

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : W6CR-XX-L50-840-XXX-DIM-UNV-S-XXX\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] W6CR\_Angela-S\_(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-S-xxx  
[LUMINAIRE] 6 INCH ROUND WET LOCATION LED  
[MORE] CYLINDER WITH SPOT DISTRIBUTION  
[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	5166
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	45
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.34
Spacing Criterion (90-270)	0.34
Spacing Criterion (Diagonal)	0.32
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	5576	5731	5805
55	6328	6152	6029
65	4673	4591	4459
75	3303	3307	3246
85	906	928	906

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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	27922.934	27922.934	27922.934	27922.934	27922.934
1	28349.870	28363.636	28308.437	28282.678	28235.223
2	29322.738	29357.235	29176.480	29076.679	28892.208
3	30193.885	30256.151	29950.844	29757.282	29422.977
4	30244.646	30337.834	29948.551	29711.836	29233.280
5	29011.359	29101.579	28740.147	28494.797	27968.867
6	26486.283	26587.063	26329.633	26139.529	25640.494
7	23075.217	23153.425	23046.471	22949.555	22549.983
8	19263.058	19355.876	19360.515	19419.862	19109.140
9	15616.037	15711.602	15835.172	15980.656	15781.527
10	12472.927	12571.783	12757.382	12950.387	12833.447
11	9904.682	10007.654	10219.317	10418.581	10351.457
12	7908.772	8008.944	8196.668	8388.526	8331.356
13	6404.493	6494.762	6659.747	6824.883	6763.073
14	5274.028	5405.846	5517.236	5646.846	5562.987
15	4471.928	4469.297	4623.991	4728.195	4708.069
16	3760.774	3813.137	3914.489	3996.526	3950.118
17	3275.064	3316.985	3400.540	3462.064	3422.032
18	2910.124	2943.998	3008.862	3059.606	3029.088
19	2642.521	2667.809	2718.283	2759.259	2733.972
20	2444.152	2465.880	2503.128	2542.417	2511.107
21	2314.458	2317.259	2353.815	2383.826	2347.860
22	2206.510	2215.181	2228.407	2259.008	2236.167
23	2131.255	2138.036	2146.505	2167.845	2144.936
24	2070.811	2073.578	2078.706	2089.519	2070.423
25	2019.679	2021.417	2020.405	2024.183	2001.325
26	1970.960	1969.290	1958.443	1960.737	1933.526
27	1915.594	1908.154	1890.846	1888.130	1861.881
28	1845.332	1835.480	1807.173	1798.468	1778.326
29	1754.050	1741.584	1704.251	1688.326	1671.659
30	1634.968	1620.342	1578.623	1559.392	1538.609
31	1485.267	1470.911	1430.508	1412.947	1387.828
32	1312.725	1300.849	1266.485	1256.465	1233.977
33	1119.737	1113.579	1091.952	1090.721	1078.828
34	920.254	919.899	914.315	926.141	923.088
35	726.557	732.545	741.503	766.150	768.680
36	553.306	565.216	586.202	618.288	622.218
37	409.290	418.535	444.160	479.670	487.397
38	283.089	297.833	331.370	366.408	373.797
39	205.101	216.369	240.223	271.280	280.069
40	142.902	154.559	179.628	199.129	203.532
41	109.889	117.902	132.932	151.438	152.096
42	91.214	96.022	104.777	114.359	117.345
43	80.620	83.353	88.194	93.896	94.672
44	74.867	76.234	78.798	81.919	81.446
45	71.578	72.455	73.568	75.289	74.513
46	69.655	70.346	70.717	71.848	71.004
47	68.507	69.081	69.014	69.891	69.081
48	67.833	68.221	67.934	68.592	67.850
49	67.394	67.647	67.208	67.664	66.922
50	67.090	67.192	66.601	66.939	66.129
51	66.905	66.922	66.129	66.314	65.437
52	66.837	66.736	65.724	65.775	64.864
53	66.820	66.567	65.387	65.319	64.341

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**CANDELA TABULATION - (Cont.)**

54	66.719	66.314	64.982	64.746	63.716
55	65.893	65.454	64.054	63.716	62.772
56	64.341	63.885	62.418	61.979	61.270
57	62.181	61.878	60.275	59.836	59.212
58	59.702	59.448	57.812	57.323	56.969
59	56.716	56.547	54.911	54.472	54.202
60	53.359	53.240	51.739	51.334	51.064
61	49.833	49.681	48.382	48.028	47.623
62	46.189	46.003	44.957	44.654	44.063
63	42.613	42.326	41.567	41.297	40.571
64	39.137	38.817	38.311	38.058	37.231
65	35.848	35.578	35.224	35.004	34.212
66	32.744	32.575	32.339	32.170	31.394
67	29.994	29.876	29.741	29.572	28.931
68	27.565	27.464	27.413	27.244	26.688
69	25.338	25.321	25.271	25.169	24.663
70	23.331	23.381	23.364	23.280	22.825
71	21.559	21.593	21.593	21.542	21.138
72	19.940	19.974	19.957	19.923	19.518
73	18.405	18.438	18.422	18.388	18.050
74	16.937	16.971	16.954	16.954	16.650
75	15.520	15.537	15.537	15.554	15.250
76	14.103	14.154	14.154	14.170	13.901
77	12.720	12.753	12.787	12.804	12.602
78	11.303	11.303	11.370	11.404	11.286
79	9.818	9.818	9.936	9.987	9.869
80	8.232	8.249	8.350	8.469	8.367
81	6.360	6.495	6.512	6.647	6.545
82	3.644	3.796	3.931	3.964	3.964
83	1.721	1.754	1.906	2.007	2.075
84	1.569	1.569	1.586	1.586	1.535
85	1.434	1.451	1.468	1.468	1.434
86	1.299	1.299	1.299	1.299	1.282
87	1.097	1.113	1.113	1.097	1.080
88	0.860	0.860	0.877	0.860	0.843
89	0.574	0.557	0.574	0.574	0.557
90	0.287	0.321	0.337	0.371	0.337
91	0.287	0.287	0.304	0.304	0.287
92	0.304	0.287	0.304	0.304	0.287
93	0.304	0.287	0.304	0.304	0.304
94	0.321	0.304	0.321	0.321	0.304
95	0.321	0.321	0.321	0.321	0.321
96	0.321	0.321	0.321	0.321	0.321
97	0.337	0.337	0.321	0.337	0.321
98	0.337	0.354	0.337	0.337	0.337
99	0.337	0.354	0.354	0.354	0.337
100	0.371	0.354	0.354	0.371	0.337
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	3581.55	N.A.	69.30
0-30	4507.33	N.A.	87.20
0-40	4988.55	N.A.	96.60
0-60	5111.38	N.A.	98.90
0-80	5163.5	N.A.	99.90
0-90	5166.05	N.A.	100.00
10-90	3021.81	N.A.	58.50
20-40	1407.00	N.A.	27.20
20-50	1473.94	N.A.	28.50
40-70	158.49	N.A.	3.10
60-80	52.12	N.A.	1.00
70-80	16.46	N.A.	0.30
80-90	2.55	N.A.	0.00
90-110	0.37	N.A.	0.00
90-120	0.37	N.A.	0.00
90-130	0.37	N.A.	0.00
90-150	0.37	N.A.	0.00
90-180	0.37	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	5166.43	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	2144.24
10-20	1437.31
20-30	925.78
30-40	481.23
40-50	66.94
50-60	55.89
60-70	35.67
70-80	16.46
80-90	2.55
90-100	0.35
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	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	96	95	94	92
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89
4	103	98	93	90	102	97	93	90	95	91	89	93	90	88	91	89	87	85
5	100	94	89	86	99	93	89	86	91	88	85	90	87	84	88	86	84	83
6	97	90	86	83	96	90	86	83	88	85	82	87	84	81	86	83	81	80
7	94	87	83	80	93	87	83	80	86	82	79	85	81	79	84	81	78	77
8	91	84	80	77	90	84	80	77	83	79	77	82	79	76	81	78	76	75
9	89	82	78	75	88	82	78	75	81	77	75	80	77	74	79	76	74	73
10	87	80	76	73	86	79	75	73	79	75	72	78	75	72	77	74	72	71

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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

X=2H	Y=2H	9.4	10.4	9.8	10.7	11.0	UGR Viewed Endwise				
	3H	10.3	11.1	10.7	11.5	11.8	9.2	10.1	9.5	10.4	10.7
	4H	10.6	11.4	11.0	11.7	12.1	10.1	10.9	10.5	11.2	11.6
	6H	10.8	11.5	11.2	11.9	12.3	10.4	11.2	10.8	11.5	11.9
	8H	10.8	11.4	11.2	11.8	12.2	10.6	11.3	11.0	11.7	12.1
	12H	10.7	11.3	11.2	11.7	12.2	10.6	11.2	11.0	11.6	12.0

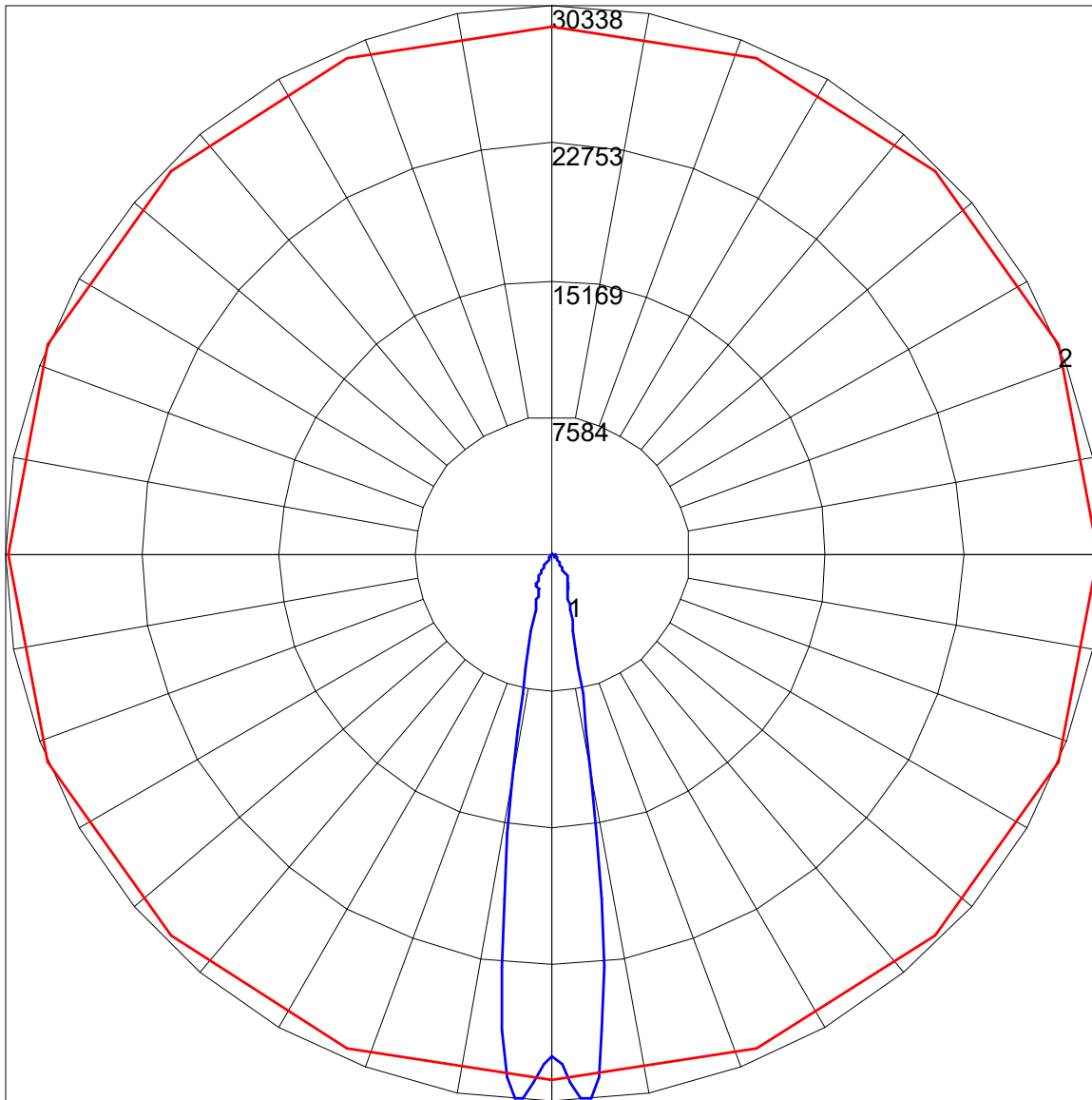
4H	2H	9.6	10.4	10.1	10.8	11.2	10.5	11.1	10.9	11.5	12.0
	3H	10.7	11.3	11.1	11.7	12.1	11.0	11.5	11.4	11.9	12.4
	4H	11.1	11.7	11.6	12.1	12.5	11.2	11.7	11.7	12.2	12.6
	6H	11.4	11.9	11.9	12.3	12.8	11.2	11.7	11.7	12.1	12.6
	8H	11.4	11.8	11.8	12.3	12.7	11.2	11.6	11.7	12.1	12.5
	12H	11.3	11.7	11.8	12.2	12.7					

8H	4H	11.2	11.6	11.6	12.1	12.5	11.0	11.5	11.5	11.9	12.4
	6H	11.5	11.9	12.0	12.4	12.9	11.4	11.7	11.9	12.3	12.7
	8H	11.5	11.8	12.1	12.4	12.9	11.4	11.7	12.0	12.2	12.7
	12H	11.5	11.8	12.0	12.2	12.8	11.4	11.6	11.9	12.1	12.7

12H	4H	11.1	11.5	11.6	12.0	12.5	11.0	11.4	11.5	11.9	12.3
	6H	11.5	11.8	12.0	12.3	12.8	11.4	11.7	11.9	12.2	12.7
	8H	11.5	11.8	12.0	12.3	12.9	11.4	11.7	11.9	12.2	12.7

Maximum UGR = 12.9

POLAR GRAPH



Maximum Candela = 30337.834 Located At Horizontal Angle = 22.5, Vertical Angle = 4  
# 1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (4) (Through Max. Cd.)