

IES INDOOR REPORT

PHOTOMETRIC FILENAME : W6CR-XX-L50-927-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-L50-927-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	4313
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
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	16800	16799	16455
55	10044	9877	9588
65	5955	5863	5709
75	3925	3881	3818
85	962	962	952

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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	10682.314	10682.314	10682.314	10682.314	10682.314
1	10634.416	10638.450	10645.748	10654.897	10656.686
2	10499.228	10514.059	10544.160	10577.290	10587.130
3	10278.978	10308.953	10374.288	10445.695	10466.082
4	9978.045	10025.456	10133.321	10237.248	10268.039
5	9600.838	9662.265	9802.649	9934.353	9968.942
6	9154.909	9226.065	9382.080	9532.868	9568.808
7	8655.132	8728.549	8891.986	9040.185	9078.793
8	8107.960	8182.114	8337.485	8484.742	8514.953
9	7540.182	7612.704	7756.210	7893.846	7925.658
10	6980.862	7043.387	7176.880	7299.984	7334.448
11	6433.030	6484.224	6605.240	6715.335	6746.675
12	5910.670	5954.739	6063.138	6162.088	6184.986
13	5431.783	5467.078	5561.274	5651.593	5664.839
14	4987.641	5024.004	5102.930	5187.881	5186.108
15	4596.295	4619.130	4694.540	4756.782	4760.768
16	4226.387	4251.168	4324.851	4381.240	4393.779
17	3909.022	3933.693	3993.220	4038.419	4051.838
18	3636.197	3656.223	3709.566	3745.177	3759.944
19	3399.939	3418.536	3463.751	3492.738	3506.973
20	3200.107	3216.507	3252.541	3280.696	3284.494
21	3027.991	3040.656	3069.281	3096.150	3095.695
22	2881.110	2888.518	2910.725	2934.956	2940.496
23	2755.731	2757.049	2775.568	2791.889	2801.149
24	2640.160	2639.406	2655.210	2664.548	2675.958
25	2536.626	2534.209	2542.810	2547.471	2554.847
26	2437.142	2432.120	2433.407	2435.510	2437.518
27	2336.731	2326.875	2321.665	2319.342	2320.849
28	2226.057	2213.706	2199.252	2200.350	2198.953
29	2097.429	2086.521	2062.148	2053.611	2054.317
30	1960.938	1940.457	1910.889	1893.689	1899.825
31	1791.552	1773.017	1744.250	1727.677	1721.714
32	1602.486	1587.545	1561.901	1549.283	1542.912
33	1398.213	1387.760	1372.443	1367.437	1366.903
34	1189.670	1184.805	1182.325	1189.403	1197.235
35	988.598	989.838	998.203	1018.197	1031.427
36	807.395	811.381	831.156	856.988	870.642
37	648.634	656.811	681.498	710.893	720.686
38	519.661	537.065	555.427	584.116	589.515
39	431.335	443.309	459.207	482.372	483.329
40	354.544	363.270	383.342	399.900	406.664
41	307.587	313.614	324.694	334.628	337.641
42	275.179	278.271	284.564	289.649	290.842
43	250.885	252.407	255.232	257.021	256.127
44	231.848	232.209	233.386	232.523	231.644
45	215.652	215.918	215.636	214.004	211.226
46	201.323	201.056	199.958	197.666	195.610
47	187.810	187.481	185.911	183.589	181.627
48	175.177	174.816	173.105	170.657	168.789
49	163.218	162.794	161.099	158.682	156.862
50	151.808	151.338	149.752	147.383	145.703
51	141.152	140.634	139.081	136.883	135.267
52	131.029	130.559	129.036	127.027	125.442
53	121.644	121.174	119.793	117.894	116.340

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CANDELA TABULATION - (Cont.)

54	112.919	112.432	111.098	109.293	107.802
55	104.585	104.099	102.843	101.101	99.830
56	96.408	95.953	94.792	93.238	92.061
57	88.671	88.279	87.165	85.768	84.732
58	81.609	81.232	80.259	78.925	78.062
59	75.017	74.657	73.825	72.601	71.816
60	68.991	68.677	67.877	66.841	66.103
61	63.482	63.168	62.462	61.489	60.767
62	58.460	58.115	57.487	56.671	55.965
63	53.799	53.548	52.952	52.245	51.571
64	49.530	49.279	48.777	48.118	47.537
65	45.685	45.387	44.979	44.367	43.802
66	42.013	41.778	41.385	40.867	40.349
67	38.654	38.435	38.105	37.650	37.195
68	35.610	35.374	35.092	34.668	34.260
69	32.659	32.518	32.220	31.875	31.467
70	29.976	29.803	29.568	29.254	28.893
71	27.433	27.261	27.072	26.790	26.476
72	25.063	24.875	24.718	24.451	24.200
73	22.756	22.599	22.458	22.238	22.019
74	20.559	20.434	20.292	20.120	19.916
75	18.440	18.346	18.236	18.111	17.938
76	16.369	16.306	16.228	16.118	15.992
77	14.360	14.329	14.282	14.234	14.125
78	12.383	12.351	12.367	12.336	12.288
79	10.421	10.421	10.468	10.515	10.452
80	8.475	8.490	8.538	8.663	8.600
81	6.403	6.466	6.497	6.607	6.544
82	3.704	3.798	3.924	3.939	3.986
83	1.821	1.836	1.993	2.087	2.244
84	1.664	1.648	1.648	1.664	1.648
85	1.522	1.538	1.522	1.522	1.507
86	1.365	1.365	1.365	1.365	1.350
87	1.161	1.161	1.161	1.161	1.146
88	0.910	0.910	0.895	0.895	0.895
89	0.596	0.596	0.596	0.596	0.596
90	0.314	0.345	0.361	0.377	0.392
91	0.314	0.314	0.314	0.314	0.298
92	0.314	0.330	0.330	0.314	0.314
93	0.330	0.330	0.330	0.330	0.314
94	0.330	0.330	0.330	0.330	0.330
95	0.345	0.345	0.345	0.330	0.330
96	0.361	0.361	0.361	0.345	0.345
97	0.361	0.377	0.377	0.361	0.361
98	0.392	0.392	0.392	0.377	0.377
99	0.424	0.408	0.408	0.408	0.408
100	0.424	0.408	0.408	0.408	0.424
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	2167.39	N.A.	50.30
0-30	3333.17	N.A.	77.30
0-40	3976.43	N.A.	92.20
0-60	4244.66	N.A.	98.40
0-80	4309.67	N.A.	99.90
0-90	4312.28	N.A.	100.00
10-90	3464.71	N.A.	80.30
20-40	1809.04	N.A.	41.90
20-50	1984.34	N.A.	46.00
40-70	313.75	N.A.	7.30
60-80	65.01	N.A.	1.50
70-80	19.48	N.A.	0.50
80-90	2.61	N.A.	0.10
90-110	0.41	N.A.	0.00
90-120	0.41	N.A.	0.00
90-130	0.41	N.A.	0.00
90-150	0.41	N.A.	0.00
90-180	0.41	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	4312.69	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	847.57
10-20	1319.82
20-30	1165.78
30-40	643.26
40-50	175.30
50-60	92.92
60-70	45.53
70-80	19.48
80-90	2.61
90-100	0.39
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

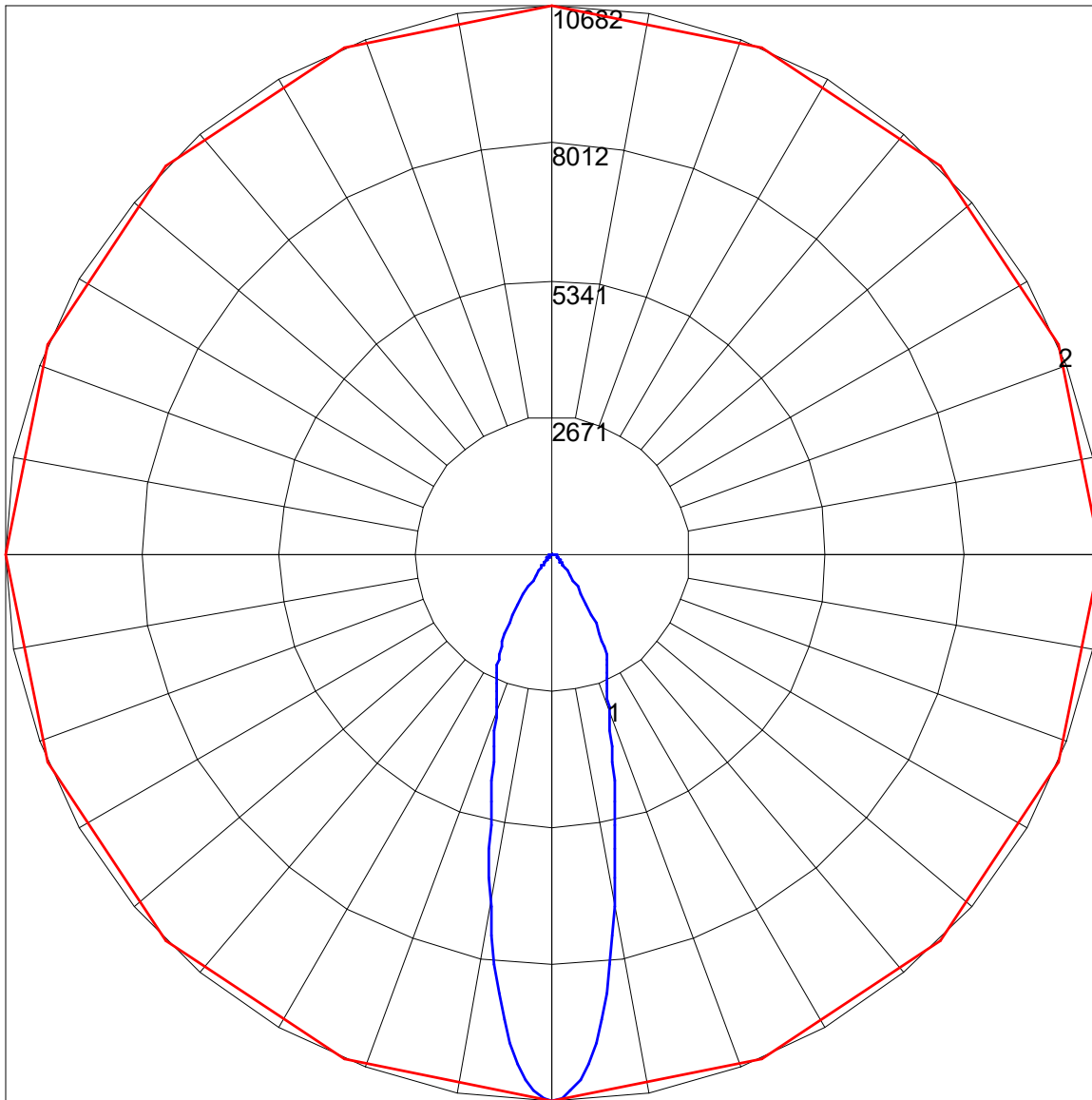
Reflectances

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	12.2	13.2	12.5	13.5	13.8	12.0	12.9	12.3	13.3	13.6
	3H	12.9	13.8	13.3	14.1	14.5	12.7	13.6	13.1	13.9	14.3
	4H	13.2	14.0	13.6	14.3	14.7	12.9	13.7	13.3	14.1	14.5
	6H	13.3	14.0	13.7	14.4	14.8	13.1	13.8	13.5	14.2	14.5
	8H	13.2	13.9	13.6	14.3	14.7	13.0	13.7	13.4	14.1	14.5
	12H	13.2	13.8	13.6	14.2	14.6	13.0	13.6	13.4	14.0	14.4
4H	2H	12.3	13.1	12.7	13.5	13.9	12.1	12.9	12.5	13.3	13.7
	3H	13.3	13.9	13.7	14.3	14.7	13.1	13.7	13.5	14.1	14.5
	4H	13.6	14.1	14.0	14.6	15.0	13.4	14.0	13.8	14.4	14.8
	6H	13.7	14.2	14.2	14.7	15.1	13.6	14.1	14.0	14.5	15.0
	8H	13.7	14.1	14.2	14.6	15.1	13.5	14.0	14.0	14.4	14.9
	12H	13.6	14.0	14.1	14.5	15.0	13.5	13.9	14.0	14.4	14.8
8H	4H	13.6	14.0	14.1	14.5	15.0	13.4	13.9	13.9	14.3	14.8
	6H	13.8	14.1	14.3	14.7	15.1	13.6	14.0	14.1	14.5	15.0
	8H	13.8	14.1	14.3	14.6	15.1	13.6	13.9	14.2	14.5	15.0
	12H	13.7	14.0	14.2	14.5	15.1	13.6	13.8	14.1	14.3	14.9
12H	4H	13.5	13.9	14.0	14.4	14.9	13.4	13.8	13.9	14.3	14.7
	6H	13.7	14.1	14.3	14.5	15.1	13.6	13.9	14.1	14.4	14.9
	8H	13.7	14.0	14.3	14.5	15.1	13.6	13.9	14.1	14.4	14.9

Maximum UGR = 15.1

POLAR GRAPH



Maximum Candela = 10682.314 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.)