

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : W6CR-XX-L50-850-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-L50-850-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	5064
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
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	5466	5618	5690
55	6203	6030	5909
65	4580	4500	4371
75	3238	3241	3181
85	889	910	889

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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	27370.008	27370.008	27370.008	27370.008	27370.008
1	27788.490	27801.983	27747.878	27722.629	27676.113
2	28742.094	28775.908	28598.732	28500.907	28320.088
3	29595.990	29657.023	29357.762	29168.033	28840.348
4	29645.745	29737.088	29355.514	29123.487	28654.407
5	28436.880	28525.313	28171.039	27930.547	27415.032
6	25961.806	26060.589	25808.257	25621.918	25132.764
7	22618.285	22694.944	22590.108	22495.111	22103.451
8	18881.614	18972.593	18977.141	19035.312	18730.743
9	15306.810	15400.483	15521.606	15664.209	15469.024
10	12225.939	12322.838	12504.762	12693.945	12579.321
11	9708.550	9809.484	10016.955	10212.274	10146.479
12	7752.164	7850.352	8034.359	8222.418	8166.379
13	6277.672	6366.154	6527.872	6689.738	6629.152
14	5169.592	5298.801	5407.985	5535.028	5452.829
15	4383.376	4380.797	4532.427	4634.568	4614.841
16	3686.303	3737.630	3836.975	3917.388	3871.898
17	3210.212	3251.303	3333.203	3393.508	3354.269
18	2852.498	2885.702	2949.281	2999.020	2969.107
19	2590.195	2614.982	2664.456	2704.621	2679.834
20	2395.753	2417.051	2453.562	2492.073	2461.383
21	2268.628	2271.373	2307.205	2336.622	2301.368
22	2162.817	2171.316	2184.280	2214.276	2191.887
23	2089.052	2095.699	2104.000	2124.918	2102.462
24	2029.805	2032.517	2037.544	2048.143	2029.425
25	1979.686	1981.389	1980.397	1984.101	1961.695
26	1931.931	1930.294	1919.662	1921.911	1895.239
27	1877.661	1870.369	1853.404	1850.741	1825.012
28	1808.791	1799.134	1771.387	1762.855	1743.112
29	1719.317	1707.097	1670.504	1654.894	1638.557
30	1602.592	1588.256	1547.364	1528.513	1508.141
31	1455.856	1441.784	1402.182	1384.968	1360.347
32	1286.730	1275.089	1241.406	1231.584	1209.542
33	1097.564	1091.528	1070.330	1069.123	1057.465
34	902.031	901.684	896.210	907.802	904.809
35	712.170	718.040	726.820	750.979	753.459
36	542.349	554.024	574.594	606.044	609.897
37	401.186	410.247	435.365	470.172	477.745
38	277.483	291.935	324.808	359.152	366.395
39	201.039	212.085	235.466	265.908	274.523
40	140.073	151.499	176.071	195.186	199.501
41	107.713	115.567	130.300	148.440	149.085
42	89.408	94.120	102.702	112.094	115.021
43	79.023	81.702	86.448	92.037	92.798
44	73.385	74.724	77.238	80.297	79.834
45	70.160	71.020	72.112	73.798	73.038
46	68.275	68.953	69.317	70.425	69.598
47	67.151	67.713	67.647	68.507	67.713
48	66.489	66.870	66.589	67.234	66.506
49	66.060	66.308	65.878	66.324	65.597
50	65.762	65.861	65.282	65.613	64.819
51	65.580	65.597	64.819	65.001	64.141
52	65.514	65.415	64.423	64.472	63.579
53	65.497	65.249	64.092	64.026	63.067

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**CANDELA TABULATION - (Cont.)**

54	65.398	65.001	63.695	63.463	62.455
55	64.588	64.158	62.785	62.455	61.529
56	63.067	62.620	61.182	60.752	60.057
57	60.950	60.652	59.082	58.652	58.040
58	58.519	58.271	56.667	56.188	55.841
59	55.593	55.427	53.823	53.393	53.129
60	52.302	52.186	50.715	50.318	50.053
61	48.846	48.697	47.424	47.077	46.680
62	45.274	45.092	44.067	43.770	43.191
63	41.769	41.488	40.744	40.479	39.768
64	38.362	38.048	37.552	37.304	36.494
65	35.138	34.873	34.526	34.311	33.534
66	32.096	31.930	31.699	31.533	30.773
67	29.400	29.284	29.152	28.987	28.358
68	27.019	26.920	26.870	26.705	26.159
69	24.836	24.820	24.770	24.671	24.175
70	22.869	22.918	22.902	22.819	22.373
71	21.132	21.166	21.166	21.116	20.719
72	19.545	19.578	19.562	19.528	19.132
73	18.040	18.073	18.057	18.024	17.693
74	16.602	16.635	16.618	16.618	16.321
75	15.213	15.229	15.229	15.246	14.948
76	13.824	13.873	13.873	13.890	13.625
77	12.468	12.501	12.534	12.550	12.352
78	11.079	11.079	11.145	11.178	11.062
79	9.624	9.624	9.739	9.789	9.673
80	8.069	8.086	8.185	8.301	8.202
81	6.234	6.366	6.383	6.515	6.416
82	3.572	3.720	3.853	3.886	3.886
83	1.687	1.720	1.869	1.968	2.034
84	1.538	1.538	1.554	1.554	1.505
85	1.406	1.422	1.439	1.439	1.406
86	1.273	1.273	1.273	1.273	1.257
87	1.075	1.091	1.091	1.075	1.058
88	0.843	0.843	0.860	0.843	0.827
89	0.562	0.546	0.562	0.562	0.546
90	0.281	0.314	0.331	0.364	0.331
91	0.281	0.281	0.298	0.298	0.281
92	0.298	0.281	0.298	0.298	0.281
93	0.298	0.281	0.298	0.298	0.298
94	0.314	0.298	0.314	0.314	0.298
95	0.314	0.314	0.314	0.314	0.314
96	0.314	0.314	0.314	0.314	0.314
97	0.331	0.331	0.314	0.331	0.314
98	0.331	0.347	0.331	0.331	0.331
99	0.331	0.347	0.347	0.347	0.331
100	0.364	0.347	0.347	0.364	0.331
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	3510.63	N.A.	69.30
0-30	4418.07	N.A.	87.20
0-40	4889.77	N.A.	96.60
0-60	5010.16	N.A.	98.90
0-80	5061.26	N.A.	99.90
0-90	5063.76	N.A.	100.00
10-90	2961.98	N.A.	58.50
20-40	1379.14	N.A.	27.20
20-50	1444.75	N.A.	28.50
40-70	155.35	N.A.	3.10
60-80	51.09	N.A.	1.00
70-80	16.13	N.A.	0.30
80-90	2.50	N.A.	0.00
90-110	0.36	N.A.	0.00
90-120	0.36	N.A.	0.00
90-130	0.36	N.A.	0.00
90-150	0.36	N.A.	0.00
90-180	0.36	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	5064.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	2101.78
10-20	1408.85
20-30	907.44
30-40	471.70
40-50	65.61
50-60	54.78
60-70	34.96
70-80	16.13
80-90	2.50
90-100	0.34
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	75	73	86	79	75	73	79	75	72	78	75	72	77	74	72	71

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**UGR TABLE - CORRECTED**

Reflectances

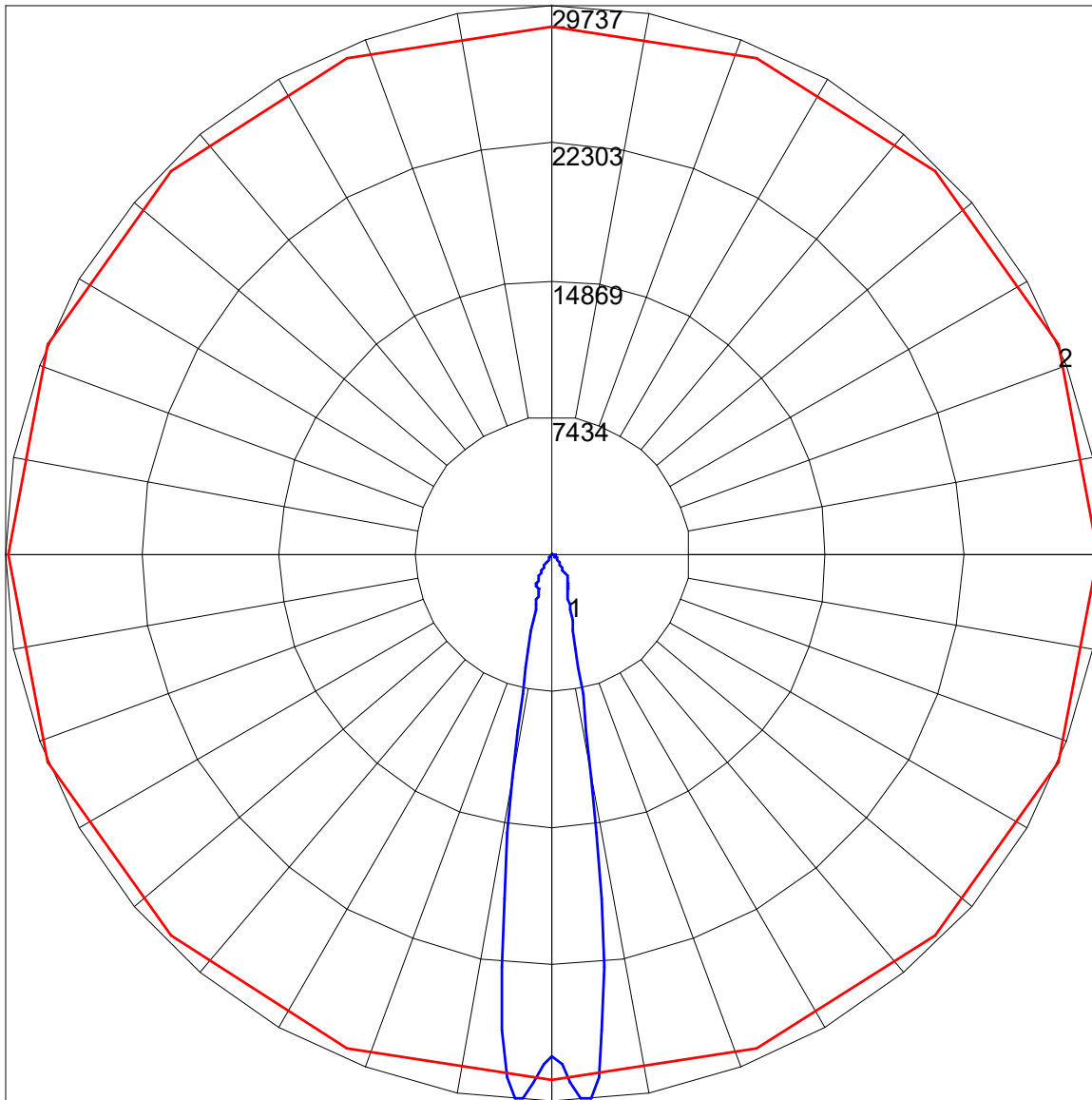
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size      UGR Viewed Crosswise

X=2H	Y=2H	9.3	10.3	9.7	10.6	10.9	UGR Viewed Endwise				
	3H	10.2	11.0	10.6	11.4	11.7	9.1	10.0	9.4	10.3	10.6
	4H	10.5	11.3	10.9	11.6	12.0	10.0	10.8	10.4	11.1	11.5
	6H	10.7	11.4	11.1	11.8	12.2	10.3	11.1	10.7	11.4	11.8
	8H	10.7	11.3	11.1	11.7	12.1	10.5	11.2	10.9	11.6	12.0
	12H	10.6	11.2	11.1	11.6	12.1	10.5	11.1	10.9	11.5	11.9
							10.4	11.1	10.9	11.4	11.9
4H	2H	9.5	10.3	10.0	10.7	11.1	9.3	10.1	9.7	10.4	10.8
	3H	10.6	11.2	11.0	11.6	12.0	10.4	11.0	10.8	11.4	11.9
	4H	11.0	11.6	11.5	12.0	12.4	10.9	11.4	11.3	11.8	12.3
	6H	11.3	11.8	11.8	12.2	12.7	11.1	11.6	11.6	12.1	12.5
	8H	11.3	11.7	11.7	12.2	12.6	11.1	11.6	11.6	12.0	12.5
	12H	11.2	11.6	11.7	12.1	12.6	11.1	11.5	11.6	12.0	12.4
8H	4H	11.1	11.5	11.6	12.0	12.4	10.9	11.4	11.4	11.8	12.3
	6H	11.4	11.8	11.9	12.3	12.8	11.3	11.6	11.8	12.2	12.6
	8H	11.4	11.7	12.0	12.3	12.8	11.3	11.6	11.9	12.1	12.6
	12H	11.4	11.7	11.9	12.2	12.7	11.3	11.5	11.8	12.0	12.6
12H	4H	11.0	11.4	11.5	11.9	12.4	10.9	11.3	11.4	11.8	12.2
	6H	11.4	11.7	11.9	12.2	12.7	11.3	11.6	11.8	12.1	12.6
	8H	11.4	11.7	11.9	12.2	12.8	11.3	11.6	11.8	12.1	12.6

Maximum UGR = 12.8

POLAR GRAPH



Maximum Candela = 29737.088 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.)