

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : W6CR-XX-L70-930-RDB-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  
[ISSUE DATE] 2025-07-15  
[MANUFAC] H.E. WILLIAMS, INC.  
[LUMCAT] W6CR-xx-L70-930-RDB-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	6665
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	63.7
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	7194	7394	7489
55	8164	7936	7778
65	6028	5923	5753
75	4262	4266	4187
85	1169	1196	1169

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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	36023.858	36023.858	36023.858	36023.858	36023.858
1	36574.655	36592.415	36521.202	36487.970	36426.746
2	37829.769	37874.275	37641.079	37512.325	37274.334
3	38953.651	39033.981	38640.100	38390.382	37959.090
4	39019.138	39139.361	38637.141	38331.751	37714.358
5	37428.054	37544.447	37078.159	36761.628	36083.117
6	34170.410	34300.427	33968.313	33723.056	33079.242
7	29769.735	29870.632	29732.649	29607.616	29092.121
8	24851.603	24971.348	24977.333	25053.898	24653.030
9	20146.518	20269.808	20429.228	20616.919	20360.020
10	16091.537	16219.073	16458.518	16707.517	16556.651
11	12778.200	12911.046	13184.117	13441.190	13354.592
12	10203.243	10332.476	10574.663	10822.182	10748.426
13	8262.547	8379.004	8591.854	8804.899	8725.157
14	6804.114	6974.175	7117.882	7285.093	7176.905
15	5769.312	5765.917	5965.490	6099.925	6073.961
16	4851.839	4919.394	5050.150	5155.987	5096.115
17	4225.217	4279.300	4387.095	4466.468	4414.822
18	3754.401	3798.103	3881.784	3947.250	3907.879
19	3409.162	3441.787	3506.904	3559.768	3527.144
20	3153.242	3181.274	3229.329	3280.016	3239.623
21	2985.923	2989.536	3036.698	3075.415	3029.015
22	2846.656	2857.843	2874.906	2914.385	2884.917
23	2749.568	2758.317	2769.243	2796.774	2767.219
24	2671.589	2675.158	2681.774	2695.725	2671.088
25	2605.623	2607.864	2606.559	2611.434	2581.944
26	2542.769	2540.614	2526.620	2529.580	2494.475
27	2471.340	2461.743	2439.413	2435.909	2402.044
28	2380.694	2367.984	2331.465	2320.235	2294.249
29	2262.931	2246.847	2198.684	2178.139	2156.636
30	2109.300	2090.431	2036.609	2011.799	1984.986
31	1916.169	1897.648	1845.523	1822.867	1790.461
32	1693.569	1678.247	1633.914	1620.987	1591.976
33	1444.591	1436.648	1408.746	1407.158	1391.814
34	1187.235	1186.778	1179.574	1194.830	1190.891
35	937.343	945.070	956.626	988.423	991.688
36	713.830	729.195	756.269	797.664	802.735
37	528.032	539.959	573.018	618.831	628.799
38	365.218	384.239	427.506	472.709	482.241
39	264.604	279.142	309.916	349.983	361.322
40	184.361	199.400	231.741	256.899	262.580
41	141.769	152.107	171.498	195.373	196.222
42	117.677	123.879	135.175	147.537	151.389
43	104.009	107.535	113.781	121.137	122.138
44	96.588	98.350	101.659	105.685	105.075
45	92.344	93.475	94.912	97.132	96.131
46	89.863	90.755	91.234	92.692	91.604
47	88.383	89.123	89.036	90.167	89.123
48	87.512	88.013	87.643	88.491	87.534
49	86.946	87.273	86.707	87.294	86.337
50	86.554	86.685	85.923	86.359	85.314
51	86.315	86.337	85.314	85.553	84.422
52	86.228	86.097	84.792	84.857	83.682
53	86.206	85.880	84.356	84.269	83.007

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**CANDELA TABULATION - (Cont.)**

54	86.076	85.553	83.834	83.529	82.202
55	85.009	84.443	82.637	82.202	80.983
56	83.007	82.419	80.526	79.960	79.046
57	80.221	79.829	77.762	77.196	76.391
58	77.022	76.695	74.584	73.953	73.496
59	73.170	72.952	70.841	70.275	69.927
60	68.839	68.686	66.749	66.227	65.879
61	64.290	64.094	62.418	61.961	61.439
62	59.589	59.350	58.000	57.609	56.847
63	54.975	54.605	53.626	53.278	52.342
64	50.492	50.078	49.425	49.099	48.033
65	46.248	45.900	45.443	45.160	44.137
66	42.243	42.026	41.721	41.503	40.502
67	38.696	38.544	38.370	38.152	37.325
68	35.562	35.431	35.366	35.148	34.430
69	32.689	32.667	32.602	32.472	31.819
70	30.099	30.165	30.143	30.034	29.446
71	27.814	27.858	27.858	27.792	27.270
72	25.725	25.768	25.747	25.703	25.181
73	23.744	23.788	23.766	23.722	23.287
74	21.851	21.894	21.873	21.873	21.481
75	20.023	20.044	20.044	20.066	19.674
76	18.195	18.260	18.260	18.282	17.933
77	16.410	16.453	16.497	16.519	16.258
78	14.582	14.582	14.669	14.712	14.560
79	12.667	12.667	12.819	12.884	12.732
80	10.621	10.642	10.773	10.925	10.795
81	8.205	8.379	8.401	8.575	8.444
82	4.701	4.897	5.071	5.114	5.114
83	2.220	2.263	2.459	2.590	2.677
84	2.024	2.024	2.046	2.046	1.981
85	1.850	1.872	1.893	1.893	1.850
86	1.676	1.676	1.676	1.676	1.654
87	1.415	1.436	1.436	1.415	1.393
88	1.110	1.110	1.132	1.110	1.088
89	0.740	0.718	0.740	0.740	0.718
90	0.370	0.414	0.435	0.479	0.435
91	0.370	0.370	0.392	0.392	0.370
92	0.392	0.370	0.392	0.392	0.370
93	0.392	0.370	0.392	0.392	0.392
94	0.414	0.392	0.414	0.414	0.392
95	0.414	0.414	0.414	0.414	0.414
96	0.414	0.414	0.414	0.414	0.414
97	0.435	0.435	0.414	0.435	0.414
98	0.435	0.457	0.435	0.435	0.435
99	0.435	0.457	0.457	0.457	0.435
100	0.479	0.457	0.457	0.479	0.435
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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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

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : W6CR-XX-L70-930-RDB-XXX-DIM-UNV-S-XXX\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	4620.62	N.A.	69.30
0-30	5814.98	N.A.	87.20
0-40	6435.82	N.A.	96.60
0-60	6594.28	N.A.	98.90
0-80	6661.52	N.A.	99.90
0-90	6664.82	N.A.	100.00
10-90	3898.5	N.A.	58.50
20-40	1815.2	N.A.	27.20
20-50	1901.56	N.A.	28.50
40-70	204.47	N.A.	3.10
60-80	67.24	N.A.	1.00
70-80	21.23	N.A.	0.30
80-90	3.29	N.A.	0.00
90-110	0.48	N.A.	0.00
90-120	0.48	N.A.	0.00
90-130	0.48	N.A.	0.00
90-150	0.48	N.A.	0.00
90-180	0.48	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	6665.29	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	2766.32
10-20	1854.3
20-30	1194.36
30-40	620.84
40-50	86.36
50-60	72.10
60-70	46.01
70-80	21.23
80-90	3.29
90-100	0.45
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	94	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	77	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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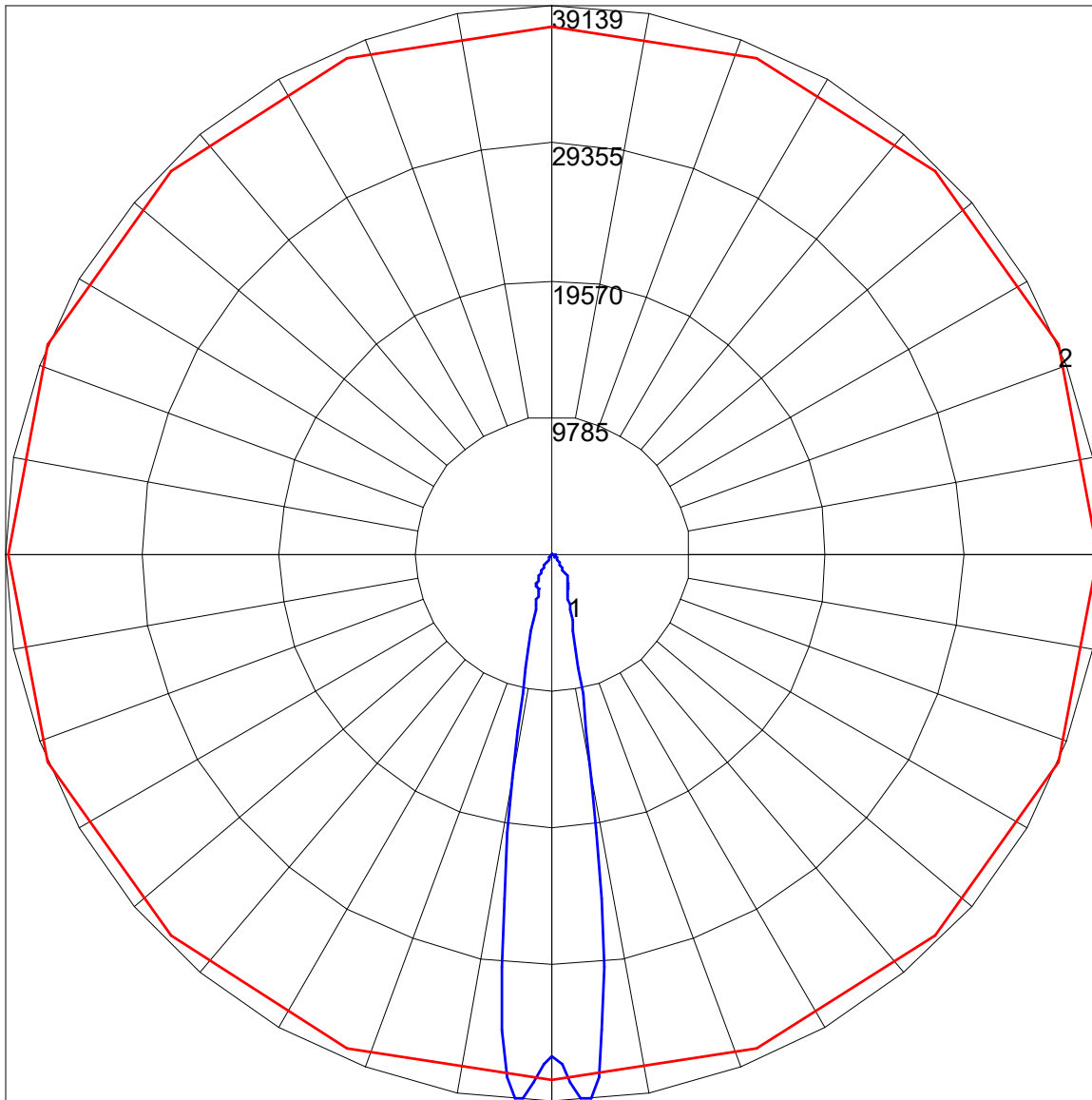
**UGR TABLE - CORRECTED**

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					UGR Viewed Endwise				
X=2H	Y=2H	10.2	11.2	10.6	11.5	11.8	10.0	10.9	10.3	11.2	11.5
	3H	11.1	11.9	11.5	12.3	12.6	10.9	11.7	11.3	12.0	12.4
	4H	11.4	12.2	11.8	12.5	12.9	11.2	12.0	11.6	12.3	12.7
	6H	11.6	12.3	12.0	12.7	13.1	11.4	12.1	11.8	12.5	12.9
	8H	11.6	12.2	12.0	12.6	13.0	11.4	12.0	11.8	12.4	12.8
	12H	11.5	12.1	12.0	12.5	13.0	11.3	12.0	11.8	12.3	12.8
4H	2H	10.4	11.2	10.9	11.6	12.0	10.2	11.0	10.6	11.3	11.7
	3H	11.5	12.1	11.9	12.5	12.9	11.3	11.9	11.7	12.3	12.8
	4H	11.9	12.5	12.4	12.9	13.3	11.8	12.3	12.2	12.7	13.2
	6H	12.2	12.7	12.7	13.1	13.6	12.0	12.5	12.5	13.0	13.4
	8H	12.2	12.6	12.6	13.1	13.5	12.0	12.5	12.5	12.9	13.4
	12H	12.1	12.5	12.6	13.0	13.5	12.0	12.4	12.5	12.9	13.3
8H	4H	12.0	12.4	12.5	12.9	13.3	11.8	12.3	12.3	12.7	13.2
	6H	12.3	12.7	12.8	13.2	13.7	12.2	12.5	12.7	13.1	13.5
	8H	12.3	12.6	12.9	13.2	13.7	12.2	12.5	12.8	13.0	13.5
	12H	12.3	12.6	12.8	13.1	13.6	12.2	12.4	12.7	12.9	13.5
12H	4H	11.9	12.3	12.4	12.8	13.3	11.8	12.2	12.3	12.7	13.1
	6H	12.3	12.6	12.8	13.1	13.6	12.2	12.5	12.7	13.0	13.5
	8H	12.3	12.6	12.8	13.1	13.7	12.2	12.5	12.7	13.0	13.5

Maximum UGR = 13.7



POLAR GRAPH



Maximum Candela = 39139.361 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.)