93	N.A.	0.50
80-90	2.81	N.A.	0.10
90-110	0.44	N.A.	0.00
90-120	0.44	N.A.	0.00
90-130	0.44	N.A.	0.00
90-150	0.44	N.A.	0.00
90-180	0.44	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	4633.85	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	910.69
10-20	1418.1
20-30	1252.6
30-40	691.16
40-50	188.35
50-60	99.84
60-70	48.92
70-80	20.93
80-90	2.81
90-100	0.41
100-110	0.02
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88
3	104	98	93	89	102	96	92	88	94	90	87	91	88	86	89	87	84	83
4	99	92	87	83	97	91	86	82	89	85	81	87	83	80	85	82	79	78
5	95	87	81	77	93	86	81	77	84	80	76	83	79	76	81	78	75	74
6	90	82	77	73	89	81	76	73	80	75	72	79	75	72	77	74	71	70
7	87	78	73	69	85	77	72	69	76	72	68	75	71	68	74	70	67	66
8	83	74	69	65	82	74	69	65	73	68	65	72	68	64	71	67	64	63
9	80	71	66	62	79	70	65	62	70	65	62	69	64	61	68	64	61	60
10	77	68	63	59	76	67	62	59	67	62	59	66	62	59	65	61	58	57

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UGR TABLE - CORRECTED

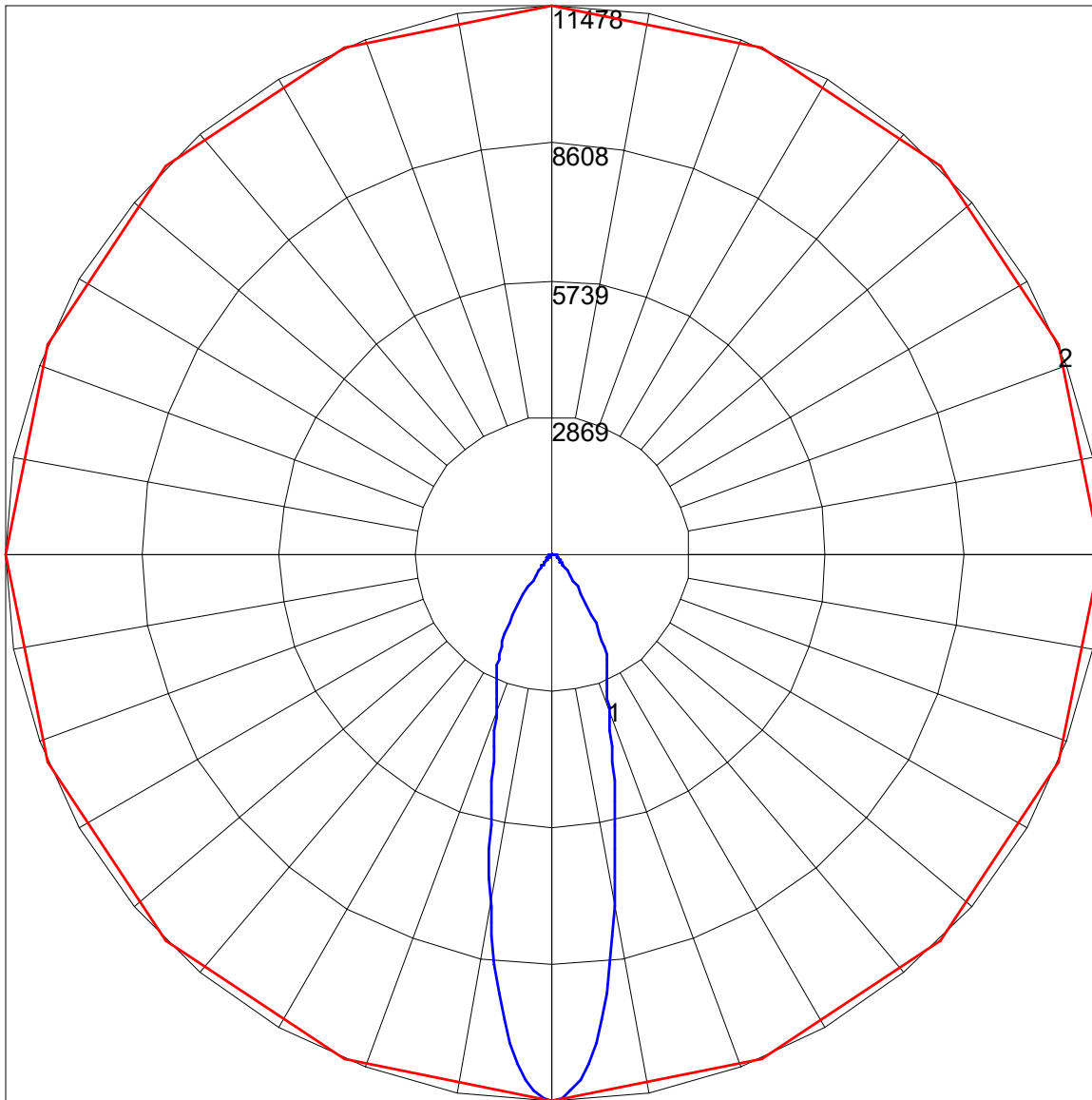
Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	12.5	13.5	12.8	13.8	14.1	12.3	13.2	12.6	13.6	13.9
	3H	13.2	14.1	13.6	14.4	14.8	13.0	13.9	13.4	14.2	14.6
	4H	13.5	14.3	13.9	14.6	15.0	13.2	14.0	13.6	14.4	14.8
	6H	13.6	14.3	14.0	14.7	15.1	13.4	14.1	13.8	14.5	14.8
	8H	13.5	14.2	13.9	14.6	15.0	13.3	14.0	13.7	14.4	14.8
	12H	13.5	14.1	13.9	14.5	14.9	13.3	13.9	13.7	14.3	14.7
4H	2H	12.6	13.4	13.0	13.8	14.2	12.4	13.2	12.8	13.6	14.0
	3H	13.6	14.2	14.0	14.6	15.0	13.4	14.0	13.8	14.4	14.8
	4H	13.9	14.4	14.3	14.9	15.3	13.7	14.3	14.1	14.7	15.1
	6H	14.0	14.5	14.5	15.0	15.4	13.9	14.4	14.3	14.8	15.3
	8H	14.0	14.4	14.5	14.9	15.4	13.8	14.3	14.3	14.7	15.2
	12H	13.9	14.3	14.4	14.8	15.3	13.8	14.2	14.3	14.7	15.1
8H	4H	13.9	14.3	14.4	14.8	15.3	13.7	14.2	14.2	14.6	15.1
	6H	14.1	14.4	14.6	15.0	15.4	13.9	14.3	14.4	14.8	15.3
	8H	14.1	14.4	14.6	14.9	15.4	13.9	14.2	14.5	14.8	15.3
	12H	14.0	14.3	14.5	14.8	15.4	13.9	14.1	14.4	14.6	15.2
12H	4H	13.8	14.2	14.3	14.7	15.2	13.7	14.1	14.2	14.6	15.0
	6H	14.0	14.4	14.6	14.8	15.4	13.9	14.2	14.4	14.7	15.2
	8H	14.0	14.3	14.6	14.8	15.4	13.9	14.2	14.4	14.7	15.2

Maximum UGR = 15.4

POLAR GRAPH



Maximum Candela = 11477.81 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)