

IES INDOOR REPORT

PHOTOMETRIC FILENAME : W6CR-XX-L50-830-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-L50-830-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	4588
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
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	17872	17871	17505
55	10685	10507	10200
65	6335	6237	6074
75	4175	4129	4062
85	1023	1023	1013

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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	11364.166	11364.166	11364.166	11364.166	11364.166
1	11313.210	11317.502	11325.265	11334.999	11336.901
2	11169.393	11185.170	11217.193	11252.438	11262.906
3	10935.084	10966.973	11036.478	11112.443	11134.132
4	10614.943	10665.381	10780.131	10890.690	10923.448
5	10213.659	10279.007	10428.351	10568.462	10605.259
6	9739.266	9814.965	9980.938	10141.351	10179.584
7	9207.589	9285.692	9459.561	9617.220	9658.292
8	8625.491	8704.378	8869.666	9026.323	9058.462
9	8021.471	8098.622	8251.288	8397.710	8431.552
10	7426.450	7492.966	7634.980	7765.942	7802.605
11	6843.650	6898.112	7026.853	7143.974	7177.315
12	6287.948	6334.830	6450.147	6555.414	6579.773
13	5778.493	5816.042	5916.250	6012.334	6026.425
14	5306.002	5344.686	5428.649	5519.023	5517.137
15	4889.676	4913.969	4994.192	5060.407	5064.648
16	4496.157	4522.519	4600.906	4660.894	4674.234
17	4158.535	4184.780	4248.107	4296.191	4310.466
18	3868.295	3889.599	3946.348	3984.231	3999.942
19	3616.957	3636.741	3684.842	3715.679	3730.822
20	3404.370	3421.817	3460.150	3490.102	3494.143
21	3221.267	3234.740	3265.194	3293.777	3293.293
22	3065.011	3072.892	3096.516	3122.294	3128.188
23	2931.629	2933.031	2952.732	2970.096	2979.946
24	2808.681	2807.880	2824.692	2834.626	2846.764
25	2698.539	2695.968	2705.117	2710.076	2717.923
26	2592.704	2587.362	2588.731	2590.968	2593.105
27	2485.885	2475.400	2469.857	2467.386	2468.989
28	2368.146	2355.007	2339.630	2340.798	2339.312
29	2231.307	2219.704	2193.775	2184.693	2185.444
30	2086.104	2064.316	2032.861	2014.563	2021.091
31	1905.907	1886.189	1855.586	1837.955	1831.611
32	1704.773	1688.878	1661.597	1648.174	1641.395
33	1487.460	1476.341	1460.046	1454.720	1454.152
34	1265.607	1260.431	1257.793	1265.323	1273.654
35	1051.701	1053.020	1061.918	1083.189	1097.263
36	858.931	863.172	884.208	911.690	926.215
37	690.037	698.735	724.998	756.269	766.687
38	552.831	571.346	590.880	621.400	627.144
39	458.867	471.606	488.519	513.161	514.180
40	377.174	386.457	407.811	425.425	432.621
41	327.221	333.632	345.419	355.987	359.193
42	292.744	296.033	302.728	308.137	309.406
43	266.899	268.518	271.523	273.427	272.475
44	246.647	247.031	248.283	247.365	246.430
45	229.417	229.701	229.400	227.664	224.708
46	214.173	213.890	212.721	210.283	208.096
47	199.798	199.448	197.778	195.307	193.220
48	186.358	185.974	184.154	181.550	179.563
49	173.636	173.185	171.382	168.811	166.874
50	161.498	160.997	159.311	156.790	155.004
51	150.162	149.611	147.958	145.621	143.901
52	139.393	138.892	137.273	135.136	133.449
53	129.409	128.908	127.439	125.419	123.766

IES INDOOR REPORT**PHOTOMETRIC FILENAME : W6CR-XX-L50-830-XXX-DIM-UNV-N-XXX_.IES****CANDELA TABULATION - (Cont.)**

54	120.126	119.609	118.189	116.269	114.683
55	111.261	110.743	109.407	107.554	106.202
56	102.562	102.078	100.843	99.190	97.937
57	94.331	93.914	92.728	91.242	90.141
58	86.818	86.417	85.382	83.963	83.045
59	79.806	79.422	78.537	77.235	76.400
60	73.395	73.061	72.209	71.107	70.323
61	67.534	67.201	66.449	65.414	64.646
62	62.192	61.824	61.157	60.288	59.537
63	57.233	56.966	56.332	55.580	54.862
64	52.692	52.425	51.890	51.189	50.572
65	48.601	48.284	47.850	47.199	46.598
66	44.695	44.444	44.027	43.476	42.925
67	41.122	40.888	40.537	40.053	39.569
68	37.883	37.632	37.332	36.881	36.447
69	34.744	34.594	34.276	33.909	33.475
70	31.889	31.705	31.455	31.121	30.737
71	29.184	29.001	28.800	28.500	28.166
72	26.663	26.463	26.296	26.012	25.745
73	24.209	24.042	23.892	23.658	23.424
74	21.871	21.738	21.588	21.404	21.187
75	19.618	19.517	19.400	19.267	19.083
76	17.414	17.347	17.263	17.147	17.013
77	15.277	15.243	15.193	15.143	15.026
78	13.173	13.140	13.156	13.123	13.073
79	11.086	11.086	11.136	11.186	11.119
80	9.016	9.032	9.083	9.216	9.149
81	6.812	6.879	6.912	7.029	6.962
82	3.940	4.040	4.174	4.191	4.241
83	1.937	1.953	2.120	2.221	2.387
84	1.770	1.753	1.753	1.770	1.753
85	1.619	1.636	1.619	1.619	1.603
86	1.453	1.453	1.453	1.453	1.436
87	1.235	1.235	1.235	1.235	1.219
88	0.968	0.968	0.952	0.952	0.952
89	0.634	0.634	0.634	0.634	0.634
90	0.334	0.367	0.384	0.401	0.417
91	0.334	0.334	0.334	0.334	0.317
92	0.334	0.351	0.351	0.334	0.334
93	0.351	0.351	0.351	0.351	0.334
94	0.351	0.351	0.351	0.351	0.351
95	0.367	0.367	0.367	0.351	0.351
96	0.384	0.384	0.384	0.367	0.367
97	0.384	0.401	0.401	0.384	0.384
98	0.417	0.417	0.417	0.401	0.401
99	0.451	0.434	0.434	0.434	0.434
100	0.451	0.434	0.434	0.434	0.451
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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Zone	Lumens	%Lamp	%Fixt
0-20	2305.74	N.A.	50.30
0-30	3545.93	N.A.	77.30
0-40	4230.25	N.A.	92.20
0-60	4515.59	N.A.	98.40
0-80	4584.75	N.A.	99.90
0-90	4587.53	N.A.	100.00
10-90	3685.86	N.A.	80.30
20-40	1924.51	N.A.	41.90
20-50	2111.00	N.A.	46.00
40-70	333.78	N.A.	7.30
60-80	69.16	N.A.	1.50
70-80	20.72	N.A.	0.50
80-90	2.78	N.A.	0.10
90-110	0.43	N.A.	0.00
90-120	0.43	N.A.	0.00
90-130	0.43	N.A.	0.00
90-150	0.43	N.A.	0.00
90-180	0.43	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	4587.97	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	901.67
10-20	1404.06
20-30	1240.2
30-40	684.32
40-50	186.49
50-60	98.86
60-70	48.44
70-80	20.72
80-90	2.78
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

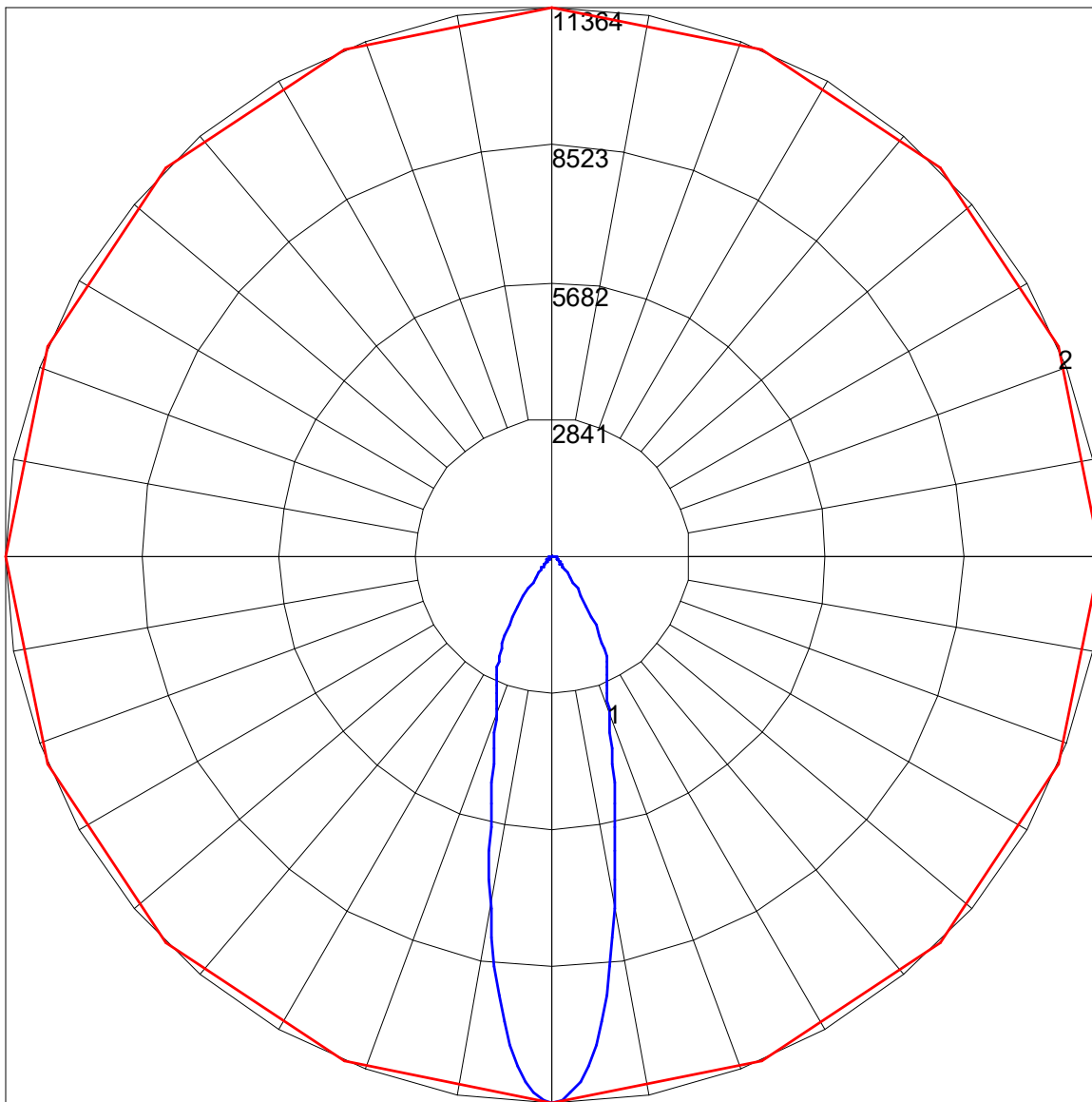
Reflectances

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	15.0	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	14.3	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	14.4	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 = 11364.166 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.)