

IES INDOOR REPORT

PHOTOMETRIC FILENAME : W6CR-XX-L70-827-RDB-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-L70-827-RDB-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	6804
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	63.7
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	7344	7548	7645
55	8334	8102	7940
65	6154	6047	5873
75	4350	4355	4275
85	1193	1222	1193

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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	36774.34836774.34836774.34836774.34836774.34836774.348				
1	37336.62037354.75037282.05437248.12937185.630				
2	38617.88338663.31538425.26238293.82538050.876				
3	39765.17839847.18239445.09539190.17538749.897				
4	39832.02939954.75839442.07539130.32338500.067				
5	38207.79838326.61737850.61437527.48836834.842				
6	34882.28735015.01334675.98034425.61433768.387				
7	30389.93230492.93230352.07430224.43629698.202				
8	25369.34025491.58025497.69025575.84925166.630				
9	20566.23420692.09320854.83321046.43520784.183				
10	16426.77516556.96816801.40117055.58716901.578				
11	13044.41013180.02413458.78313721.21313632.811				
12	10415.80910547.73410794.96711047.64210972.349				
13	8434.681 8553.566 8770.850 8988.333 8906.930				
14	6945.865 7119.470 7266.170 7436.864 7326.422				
15	5889.505 5886.039 6089.770 6227.006 6200.501				
16	4952.918 5021.880 5155.361 5263.403 5202.284				
17	4313.241 4368.451 4478.493 4559.518 4506.797				
18	3832.617 3877.229 3962.654 4029.484 3989.293				
19	3480.186 3513.490 3579.963 3633.929 3600.626				
20	3218.934 3247.550 3296.606 3348.349 3307.115				
21	3048.129 3051.817 3099.962 3139.486 3092.119				
22	2905.961 2917.381 2934.799 2975.101 2945.019				
23	2806.850 2815.782 2826.935 2855.040 2824.869				
24	2727.246 2730.890 2737.644 2751.885 2726.735				
25	2659.906 2662.194 2660.862 2665.838 2635.734				
26	2595.743 2593.543 2579.258 2582.279 2546.443				
27	2522.826 2513.028 2490.234 2486.657 2452.087				
28	2430.292 2417.317 2380.036 2368.572 2342.045				
29	2310.075 2293.656 2244.489 2223.516 2201.566				
30	2153.244 2133.981 2079.038 2053.711 2026.339				
31	1956.088 1937.182 1883.971 1860.843 1827.762				
32	1728.851 1713.210 1667.954 1654.757 1625.141				
33	1474.687 1466.577 1438.095 1436.473 1420.810				
34	1211.969 1211.502 1204.148 1219.723 1215.701				
35	956.871 964.758 976.556 1009.015 1012.348				
36	728.701 744.386 772.024 814.281 819.458				
37	539.033 551.208 584.956 631.723 641.898				
38	372.826 392.244 436.412 482.557 492.288				
39	270.116 284.957 316.372 357.274 368.849				
40	188.202 203.554 236.568 262.251 268.050				
41	144.723 155.276 175.071 199.444 200.310				
42	120.128 126.460 137.991 150.610 154.543				
43	106.176 109.775 116.151 123.661 124.683				
44	98.600 100.399 103.776 107.887 107.264				
45	94.267 95.423 96.889 99.155 98.133				
46	91.735 92.646 93.134 94.623 93.512				
47	90.224 90.979 90.890 92.046 90.979				
48	89.335 89.846 89.469 90.335 89.357				
49	88.758 89.091 88.513 89.113 88.136				
50	88.358 88.491 87.713 88.158 87.091				
51	88.113 88.136 87.091 87.336 86.180				
52	88.024 87.891 86.558 86.625 85.425				
53	88.002 87.669 86.114 86.025 84.736				

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CANDELA TABULATION - (Cont.)

54	87.869	87.336	85.581	85.269	83.914
55	86.780	86.203	84.359	83.914	82.670
56	84.736	84.136	82.204	81.626	80.693
57	81.892	81.493	79.382	78.804	77.982
58	78.627	78.293	76.138	75.494	75.027
59	74.694	74.472	72.317	71.739	71.384
60	70.273	70.117	68.140	67.607	67.251
61	65.630	65.430	63.719	63.252	62.719
62	60.831	60.586	59.209	58.809	58.031
63	56.121	55.743	54.743	54.388	53.432
64	51.544	51.122	50.455	50.122	49.033
65	47.211	46.856	46.389	46.101	45.056
66	43.124	42.901	42.590	42.368	41.346
67	39.502	39.347	39.169	38.947	38.102
68	36.303	36.170	36.103	35.881	35.148
69	33.370	33.348	33.281	33.148	32.482
70	30.726	30.793	30.771	30.660	30.060
71	28.394	28.438	28.438	28.371	27.838
72	26.261	26.305	26.283	26.238	25.705
73	24.239	24.283	24.261	24.217	23.772
74	22.306	22.350	22.328	22.328	21.928
75	20.440	20.462	20.462	20.484	20.084
76	18.574	18.640	18.640	18.662	18.307
77	16.752	16.796	16.841	16.863	16.596
78	14.886	14.886	14.974	15.019	14.863
79	12.930	12.930	13.086	13.153	12.997
80	10.842	10.864	10.997	11.153	11.020
81	8.376	8.554	8.576	8.754	8.620
82	4.799	4.999	5.177	5.221	5.221
83	2.266	2.311	2.511	2.644	2.733
84	2.066	2.066	2.088	2.088	2.022
85	1.888	1.911	1.933	1.933	1.888
86	1.711	1.711	1.711	1.711	1.689
87	1.444	1.466	1.466	1.444	1.422
88	1.133	1.133	1.155	1.133	1.111
89	0.755	0.733	0.755	0.755	0.733
90	0.378	0.422	0.444	0.489	0.444
91	0.378	0.378	0.400	0.400	0.378
92	0.400	0.378	0.400	0.400	0.378
93	0.400	0.378	0.400	0.400	0.400
94	0.422	0.400	0.422	0.422	0.400
95	0.422	0.422	0.422	0.422	0.422
96	0.422	0.422	0.422	0.422	0.422
97	0.444	0.444	0.422	0.444	0.422
98	0.444	0.467	0.444	0.444	0.444
99	0.444	0.467	0.467	0.467	0.444
100	0.489	0.467	0.467	0.489	0.444
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-L70-827-RDB-XXX-DIM-UNV-S-XXX_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	4716.88	N.A.	69.30
0-30	5936.12	N.A.	87.20
0-40	6569.9	N.A.	96.60
0-60	6731.66	N.A.	98.90
0-80	6800.3	N.A.	99.90
0-90	6803.67	N.A.	100.00
10-90	3979.71	N.A.	58.50
20-40	1853.02	N.A.	27.20
20-50	1941.17	N.A.	28.50
40-70	208.73	N.A.	3.10
60-80	68.65	N.A.	1.00
70-80	21.67	N.A.	0.30
80-90	3.36	N.A.	0.00
90-110	0.49	N.A.	0.00
90-120	0.49	N.A.	0.00
90-130	0.49	N.A.	0.00
90-150	0.49	N.A.	0.00
90-180	0.49	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	6804.15	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2823.95
10-20	1892.93
20-30	1219.24
30-40	633.77
40-50	88.16
50-60	73.61
60-70	46.97
70-80	21.67
80-90	3.36
90-100	0.46
100-110	0.03
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	10.3	11.3	10.7	11.6	11.9	10.1	11.0	10.4	11.3	11.6
	3H	11.2	12.0	11.6	12.4	12.7	11.0	11.8	11.4	12.1	12.5
	4H	11.5	12.3	11.9	12.6	13.0	11.3	12.1	11.7	12.4	12.8
	6H	11.7	12.4	12.1	12.8	13.2	11.5	12.2	11.9	12.6	13.0
	8H	11.7	12.3	12.1	12.7	13.1	11.5	12.1	11.9	12.5	12.9
	12H	11.6	12.2	12.1	12.6	13.1	11.4	12.1	11.9	12.4	12.9

UGR Viewed Endwise

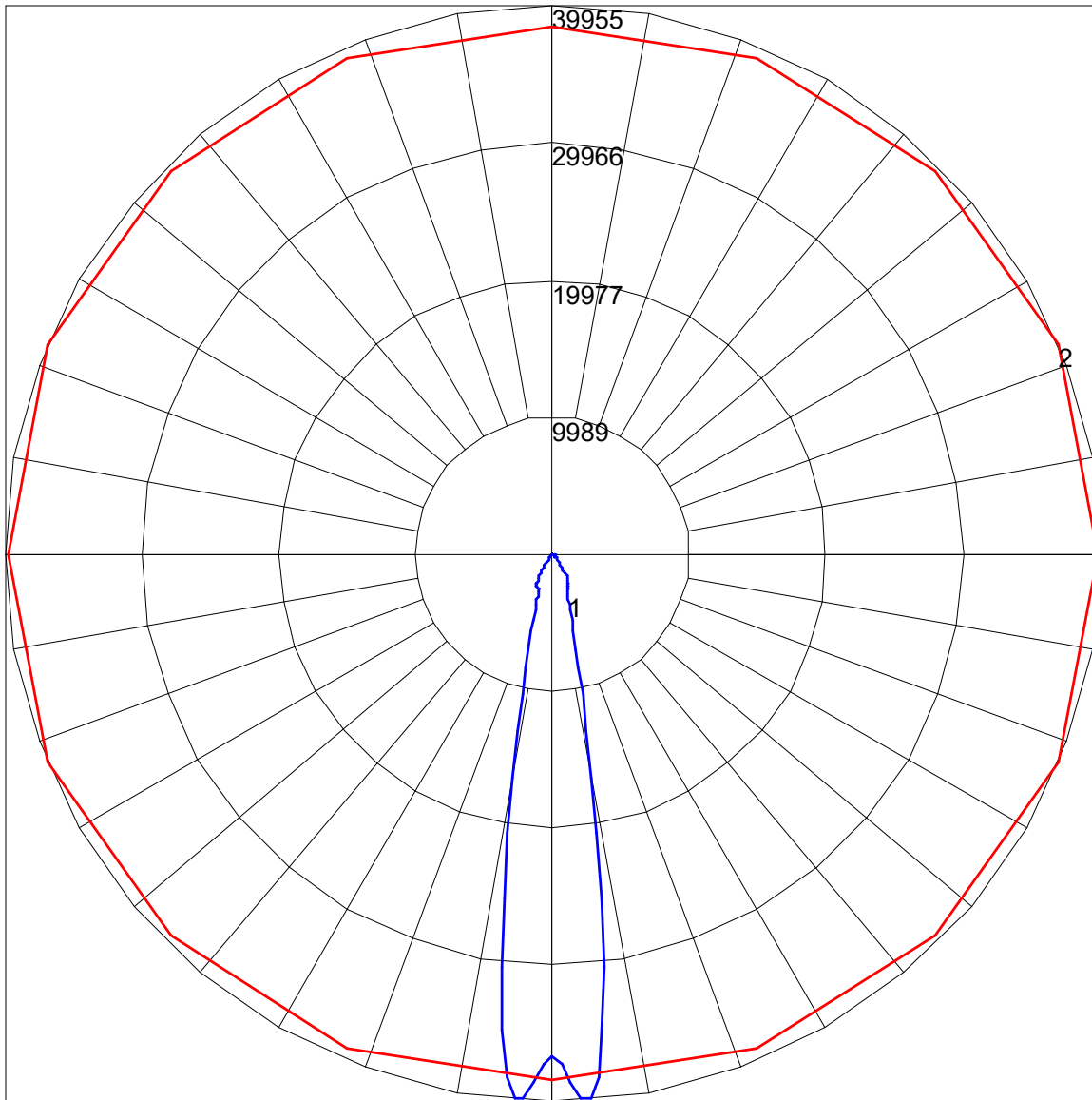
4H	2H	10.5	11.3	11.0	11.7	12.1	10.3	11.1	10.7	11.4	11.8
	3H	11.6	12.2	12.0	12.6	13.0	11.4	12.0	11.8	12.4	12.9
	4H	12.0	12.6	12.5	13.0	13.4	11.9	12.4	12.3	12.8	13.3
	6H	12.3	12.8	12.8	13.2	13.7	12.1	12.6	12.6	13.1	13.5
	8H	12.3	12.7	12.7	13.2	13.6	12.1	12.6	12.6	13.0	13.5
	12H	12.2	12.6	12.7	13.1	13.6	12.1	12.5	12.6	13.0	13.4

8H	4H	12.1	12.5	12.6	13.0	13.4	11.9	12.4	12.4	12.8	13.3
	6H	12.4	12.8	12.9	13.3	13.8	12.3	12.6	12.8	13.2	13.6
	8H	12.4	12.7	13.0	13.3	13.8	12.3	12.6	12.9	13.1	13.6
	12H	12.4	12.7	12.9	13.2	13.7	12.3	12.5	12.8	13.0	13.6

12H	4H	12.0	12.4	12.5	12.9	13.4	11.9	12.3	12.4	12.8	13.2
	6H	12.4	12.7	12.9	13.2	13.7	12.3	12.6	12.8	13.1	13.6
	8H	12.4	12.7	12.9	13.2	13.8	12.3	12.6	12.8	13.1	13.6

Maximum UGR = 13.8

POLAR GRAPH



Maximum Candela = 39954.758 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.)