

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : W6CR-XX-L50-927-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-L50-927-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	4808
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
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	5190	5334	5402
55	5890	5725	5611
65	4349	4273	4150
75	3074	3078	3021
85	844	863	844

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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	25987.682	25987.682	25987.682	25987.682	25987.682
1	26385.028	26397.840	26346.467	26322.493	26278.327
2	27290.470	27322.576	27154.349	27061.465	26889.778
3	28101.241	28159.191	27875.044	27694.897	27383.762
4	28148.483	28235.212	27872.910	27652.601	27207.212
5	27000.672	27084.638	26748.257	26519.911	26030.432
6	24650.601	24744.396	24504.808	24327.879	23863.430
7	21475.945	21548.733	21449.192	21358.993	20987.113
8	17927.995	18014.380	18018.698	18073.931	17784.744
9	14533.738	14622.680	14737.685	14873.086	14687.758
10	11608.467	11700.471	11873.207	12052.835	11944.000
11	9218.219	9314.054	9511.048	9696.501	9634.029
12	7360.640	7453.869	7628.583	7807.144	7753.935
13	5960.617	6044.630	6198.181	6351.872	6294.346
14	4908.501	5031.184	5134.854	5255.480	5177.433
15	4161.993	4159.544	4303.517	4400.498	4381.768
16	3500.126	3548.860	3643.188	3719.540	3676.348
17	3048.080	3087.095	3164.859	3222.119	3184.862
18	2708.432	2739.959	2800.327	2847.554	2819.152
19	2459.377	2482.912	2529.887	2568.024	2544.489
20	2274.755	2294.977	2329.644	2366.210	2337.070
21	2154.050	2156.657	2190.680	2218.611	2185.137
22	2053.584	2061.654	2073.963	2102.443	2081.185
23	1983.544	1989.856	1997.737	2017.598	1996.277
24	1927.289	1929.864	1934.637	1944.701	1926.928
25	1879.701	1881.319	1880.377	1883.893	1862.619
26	1834.359	1832.804	1822.709	1824.844	1799.519
27	1782.830	1775.906	1759.797	1757.270	1732.840
28	1717.438	1708.269	1681.923	1673.822	1655.076
29	1632.483	1620.880	1586.135	1571.314	1555.802
30	1521.653	1508.041	1469.214	1451.315	1431.973
31	1382.328	1368.967	1331.364	1315.020	1291.642
32	1221.744	1210.691	1178.709	1169.383	1148.454
33	1042.131	1036.400	1016.272	1015.126	1004.058
34	856.474	856.144	850.947	861.953	859.111
35	676.201	681.775	690.112	713.050	715.405
36	514.958	526.043	545.574	575.436	579.094
37	380.924	389.527	413.376	446.426	453.617
38	263.469	277.191	308.403	341.013	347.890
39	190.886	201.374	223.574	252.478	260.658
40	132.998	143.847	167.178	185.328	189.426
41	102.273	109.730	123.719	140.943	141.555
42	84.892	89.367	97.515	106.433	109.212
43	75.032	77.576	82.082	87.389	88.111
44	69.678	70.950	73.337	76.241	75.802
45	66.617	67.433	68.470	70.071	69.349
46	64.827	65.471	65.816	66.868	66.083
47	63.759	64.293	64.230	65.047	64.293
48	63.131	63.492	63.226	63.838	63.147
49	62.723	62.959	62.550	62.974	62.284
50	62.441	62.535	61.985	62.299	61.546
51	62.268	62.284	61.546	61.718	60.902
52	62.205	62.111	61.169	61.216	60.368
53	62.189	61.954	60.855	60.792	59.881

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**CANDELA TABULATION - (Cont.)**

54	62.095	61.718	60.478	60.258	59.300
55	61.326	60.918	59.614	59.300	58.421
56	59.881	59.457	58.092	57.683	57.024
57	57.872	57.589	56.098	55.689	55.108
58	55.564	55.328	53.805	53.350	53.020
59	52.785	52.628	51.105	50.697	50.445
60	49.660	49.551	48.153	47.776	47.525
61	46.379	46.238	45.029	44.699	44.322
62	42.988	42.815	41.842	41.559	41.009
63	39.659	39.392	38.686	38.435	37.760
64	36.425	36.127	35.656	35.420	34.651
65	33.363	33.112	32.782	32.578	31.840
66	30.475	30.318	30.098	29.941	29.218
67	27.915	27.805	27.680	27.523	26.926
68	25.654	25.560	25.513	25.356	24.838
69	23.582	23.566	23.519	23.425	22.954
70	21.714	21.761	21.745	21.667	21.243
71	20.065	20.097	20.097	20.049	19.673
72	18.558	18.589	18.574	18.542	18.165
73	17.129	17.161	17.145	17.113	16.799
74	15.763	15.795	15.779	15.779	15.496
75	14.444	14.460	14.460	14.476	14.193
76	13.126	13.173	13.173	13.188	12.937
77	11.838	11.870	11.901	11.917	11.728
78	10.519	10.519	10.582	10.613	10.504
79	9.138	9.138	9.248	9.295	9.185
80	7.662	7.678	7.772	7.882	7.787
81	5.919	6.045	6.060	6.186	6.092
82	3.391	3.533	3.658	3.690	3.690
83	1.601	1.633	1.774	1.868	1.931
84	1.460	1.460	1.476	1.476	1.429
85	1.335	1.350	1.366	1.366	1.335
86	1.209	1.209	1.209	1.209	1.193
87	1.021	1.036	1.036	1.021	1.005
88	0.801	0.801	0.816	0.801	0.785
89	0.534	0.518	0.534	0.534	0.518
90	0.267	0.298	0.314	0.345	0.314
91	0.267	0.267	0.283	0.283	0.267
92	0.283	0.267	0.283	0.283	0.267
93	0.283	0.267	0.283	0.283	0.283
94	0.298	0.283	0.298	0.298	0.283
95	0.298	0.298	0.298	0.298	0.298
96	0.298	0.298	0.298	0.298	0.298
97	0.314	0.314	0.298	0.314	0.298
98	0.314	0.330	0.314	0.314	0.314
99	0.314	0.330	0.330	0.330	0.314
100	0.345	0.330	0.330	0.345	0.314
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	3333.32	N.A.	69.30
0-30	4194.94	N.A.	87.20
0-40	4642.81	N.A.	96.60
0-60	4757.13	N.A.	98.90
0-80	4805.64	N.A.	99.90
0-90	4808.01	N.A.	100.00
10-90	2812.38	N.A.	58.50
20-40	1309.49	N.A.	27.20
20-50	1371.79	N.A.	28.50
40-70	147.51	N.A.	3.10
60-80	48.51	N.A.	1.00
70-80	15.32	N.A.	0.30
80-90	2.38	N.A.	0.00
90-110	0.34	N.A.	0.00
90-120	0.34	N.A.	0.00
90-130	0.34	N.A.	0.00
90-150	0.34	N.A.	0.00
90-180	0.34	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	4808.36	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1995.63
10-20	1337.69
20-30	861.61
30-40	447.87
40-50	62.30
50-60	52.02
60-70	33.19
70-80	15.32
80-90	2.38
90-100	0.33
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	9.1	10.1	9.5	10.4	10.7	8.9	9.8	9.2	10.1	10.4
	3H	10.0	10.8	10.4	11.2	11.5	9.8	10.6	10.2	10.9	11.3
	4H	10.3	11.1	10.7	11.4	11.8	10.1	10.9	10.5	11.2	11.6
	6H	10.5	11.2	10.9	11.6	12.0	10.3	11.0	10.7	11.4	11.8
	8H	10.5	11.1	10.9	11.5	11.9	10.3	10.9	10.7	11.3	11.7
	12H	10.4	11.0	10.9	11.4	11.9	10.2	10.9	10.7	11.2	11.7

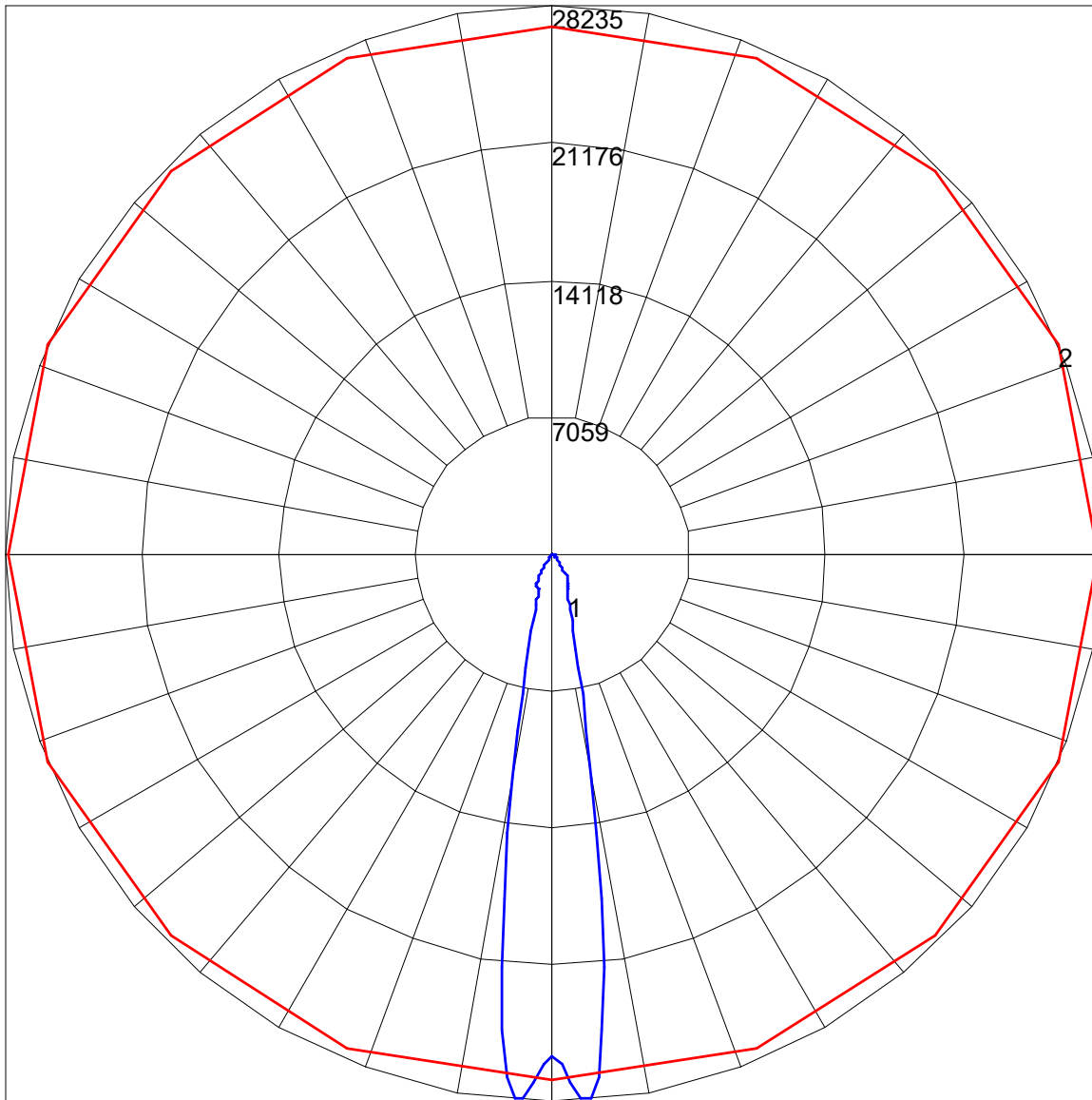
### UGR Viewed Endwise

4H	2H	9.3	10.1	9.8	10.5	10.9	9.1	9.9	9.5	10.2	10.6
	3H	10.4	11.0	10.8	11.4	11.8	10.2	10.8	10.6	11.2	11.7
	4H	10.8	11.4	11.3	11.8	12.2	10.7	11.2	11.1	11.6	12.1
	6H	11.1	11.6	11.6	12.0	12.5	10.9	11.4	11.4	11.9	12.3
	8H	11.1	11.5	11.5	12.0	12.4	10.9	11.4	11.4	11.8	12.3
	12H	11.0	11.4	11.5	11.9	12.4	10.9	11.3	11.4	11.8	12.2
8H	4H	10.9	11.3	11.4	11.8	12.2	10.7	11.2	11.2	11.6	12.1
	6H	11.2	11.6	11.7	12.1	12.6	11.1	11.4	11.6	12.0	12.4
	8H	11.2	11.5	11.8	12.1	12.6	11.1	11.4	11.7	11.9	12.4
	12H	11.2	11.5	11.7	12.0	12.5	11.1	11.3	11.6	11.8	12.4
12H	4H	10.8	11.2	11.3	11.7	12.2	10.7	11.1	11.2	11.6	12.0
	6H	11.2	11.5	11.7	12.0	12.5	11.1	11.4	11.6	11.9	12.4
	8H	11.2	11.5	11.7	12.0	12.6	11.1	11.4	11.6	11.9	12.4

Maximum UGR = 12.6



POLAR GRAPH



Maximum Candela = 28235.212 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.)