

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : W6CR-XX-L50-827-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-L50-827-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	5013
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
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	5411	5561	5632
55	6140	5969	5849
65	4534	4455	4327
75	3205	3208	3149
85	879	900	879

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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	27093.552	27093.552	27093.552	27093.552	27093.552
1	27507.807	27521.164	27467.605	27442.611	27396.565
2	28451.778	28485.251	28309.865	28213.028	28034.036
3	29297.050	29357.467	29061.228	28873.415	28549.040
4	29346.303	29436.723	29059.003	28829.319	28364.977
5	28149.648	28237.188	27886.492	27648.429	27138.121
6	25699.573	25797.359	25547.576	25363.118	24878.906
7	22389.825	22465.710	22361.933	22267.895	21880.191
8	18690.896	18780.957	18785.458	18843.042	18541.550
9	15152.201	15244.928	15364.827	15505.990	15312.776
10	12102.449	12198.369	12378.455	12565.727	12452.261
11	9610.487	9710.401	9915.777	10109.122	10043.992
12	7673.862	7771.058	7953.206	8139.366	8083.893
13	6214.263	6301.851	6461.936	6622.167	6562.193
14	5117.375	5245.279	5353.360	5479.120	5397.752
15	4339.101	4336.547	4486.647	4587.755	4568.228
16	3649.069	3699.877	3798.219	3877.819	3832.790
17	3177.786	3218.462	3299.536	3359.232	3320.389
18	2823.686	2856.554	2919.491	2968.728	2939.117
19	2564.032	2588.568	2637.543	2677.302	2652.766
20	2371.554	2392.637	2428.779	2466.901	2436.521
21	2245.713	2248.430	2283.901	2313.021	2278.123
22	2140.971	2149.384	2162.217	2191.910	2169.747
23	2067.951	2074.531	2082.748	2103.454	2081.226
24	2009.303	2011.987	2016.963	2027.455	2008.926
25	1959.689	1961.375	1960.393	1964.060	1941.880
26	1912.417	1910.797	1900.272	1902.498	1876.095
27	1858.696	1851.477	1834.683	1832.048	1806.578
28	1790.521	1780.962	1753.495	1745.049	1725.505
29	1701.951	1689.854	1653.631	1638.179	1622.007
30	1586.405	1572.214	1531.734	1513.074	1492.908
31	1441.151	1427.221	1388.019	1370.979	1346.606
32	1273.733	1262.210	1228.867	1219.144	1197.325
33	1086.478	1080.503	1059.519	1058.324	1046.784
34	892.920	892.576	887.158	898.632	895.670
35	704.976	710.787	719.479	743.393	745.848
36	536.871	548.428	568.790	599.923	603.737
37	397.133	406.103	430.967	465.423	472.920
38	274.680	288.986	321.527	355.524	362.694
39	199.009	209.943	233.088	263.222	271.750
40	138.658	149.968	174.292	193.214	197.486
41	106.625	114.400	128.984	146.940	147.579
42	88.505	93.170	101.665	110.962	113.859
43	78.225	80.877	85.575	91.107	91.860
44	72.644	73.969	76.457	79.486	79.027
45	69.452	70.303	71.383	73.053	72.300
46	67.586	68.257	68.617	69.714	68.895
47	66.473	67.029	66.964	67.815	67.029
48	65.818	66.194	65.916	66.554	65.834
49	65.392	65.638	65.212	65.654	64.934
50	65.098	65.196	64.623	64.950	64.165
51	64.918	64.934	64.165	64.345	63.494
52	64.852	64.754	63.772	63.821	62.937
53	64.836	64.590	63.444	63.379	62.430

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**CANDELA TABULATION - (Cont.)**

54	64.738	64.345	63.052	62.822	61.824
55	63.935	63.510	62.151	61.824	60.907
56	62.430	61.988	60.564	60.138	59.450
57	60.334	60.040	58.485	58.059	57.454
58	57.928	57.683	56.095	55.620	55.277
59	55.031	54.867	53.280	52.854	52.592
60	51.774	51.659	50.202	49.809	49.548
61	48.353	48.205	46.945	46.601	46.208
62	44.817	44.637	43.622	43.327	42.755
63	41.347	41.069	40.332	40.070	39.366
64	37.975	37.664	37.173	36.927	36.125
65	34.783	34.521	34.177	33.965	33.195
66	31.771	31.608	31.378	31.215	30.462
67	29.103	28.989	28.858	28.694	28.072
68	26.746	26.648	26.599	26.435	25.895
69	24.586	24.569	24.520	24.422	23.931
70	22.638	22.687	22.670	22.589	22.147
71	20.919	20.952	20.952	20.903	20.510
72	19.348	19.380	19.364	19.331	18.938
73	17.858	17.891	17.874	17.842	17.514
74	16.434	16.467	16.450	16.450	16.156
75	15.059	15.075	15.075	15.092	14.797
76	13.684	13.733	13.733	13.750	13.488
77	12.342	12.375	12.407	12.424	12.227
78	10.967	10.967	11.032	11.065	10.951
79	9.526	9.526	9.641	9.690	9.576
80	7.988	8.004	8.102	8.217	8.119
81	6.171	6.302	6.318	6.449	6.351
82	3.536	3.683	3.814	3.847	3.847
83	1.670	1.702	1.850	1.948	2.013
84	1.522	1.522	1.539	1.539	1.490
85	1.391	1.408	1.424	1.424	1.391
86	1.260	1.260	1.260	1.260	1.244
87	1.064	1.080	1.080	1.064	1.048
88	0.835	0.835	0.851	0.835	0.818
89	0.557	0.540	0.557	0.557	0.540
90	0.278	0.311	0.327	0.360	0.327
91	0.278	0.278	0.295	0.295	0.278
92	0.295	0.278	0.295	0.295	0.278
93	0.295	0.278	0.295	0.295	0.295
94	0.311	0.295	0.311	0.311	0.295
95	0.311	0.311	0.311	0.311	0.311
96	0.311	0.311	0.311	0.311	0.311
97	0.327	0.327	0.311	0.327	0.311
98	0.327	0.344	0.327	0.327	0.327
99	0.327	0.344	0.344	0.344	0.327
100	0.360	0.344	0.344	0.360	0.327
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	3475.17	N.A.	69.30
0-30	4373.45	N.A.	87.20
0-40	4840.38	N.A.	96.60
0-60	4959.56	N.A.	98.90
0-80	5010.13	N.A.	99.90
0-90	5012.61	N.A.	100.00
10-90	2932.06	N.A.	58.50
20-40	1365.21	N.A.	27.20
20-50	1430.16	N.A.	28.50
40-70	153.78	N.A.	3.10
60-80	50.57	N.A.	1.00
70-80	15.97	N.A.	0.30
80-90	2.48	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	5012.97	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	2080.55
10-20	1394.62
20-30	898.28
30-40	466.93
40-50	64.95
50-60	54.23
60-70	34.61
70-80	15.97
80-90	2.48
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	96	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	85	82	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	9.2	10.2	9.6	10.5	10.8	UGR Viewed Endwise	9.0	9.9	9.3	10.2	10.5
	3H	10.1	10.9	10.5	11.3	11.6		9.9	10.7	10.3	11.0	11.4
	4H	10.4	11.2	10.8	11.5	11.9		10.2	11.0	10.6	11.3	11.7
	6H	10.6	11.3	11.0	11.7	12.1		10.4	11.1	10.8	11.5	11.9
	8H	10.6	11.2	11.0	11.6	12.0		10.4	11.0	10.8	11.4	11.8
	12H	10.5	11.1	11.0	11.5	12.0		10.3	11.0	10.8	11.3	11.8

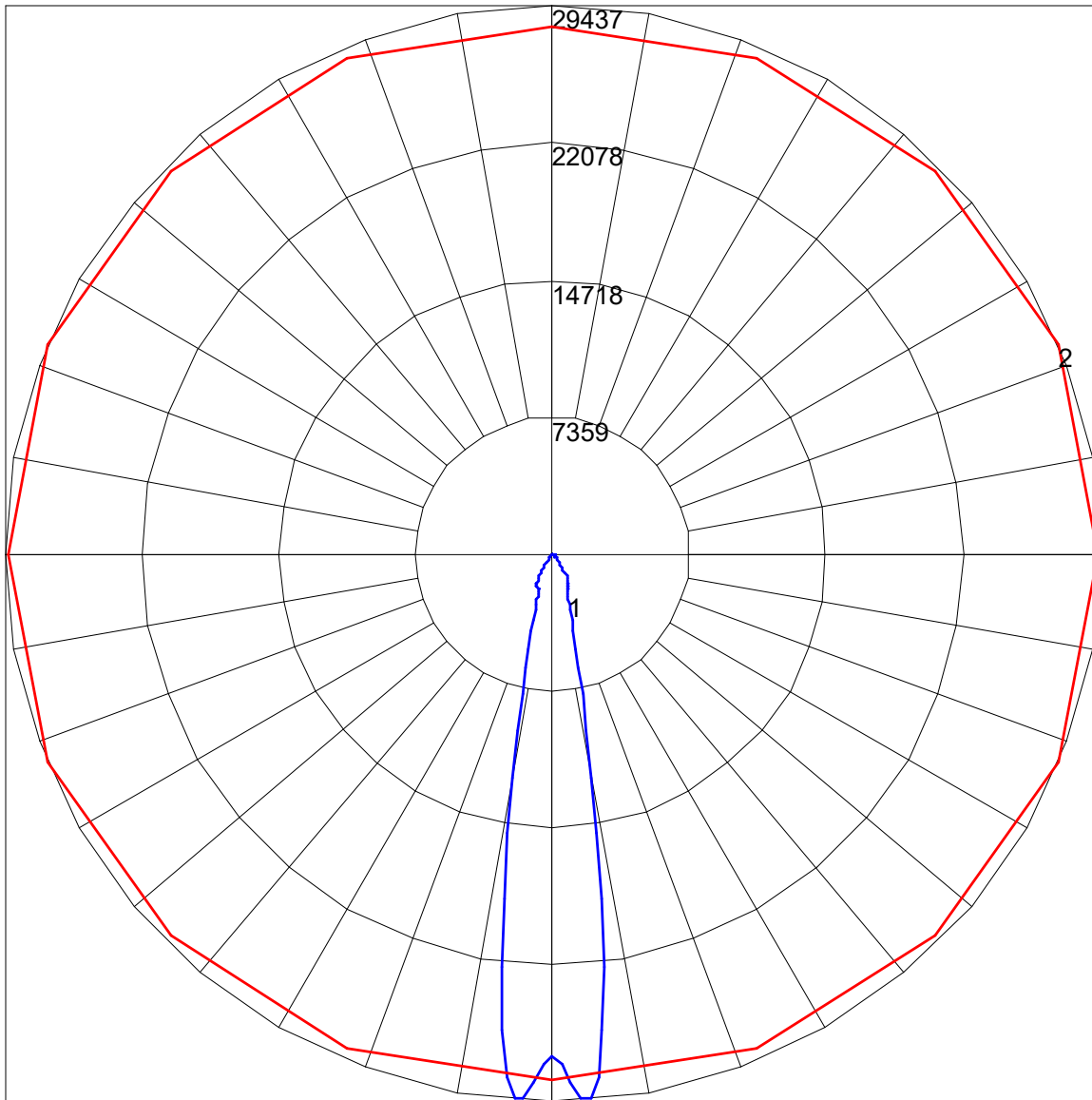
4H	2H	9.4	10.2	9.9	10.6	11.0	9.2	10.0	9.6	10.3	10.7
	3H	10.5	11.1	10.9	11.5	11.9	10.3	10.9	10.7	11.3	11.8
	4H	10.9	11.5	11.4	11.9	12.3	10.8	11.3	11.2	11.7	12.2
	6H	11.2	11.7	11.7	12.1	12.6	11.0	11.5	11.5	12.0	12.4
	8H	11.2	11.6	11.6	12.1	12.5	11.0	11.5	11.5	11.9	12.4
	12H	11.1	11.5	11.6	12.0	12.5	11.0	11.4	11.5	11.9	12.3

8H	4H	11.0	11.4	11.4	11.9	12.3	10.8	11.3	11.3	11.7	12.2
	6H	11.3	11.7	11.8	12.2	12.7	11.2	11.5	11.7	12.1	12.5
	8H	11.3	11.6	11.9	12.2	12.7	11.2	11.5	11.8	12.0	12.5
	12H	11.3	11.6	11.8	12.0	12.6	11.2	11.4	11.7	11.9	12.5

12H	4H	10.9	11.3	11.4	11.8	12.3	10.8	11.2	11.3	11.7	12.1
	6H	11.3	11.6	11.8	12.1	12.6	11.2	11.5	11.7	12.0	12.5
	8H	11.3	11.6	11.8	12.1	12.7	11.2	11.5	11.7	12.0	12.5

Maximum UGR = 12.7

POLAR GRAPH



Maximum Candela = 29436.723 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.)