

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : W6CR-XX-L60-827-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  
[ISSUE DATE] 2025-07-15  
[MANUFAC] H.E. WILLIAMS, INC.  
[LUMCAT] W6CR-xx-L60-827-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	6048
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	53.6
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	6527	6709	6795
55	7408	7201	7057
65	5470	5374	5220
75	3867	3871	3799
85	1061	1086	1061

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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	32685.9683	2685.9683	2685.9683	2685.9683	2685.9683
1	33185.7303	3201.8443	3137.2293	3107.0763	3051.526
2	34324.5483	4364.9293	4153.3413	4036.5173	3820.578
3	35344.2933	5417.1803	5059.7953	4833.2153	4441.885
4	35403.7123	5512.7963	5057.1103	4780.0173	4219.830
5	33960.0543	4065.6633	3642.5803	3355.3783	2739.736
6	31004.2563	1122.2263	820.8853	598.3533	0014.194
7	27011.3382	7102.8872	6977.6892	6864.2412	6396.510
8	22548.9092	2657.5592	2662.9902	2732.4602	2368.735
9	18279.7871	8391.6531	8536.3021	8706.6021	8473.506
10	14600.5311	4716.2501	4933.5091	5159.4351	5022.548
11	11594.2011	11714.7381	11962.5061	12195.7601	12117.186
12	9257.834	9375.092	9594.838	9819.423	9752.501
13	7496.957	7602.625	7795.752	7989.057	7916.704
14	6173.660	6327.964	6458.355	6610.072	6511.909
15	5234.740	5231.660	5412.742	5534.720	5511.162
16	4402.278	4463.574	4582.214	4678.245	4623.921
17	3833.718	3882.789	3980.597	4052.615	4005.755
18	3406.527	3446.179	3522.107	3581.507	3545.784
19	3093.277	3122.878	3181.962	3229.928	3200.327
20	2861.070	2886.504	2930.106	2976.097	2939.447
21	2709.254	2712.532	2755.324	2790.454	2748.353
22	2582.892	2593.042	2608.523	2644.345	2617.607
23	2494.799	2502.738	2512.651	2537.631	2510.814
24	2424.045	2427.284	2433.287	2445.945	2423.591
25	2364.192	2366.226	2365.041	2369.464	2342.707
26	2307.162	2305.207	2292.509	2295.195	2263.343
27	2242.352	2233.643	2213.382	2210.203	2179.476
28	2160.105	2148.572	2115.436	2105.247	2081.669
29	2053.253	2038.659	1994.959	1976.317	1956.807
30	1913.857	1896.736	1847.902	1825.390	1801.061
31	1738.621	1721.816	1674.521	1653.965	1624.561
32	1536.646	1522.745	1482.520	1470.790	1444.467
33	1310.739	1303.531	1278.215	1276.774	1262.852
34	1077.228	1076.814	1070.277	1084.120	1080.546
35	850.491	857.502	867.987	896.838	899.800
36	647.688	661.629	686.195	723.754	728.355
37	479.106	489.928	519.924	561.491	570.536
38	331.377	348.636	387.894	428.909	437.558
39	240.086	253.277	281.200	317.554	327.843
40	167.278	180.924	210.268	233.096	238.250
41	128.633	138.013	155.608	177.270	178.041
42	106.773	112.401	122.650	133.866	137.361
43	94.372	97.571	103.238	109.913	110.821
44	87.638	89.238	92.239	95.892	95.339
45	83.787	84.814	86.117	88.132	87.223
46	81.536	82.346	82.780	84.103	83.116
47	80.193	80.865	80.786	81.813	80.865
48	79.403	79.858	79.522	80.292	79.423
49	78.890	79.186	78.673	79.206	78.337
50	78.535	78.653	77.962	78.357	77.409
51	78.317	78.337	77.409	77.626	76.599
52	78.238	78.120	76.935	76.994	75.928
53	78.219	77.922	76.540	76.461	75.316

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**CANDELA TABULATION - (Cont.)**

54	78.100	77.626	76.066	75.790	74.585
55	77.132	76.619	74.980	74.585	73.479
56	75.316	74.783	73.065	72.551	71.722
57	72.788	72.433	70.557	70.043	69.313
58	69.885	69.589	67.674	67.101	66.686
59	66.390	66.193	64.277	63.764	63.448
60	62.460	62.322	60.565	60.091	59.775
61	58.333	58.155	56.635	56.220	55.746
62	54.068	53.851	52.626	52.271	51.580
63	49.881	49.546	48.657	48.341	47.492
64	45.813	45.438	44.846	44.550	43.582
65	41.963	41.647	41.232	40.975	40.047
66	38.329	38.132	37.855	37.658	36.750
67	35.110	34.972	34.814	34.617	33.866
68	32.267	32.148	32.089	31.892	31.240
69	29.660	29.641	29.581	29.463	28.870
70	27.310	27.370	27.350	27.251	26.718
71	25.237	25.276	25.276	25.217	24.743
72	23.341	23.381	23.361	23.321	22.847
73	21.544	21.584	21.564	21.524	21.129
74	19.826	19.866	19.846	19.846	19.490
75	18.167	18.187	18.187	18.207	17.851
76	16.509	16.568	16.568	16.588	16.272
77	14.889	14.929	14.968	14.988	14.751
78	13.231	13.231	13.310	13.349	13.211
79	11.493	11.493	11.631	11.690	11.552
80	9.637	9.656	9.775	9.913	9.795
81	7.445	7.603	7.622	7.780	7.662
82	4.265	4.443	4.601	4.641	4.641
83	2.014	2.054	2.231	2.350	2.429
84	1.836	1.836	1.856	1.856	1.797
85	1.679	1.698	1.718	1.718	1.679
86	1.521	1.521	1.521	1.521	1.501
87	1.284	1.303	1.303	1.284	1.264
88	1.007	1.007	1.027	1.007	0.987
89	0.671	0.652	0.671	0.671	0.652
90	0.336	0.375	0.395	0.434	0.395
91	0.336	0.336	0.355	0.355	0.336
92	0.355	0.336	0.355	0.355	0.336
93	0.355	0.336	0.355	0.355	0.355
94	0.375	0.355	0.375	0.375	0.355
95	0.375	0.375	0.375	0.375	0.375
96	0.375	0.375	0.375	0.375	0.375
97	0.395	0.395	0.375	0.395	0.375
98	0.395	0.415	0.395	0.395	0.395
99	0.395	0.415	0.415	0.415	0.395
100	0.434	0.415	0.415	0.434	0.395
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

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : W6CR-XX-L60-827-XXX-DIM-UNV-S-XXX\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	4192.48	N.A.	69.30
0-30	5276.18	N.A.	87.20
0-40	5839.49	N.A.	96.60
0-60	5983.27	N.A.	98.90
0-80	6044.28	N.A.	99.90
0-90	6047.27	N.A.	100.00
10-90	3537.27	N.A.	58.50
20-40	1647.01	N.A.	27.20
20-50	1725.36	N.A.	28.50
40-70	185.53	N.A.	3.10
60-80	61.01	N.A.	1.00
70-80	19.26	N.A.	0.30
80-90	2.99	N.A.	0.00
90-110	0.43	N.A.	0.00
90-120	0.43	N.A.	0.00
90-130	0.43	N.A.	0.00
90-150	0.43	N.A.	0.00
90-180	0.43	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	6047.7	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	2510.00
10-20	1682.48
20-30	1083.69
30-40	563.31
40-50	78.36
50-60	65.42
60-70	41.75
70-80	19.26
80-90	2.99
90-100	0.41
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	110	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	74	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	9.9	10.9	10.3	11.2	11.5	UGR Viewed Endwise			
	3H	10.8	11.6	11.2	12.0	12.3	9.7	10.6	10.0	10.9
	4H	11.1	11.9	11.5	12.2	12.6	10.6	11.4	11.0	11.7
	6H	11.3	12.0	11.7	12.4	12.8	10.9	11.7	11.3	12.0
	8H	11.3	11.9	11.7	12.3	12.7	11.1	11.8	11.5	12.2
	12H	11.2	11.8	11.7	12.2	12.7	11.1	11.7	11.5	12.1

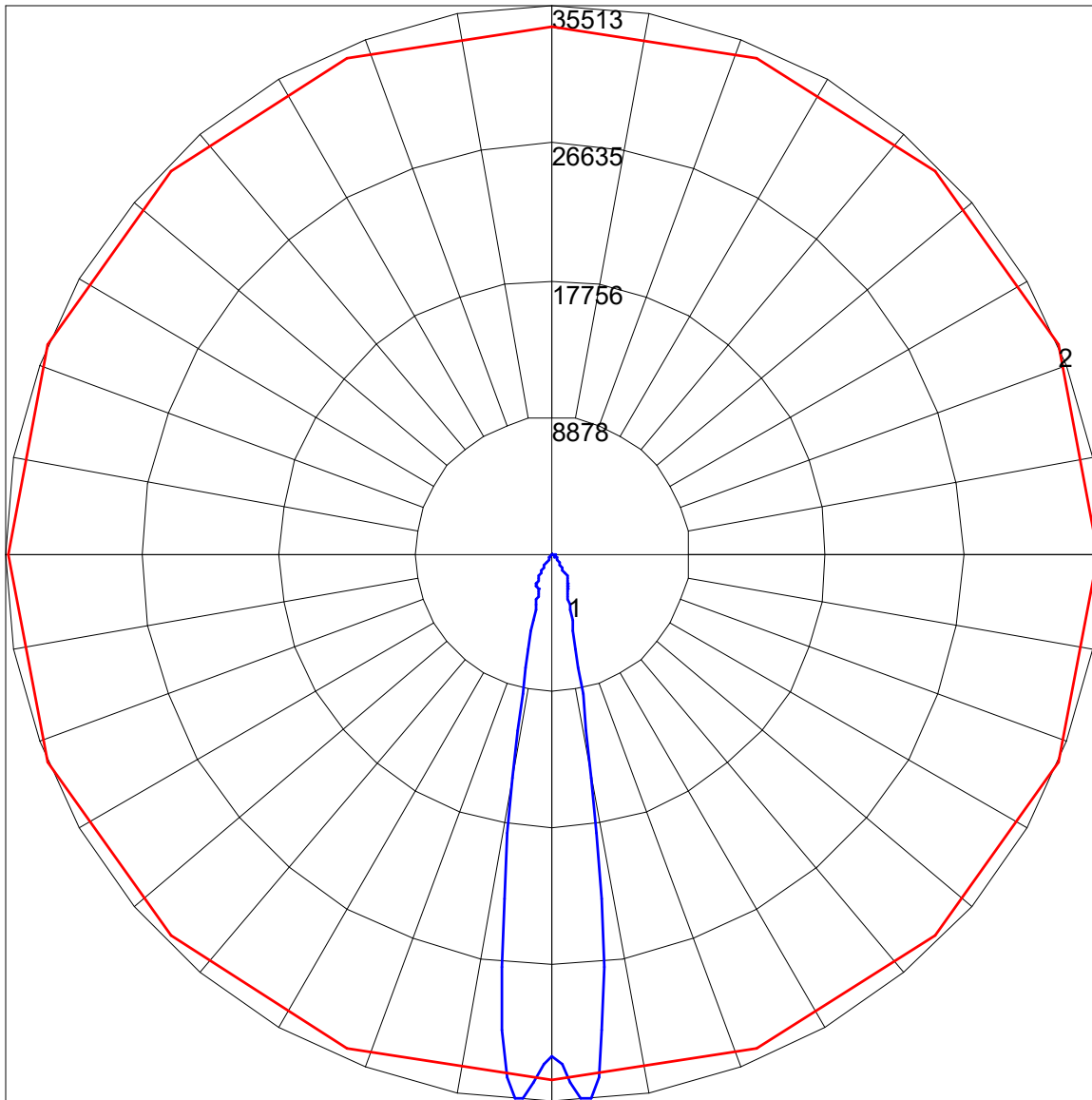
4H	2H	10.1	10.9	10.6	11.3	11.7	9.9	10.7	10.3	11.0	11.4
	3H	11.2	11.8	11.6	12.2	12.6	11.0	11.6	11.4	12.0	12.5
	4H	11.6	12.2	12.1	12.6	13.0	11.5	12.0	11.9	12.4	12.9
	6H	11.9	12.4	12.4	12.8	13.3	11.7	12.2	12.2	12.7	13.1
	8H	11.9	12.3	12.3	12.8	13.2	11.7	12.2	12.2	12.6	13.1
	12H	11.8	12.2	12.3	12.7	13.2	11.7	12.1	12.2	12.6	13.0

8H	4H	11.7	12.1	12.2	12.6	13.0	11.5	12.0	12.0	12.4	12.9
	6H	12.0	12.4	12.5	12.9	13.4	11.9	12.2	12.4	12.8	13.2
	8H	12.0	12.3	12.6	12.9	13.4	11.9	12.2	12.5	12.7	13.2
	12H	12.0	12.3	12.5	12.8	13.3	11.9	12.1	12.4	12.6	13.2

12H	4H	11.6	12.0	12.1	12.5	13.0	11.5	11.9	12.0	12.4	12.8
	6H	12.0	12.3	12.5	12.8	13.3	11.9	12.2	12.4	12.7	13.2
	8H	12.0	12.3	12.5	12.8	13.4	11.9	12.2	12.4	12.7	13.2

Maximum UGR = 13.4

POLAR GRAPH



Maximum Candela = 35512.796 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.)