

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : W6CR-XX-L60-840-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  
[ISSUE DATE] 2025-07-15  
[MANUFAC] H.E. WILLIAMS, INC.  
[LUMCAT] W6CR-xx-L60-840-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	5591
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	53.6
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	21781	21779	21334
55	13022	12805	12430
65	7720	7601	7402
75	5088	5032	4950
85	1248	1248	1234

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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	13849.423	13849.423	13849.423	13849.423	13849.423
1	13787.324	13792.554	13802.015	13813.877	13816.196
2	13612.055	13631.283	13670.309	13713.261	13726.019
3	13326.505	13365.368	13450.072	13542.651	13569.082
4	12936.351	12997.819	13137.664	13272.402	13312.323
5	12447.310	12526.948	12708.953	12879.705	12924.550
6	11869.170	11961.423	12163.693	12359.188	12405.782
7	11221.219	11316.403	11528.296	11720.433	11770.487
8	10511.820	10607.960	10809.395	11000.312	11039.480
9	9775.706	9869.730	10055.783	10234.226	10275.469
10	9050.558	9131.621	9304.693	9464.294	9508.976
11	8340.304	8406.677	8563.572	8706.307	8746.940
12	7663.074	7720.209	7860.746	7989.034	8018.720
13	7042.206	7087.966	7210.089	7327.186	7344.359
14	6466.385	6513.529	6615.854	6725.992	6723.693
15	5959.011	5988.616	6086.384	6167.080	6172.248
16	5479.432	5511.560	5607.089	5680.196	5696.453
17	5067.975	5099.960	5177.136	5235.736	5253.133
18	4714.262	4740.225	4809.384	4855.552	4874.699
19	4407.958	4432.069	4490.689	4528.270	4546.725
20	4148.880	4170.142	4216.859	4253.361	4258.286
21	3925.734	3942.154	3979.267	4014.101	4013.511
22	3735.306	3744.910	3773.701	3805.117	3812.299
23	3572.754	3574.463	3598.472	3619.633	3631.638
24	3422.918	3421.942	3442.431	3454.538	3469.330
25	3288.689	3285.556	3296.706	3302.749	3312.312
26	3159.709	3153.198	3154.867	3157.593	3160.198
27	3029.529	3016.751	3009.996	3006.984	3008.938
28	2886.042	2870.029	2851.289	2852.713	2850.902
29	2719.277	2705.136	2673.537	2662.469	2663.384
30	2542.319	2515.767	2477.433	2455.133	2463.088
31	2322.714	2298.684	2261.388	2239.902	2232.170
32	2077.594	2058.223	2024.976	2008.617	2000.356
33	1812.757	1799.206	1779.347	1772.856	1772.164
34	1542.386	1536.078	1532.863	1542.040	1552.193
35	1281.699	1283.307	1294.152	1320.074	1337.227
36	1046.773	1051.941	1077.578	1111.069	1128.771
37	840.942	851.543	883.549	921.659	934.356
38	673.731	696.295	720.101	757.296	764.295
39	559.218	574.742	595.354	625.386	626.627
40	459.660	470.972	496.996	518.462	527.232
41	398.781	406.595	420.960	433.839	437.746
42	356.765	360.773	368.932	375.525	377.071
43	325.267	327.241	330.904	333.223	332.063
44	300.587	301.055	302.581	301.461	300.322
45	279.588	279.934	279.568	277.452	273.851
46	261.012	260.666	259.241	256.271	253.605
47	243.493	243.066	241.031	238.019	235.476
48	227.113	226.645	224.428	221.253	218.832
49	211.609	211.060	208.862	205.729	203.368
50	196.817	196.206	194.151	191.079	188.902
51	183.001	182.330	180.315	177.467	175.371
52	169.877	169.267	167.293	164.689	162.634
53	157.710	157.099	155.309	152.847	150.832

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**CANDELA TABULATION - (Cont.)**

54	146.397	145.766	144.037	141.697	139.764
55	135.593	134.962	133.334	131.076	129.427
56	124.992	124.402	122.896	120.882	119.356
57	114.961	114.452	113.007	111.196	109.854
58	105.805	105.316	104.055	102.325	101.206
59	97.259	96.791	95.712	94.125	93.108
60	89.446	89.039	88.001	86.658	85.702
61	82.304	81.897	80.981	79.720	78.784
62	75.793	75.345	74.531	73.473	72.557
63	69.750	69.424	68.651	67.735	66.860
64	64.215	63.890	63.239	62.384	61.631
65	59.230	58.844	58.315	57.521	56.789
66	54.469	54.164	53.655	52.984	52.312
67	50.115	49.830	49.403	48.813	48.222
68	46.167	45.862	45.496	44.947	44.418
69	42.342	42.159	41.772	41.325	40.796
70	38.863	38.639	38.334	37.927	37.459
71	35.567	35.343	35.099	34.732	34.325
72	32.494	32.250	32.047	31.701	31.375
73	29.503	29.300	29.117	28.832	28.547
74	26.655	26.492	26.309	26.085	25.820
75	23.908	23.786	23.643	23.480	23.257
76	21.222	21.141	21.039	20.896	20.734
77	18.618	18.577	18.516	18.455	18.312
78	16.054	16.013	16.033	15.993	15.932
79	13.510	13.510	13.571	13.633	13.551
80	10.987	11.008	11.069	11.232	11.150
81	8.302	8.383	8.424	8.566	8.485
82	4.802	4.924	5.087	5.107	5.168
83	2.360	2.381	2.584	2.706	2.910
84	2.157	2.136	2.136	2.157	2.136
85	1.974	1.994	1.974	1.974	1.953
86	1.770	1.770	1.770	1.770	1.750
87	1.506	1.506	1.506	1.506	1.485
88	1.180	1.180	1.160	1.160	1.160
89	0.773	0.773	0.773	0.773	0.773
90	0.407	0.448	0.468	0.488	0.509
91	0.407	0.407	0.407	0.407	0.387
92	0.407	0.427	0.427	0.407	0.407
93	0.427	0.427	0.427	0.427	0.407
94	0.427	0.427	0.427	0.427	0.427
95	0.448	0.448	0.448	0.427	0.427
96	0.468	0.468	0.468	0.448	0.448
97	0.468	0.488	0.488	0.468	0.468
98	0.509	0.509	0.509	0.488	0.488
99	0.549	0.529	0.529	0.529	0.529
100	0.549	0.529	0.529	0.529	0.549
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	2809.98	N.A.	50.30
0-30	4321.4	N.A.	77.30
0-40	5155.37	N.A.	92.20
0-60	5503.12	N.A.	98.40
0-80	5587.4	N.A.	99.90
0-90	5590.79	N.A.	100.00
10-90	4491.93	N.A.	80.30
20-40	2345.39	N.A.	41.90
20-50	2572.66	N.A.	46.00
40-70	406.78	N.A.	7.30
60-80	84.28	N.A.	1.50
70-80	25.25	N.A.	0.50
80-90	3.39	N.A.	0.10
90-110	0.53	N.A.	0.00
90-120	0.53	N.A.	0.00
90-130	0.53	N.A.	0.00
90-150	0.53	N.A.	0.00
90-180	0.53	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	5591.32	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1098.86
10-20	1711.12
20-30	1511.42
30-40	833.97
40-50	227.27
50-60	120.47
60-70	59.03
70-80	25.25
80-90	3.39
90-100	0.50
100-110	0.03
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

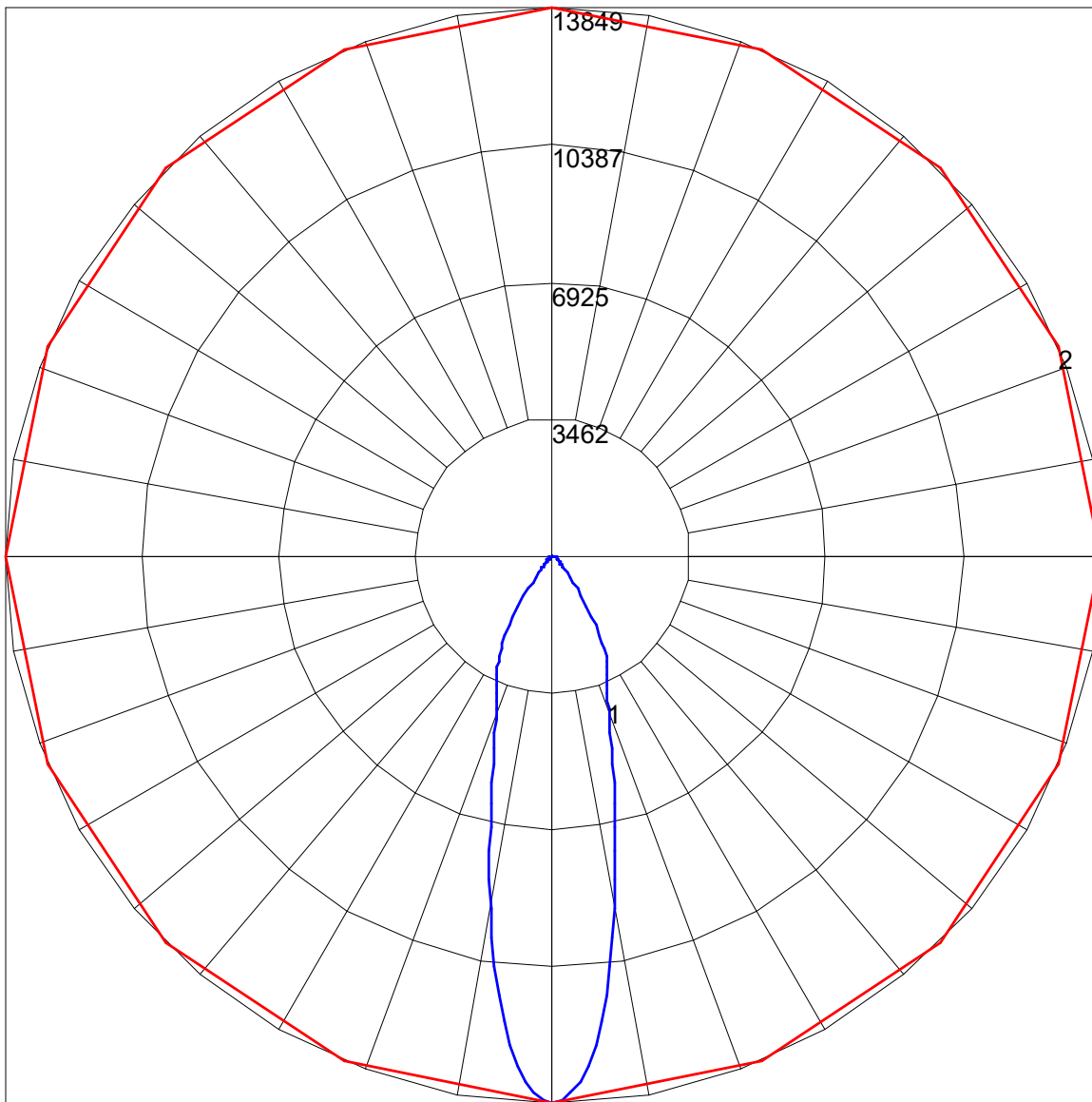
### Reflectances

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	13.1	14.1	13.4	14.4	14.7	12.9	13.8	13.2	14.2	14.5
	3H	13.8	14.7	14.2	15.0	15.4	13.6	14.5	14.0	14.8	15.2
	4H	14.1	14.9	14.5	15.2	15.6	13.8	14.6	14.2	15.0	15.4
	6H	14.2	14.9	14.6	15.3	15.6	14.0	14.7	14.4	15.1	15.4
	8H	14.1	14.8	14.5	15.2	15.6	13.9	14.6	14.3	15.0	15.4
	12H	14.1	14.7	14.5	15.1	15.5	13.9	14.5	14.3	14.9	15.3
4H	2H	13.2	14.0	13.6	14.4	14.8	13.0	13.8	13.4	14.2	14.6
	3H	14.2	14.8	14.6	15.2	15.6	14.0	14.6	14.4	15.0	15.4
	4H	14.5	15.0	14.9	15.5	15.9	14.3	14.9	14.7	15.3	15.7
	6H	14.6	15.1	15.1	15.6	16.0	14.5	14.9	14.9	15.4	15.9
	8H	14.6	15.0	15.1	15.5	16.0	14.4	14.9	14.9	15.3	15.8
	12H	14.5	14.9	15.0	15.4	15.9	14.4	14.8	14.9	15.3	15.7
8H	4H	14.5	14.9	15.0	15.4	15.9	14.3	14.8	14.8	15.2	15.7
	6H	14.7	15.0	15.2	15.6	16.0	14.5	14.9	15.0	15.4	15.9
	8H	14.7	15.0	15.2	15.5	16.0	14.5	14.8	15.1	15.4	15.9
	12H	14.6	14.9	15.1	15.4	16.0	14.5	14.7	15.0	15.2	15.8
12H	4H	14.4	14.8	14.9	15.3	15.8	14.3	14.7	14.8	15.2	15.6
	6H	14.6	15.0	15.2	15.4	16.0	14.5	14.8	15.0	15.3	15.8
	8H	14.6	14.9	15.2	15.4	16.0	14.5	14.8	15.0	15.3	15.8

Maximum UGR = 16.0

POLAR GRAPH



Maximum Candela = 13849.423 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.)