

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : W6CR-XX-L50-950-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-L50-950-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	4860
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
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	5245	5391	5460
55	5952	5786	5670
65	4395	4318	4194
75	3107	3110	3053
85	853	872	853

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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	26264.154	26264.154	26264.154	26264.154	26264.154
1	26665.727	26678.675	26626.756	26602.527	26557.891
2	27580.802	27613.250	27443.232	27349.360	27175.847
3	28400.198	28458.765	28171.595	27989.531	27675.086
4	28447.943	28535.595	28169.438	27946.785	27496.658
5	27287.920	27372.780	27032.820	26802.045	26307.359
6	24912.848	25007.641	24765.504	24586.693	24117.303
7	21704.419	21777.981	21677.381	21586.222	21210.386
8	18118.724	18206.027	18210.391	18266.212	17973.949
9	14688.356	14778.244	14894.473	15031.315	14844.015
10	11731.964	11824.948	11999.521	12181.060	12071.067
11	9316.288	9413.142	9612.232	9799.658	9736.522
12	7438.947	7533.167	7709.740	7890.200	7836.426
13	6024.030	6108.937	6264.120	6419.447	6361.308
14	4960.720	5084.709	5189.481	5311.391	5232.514
15	4206.270	4203.795	4349.300	4447.313	4428.383
16	3537.363	3586.615	3681.947	3759.110	3715.459
17	3080.507	3119.937	3198.529	3256.397	3218.744
18	2737.246	2769.108	2830.118	2877.848	2849.143
19	2485.541	2509.326	2556.802	2595.344	2571.558
20	2298.955	2319.393	2354.428	2391.383	2361.933
21	2176.967	2179.601	2213.985	2242.213	2208.384
22	2075.431	2083.587	2096.027	2124.810	2103.326
23	2004.646	2011.025	2018.990	2039.063	2017.515
24	1947.793	1950.395	1955.219	1965.390	1947.428
25	1899.699	1901.333	1900.381	1903.935	1882.435
26	1853.874	1852.303	1842.100	1844.258	1818.664
27	1801.797	1794.799	1778.519	1775.964	1751.275
28	1735.709	1726.442	1699.816	1691.629	1672.683
29	1649.850	1638.124	1603.009	1588.030	1572.353
30	1537.842	1524.084	1484.844	1466.755	1447.207
31	1397.034	1383.531	1345.528	1329.010	1305.383
32	1234.741	1223.571	1191.249	1181.824	1160.672
33	1053.218	1047.426	1027.084	1025.926	1014.739
34	865.585	865.252	860.000	871.123	868.251
35	683.395	689.028	697.454	720.636	723.016
36	520.436	531.639	551.378	581.558	585.255
37	384.976	393.671	417.774	451.175	458.442
38	266.272	280.140	311.684	344.641	351.591
39	192.916	203.516	225.952	255.164	263.431
40	134.413	145.378	168.957	187.299	191.441
41	103.361	110.898	125.036	142.442	143.061
42	85.795	90.318	98.553	107.565	110.374
43	75.831	78.401	82.955	88.318	89.048
44	70.420	71.705	74.117	77.052	76.608
45	67.326	68.151	69.198	70.816	70.087
46	65.517	66.167	66.516	67.579	66.786
47	64.438	64.977	64.914	65.739	64.977
48	63.803	64.168	63.898	64.517	63.819
49	63.390	63.628	63.216	63.644	62.946
50	63.105	63.200	62.645	62.962	62.200
51	62.930	62.946	62.200	62.375	61.550
52	62.867	62.772	61.820	61.867	61.010
53	62.851	62.613	61.502	61.439	60.518

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**CANDELA TABULATION - (Cont.)**

54	62.756	62.375	61.121	60.899	59.931
55	61.978	61.566	60.249	59.931	59.043
56	60.518	60.090	58.710	58.297	57.631
57	58.487	58.202	56.694	56.282	55.695
58	56.155	55.917	54.378	53.918	53.584
59	53.346	53.188	51.649	51.236	50.982
60	50.189	50.078	48.665	48.285	48.031
61	46.872	46.730	45.508	45.175	44.794
62	43.445	43.271	42.287	42.001	41.446
63	40.081	39.811	39.097	38.844	38.161
64	36.812	36.511	36.035	35.797	35.019
65	33.718	33.464	33.131	32.925	32.179
66	30.799	30.640	30.418	30.259	29.529
67	28.212	28.101	27.974	27.816	27.213
68	25.927	25.832	25.785	25.626	25.102
69	23.833	23.817	23.769	23.674	23.198
70	21.945	21.992	21.976	21.897	21.469
71	20.279	20.310	20.310	20.263	19.882
72	18.755	18.787	18.771	18.739	18.359
73	17.311	17.343	17.327	17.296	16.978
74	15.931	15.963	15.947	15.947	15.661
75	14.598	14.614	14.614	14.630	14.344
76	13.265	13.313	13.313	13.329	13.075
77	11.964	11.996	12.028	12.043	11.853
78	10.631	10.631	10.695	10.726	10.615
79	9.235	9.235	9.346	9.394	9.282
80	7.743	7.759	7.854	7.965	7.870
81	5.982	6.109	6.125	6.252	6.157
82	3.427	3.570	3.697	3.729	3.729
83	1.618	1.650	1.793	1.888	1.952
84	1.476	1.476	1.492	1.492	1.444
85	1.349	1.365	1.380	1.380	1.349
86	1.222	1.222	1.222	1.222	1.206
87	1.031	1.047	1.047	1.031	1.016
88	0.809	0.809	0.825	0.809	0.793
89	0.539	0.524	0.539	0.539	0.524
90	0.270	0.301	0.317	0.349	0.317
91	0.270	0.270	0.286	0.286	0.270
92	0.286	0.270	0.286	0.286	0.270
93	0.286	0.270	0.286	0.286	0.286
94	0.301	0.286	0.301	0.301	0.286
95	0.301	0.301	0.301	0.301	0.301
96	0.301	0.301	0.301	0.301	0.301
97	0.317	0.317	0.301	0.317	0.301
98	0.317	0.333	0.317	0.317	0.317
99	0.317	0.333	0.333	0.333	0.317
100	0.349	0.333	0.333	0.349	0.317
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	3368.78	N.A.	69.30
0-30	4239.57	N.A.	87.20
0-40	4692.2	N.A.	96.60
0-60	4807.73	N.A.	98.90
0-80	4856.76	N.A.	99.90
0-90	4859.16	N.A.	100.00
10-90	2842.3	N.A.	58.50
20-40	1323.42	N.A.	27.20
20-50	1386.38	N.A.	28.50
40-70	149.08	N.A.	3.10
60-80	49.03	N.A.	1.00
70-80	15.48	N.A.	0.30
80-90	2.40	N.A.	0.00
90-110	0.35	N.A.	0.00
90-120	0.35	N.A.	0.00
90-130	0.35	N.A.	0.00
90-150	0.35	N.A.	0.00
90-180	0.35	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	4859.51	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	2016.86
10-20	1351.92
20-30	870.78
30-40	452.64
40-50	62.96
50-60	52.57
60-70	33.55
70-80	15.48
80-90	2.40
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	112	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	84	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	9.1	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

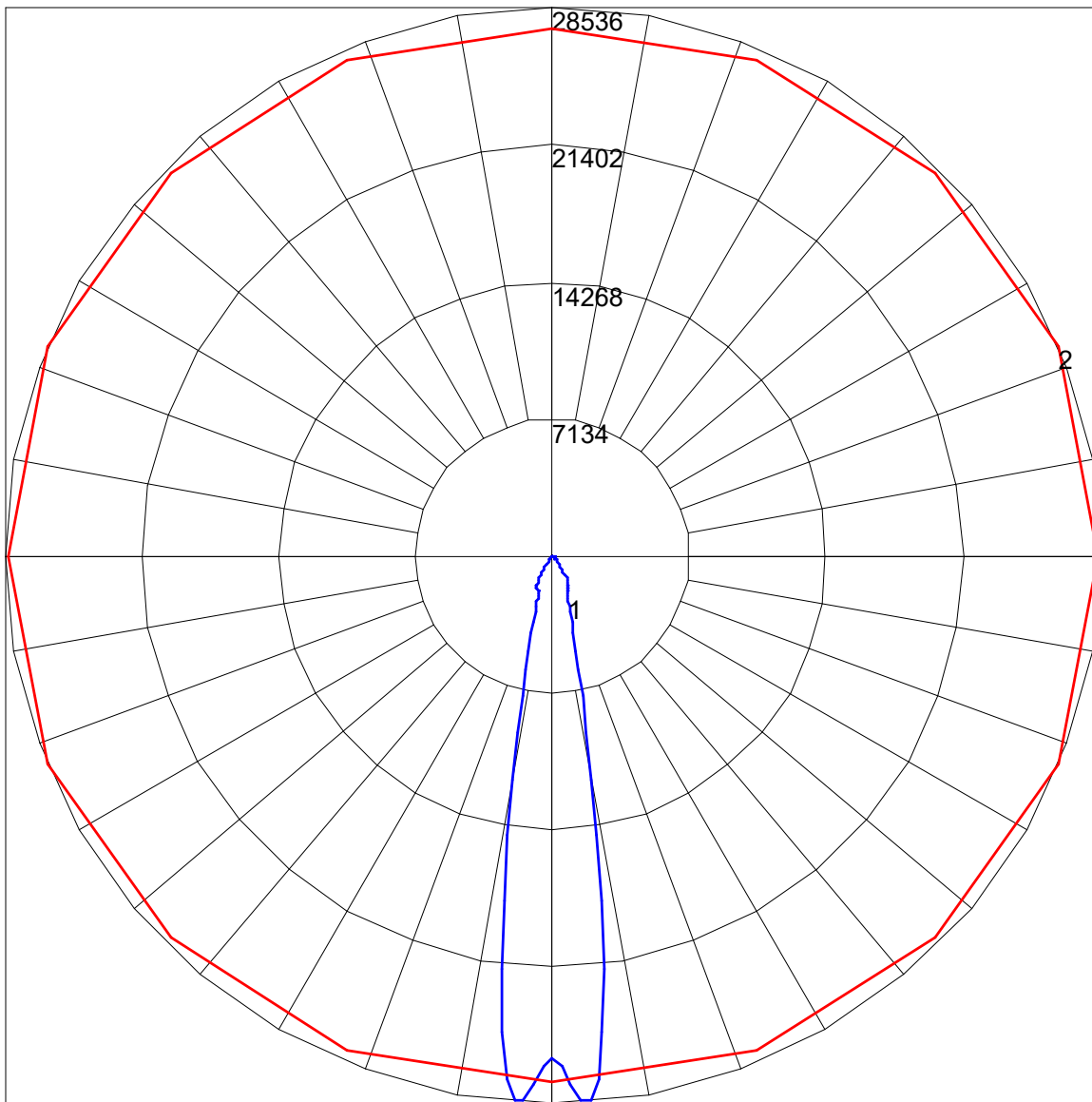
### UGR Viewed Endwise

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	11.3	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	11.9	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 = 28535.595 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.)