

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : W6CR-XX-L70-950-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  
[ISSUE DATE] 2025-07-15  
[MANUFAC] H.E. WILLIAMS, INC.  
[LUMCAT] W6CR-xx-L70-950-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	6596
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
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	7119	7317	7411
55	8079	7854	7696
65	5965	5861	5693
75	4217	4222	4144
85	1157	1184	1157

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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	35648.61835648.61835648.61835648.61835648.61835648.618				
1	36193.67836211.25336140.78236107.89636047.310				
2	37435.71937479.76137248.99437121.58136886.070				
3	38547.89438627.38738237.60937990.49237563.692				
4	38612.69838731.67038234.68137932.47237321.509				
5	37038.18837153.36936691.93736378.70435707.260				
6	33814.47733943.14033614.48533371.78332734.675				
7	29459.64129559.48829422.94229299.21128789.085				
8	24592.73824711.23624717.15924792.92624396.234				
9	19936.66420058.67020216.42920402.16520147.941				
10	15923.92116050.12916287.07916533.48416384.190				
11	12645.09712776.55913046.78513301.18113215.485				
12	10096.96210224.84910464.51310709.45410636.465				
13	8176.480 8291.725 8502.358 8713.184 8634.272				
14	6733.239 6901.530 7043.739 7209.208 7102.147				
15	5709.216 5705.857 5903.351 6036.386 6010.692				
16	4801.300 4868.151 4997.546 5102.281 5043.032				
17	4181.205 4234.725 4341.398 4419.943 4368.836				
18	3715.294 3758.540 3841.350 3906.134 3867.173				
19	3373.651 3405.936 3470.374 3522.688 3490.404				
20	3120.397 3148.137 3195.691 3245.850 3205.878				
21	2954.820 2958.395 3005.066 3043.380 2997.464				
22	2817.004 2828.075 2844.959 2884.028 2854.867				
23	2720.928 2729.586 2740.397 2767.642 2738.394				
24	2643.760 2647.293 2653.840 2667.645 2643.265				
25	2578.481 2580.700 2579.408 2584.232 2555.049				
26	2516.282 2514.150 2500.302 2503.231 2468.492				
27	2445.598 2436.100 2414.003 2410.536 2377.024				
28	2355.896 2343.318 2307.179 2296.066 2270.351				
29	2239.359 2223.443 2175.782 2155.451 2134.172				
30	2087.329 2068.656 2015.395 1990.843 1964.309				
31	1896.209 1877.881 1826.300 1803.880 1771.811				
32	1675.928 1660.766 1616.895 1604.102 1575.393				
33	1429.544 1421.683 1394.072 1392.500 1377.317				
34	1174.868 1174.416 1167.287 1182.385 1178.486				
35	927.580 935.225 946.661 978.127 981.358				
36	706.394 721.599 748.391 789.355 794.373				
37	522.532 534.334 567.049 612.385 622.249				
38	361.413 380.237 423.052 467.785 477.218				
39	261.848 276.234 306.688 346.337 357.558				
40	182.440 197.323 229.327 254.223 259.845				
41	140.292 150.523 169.712 193.338 194.178				
42	116.451 122.589 133.767 146.000 149.812				
43	102.926 106.415 112.596 119.875 120.866				
44	95.581 97.326 100.600 104.584 103.981				
45	91.382 92.502 93.923 96.120 95.129				
46	88.927 89.810 90.283 91.726 90.649				
47	87.462 88.194 88.108 89.228 88.194				
48	86.601 87.096 86.730 87.570 86.622				
49	86.041 86.364 85.804 86.385 85.438				
50	85.653 85.782 85.028 85.459 84.425				
51	85.416 85.438 84.425 84.662 83.542				
52	85.330 85.201 83.908 83.973 82.810				
53	85.308 84.985 83.478 83.392 82.142				

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**CANDELA TABULATION - (Cont.)**

54	85.179	84.662	82.961	82.659	81.345
55	84.124	83.564	81.776	81.345	80.139
56	82.142	81.561	79.687	79.127	78.223
57	79.386	78.998	76.952	76.392	75.595
58	76.220	75.897	73.808	73.183	72.731
59	72.408	72.192	70.103	69.543	69.199
60	68.122	67.971	66.054	65.537	65.193
61	63.620	63.427	61.768	61.316	60.799
62	58.968	58.732	57.396	57.009	56.255
63	54.403	54.036	53.067	52.723	51.797
64	49.966	49.557	48.911	48.588	47.532
65	45.766	45.422	44.969	44.689	43.677
66	41.803	41.588	41.287	41.071	40.080
67	38.293	38.142	37.970	37.754	36.936
68	35.192	35.062	34.998	34.782	34.072
69	32.349	32.327	32.263	32.133	31.487
70	29.786	29.850	29.829	29.721	29.140
71	27.524	27.567	27.567	27.503	26.986
72	25.457	25.500	25.478	25.435	24.918
73	23.497	23.540	23.518	23.475	23.045
74	21.623	21.666	21.645	21.645	21.257
75	19.814	19.836	19.836	19.857	19.470
76	18.005	18.070	18.070	18.091	17.747
77	16.239	16.282	16.325	16.347	16.088
78	14.430	14.430	14.516	14.559	14.408
79	12.535	12.535	12.685	12.750	12.599
80	10.510	10.532	10.661	10.812	10.682
81	8.119	8.292	8.313	8.486	8.356
82	4.652	4.846	5.018	5.061	5.061
83	2.197	2.240	2.434	2.563	2.649
84	2.003	2.003	2.024	2.024	1.960
85	1.831	1.852	1.874	1.874	1.831
86	1.658	1.658	1.658	1.658	1.637
87	1.400	1.421	1.421	1.400	1.378
88	1.098	1.098	1.120	1.098	1.077
89	0.732	0.711	0.732	0.732	0.711
90	0.366	0.409	0.431	0.474	0.431
91	0.366	0.366	0.388	0.388	0.366
92	0.388	0.366	0.388	0.388	0.366
93	0.388	0.366	0.388	0.388	0.388
94	0.409	0.388	0.409	0.409	0.388
95	0.409	0.409	0.409	0.409	0.409
96	0.409	0.409	0.409	0.409	0.409
97	0.431	0.431	0.409	0.431	0.409
98	0.431	0.452	0.431	0.431	0.431
99	0.431	0.452	0.452	0.452	0.431
100	0.474	0.452	0.452	0.474	0.431
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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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-L70-950-RDB-XXX-DIM-UNV-S-XXX\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	4572.49	N.A.	69.30
0-30	5754.41	N.A.	87.20
0-40	6368.78	N.A.	96.60
0-60	6525.59	N.A.	98.90
0-80	6592.13	N.A.	99.90
0-90	6595.39	N.A.	100.00
10-90	3857.89	N.A.	58.50
20-40	1796.29	N.A.	27.20
20-50	1881.75	N.A.	28.50
40-70	202.34	N.A.	3.10
60-80	66.54	N.A.	1.00
70-80	21.01	N.A.	0.30
80-90	3.26	N.A.	0.00
90-110	0.47	N.A.	0.00
90-120	0.47	N.A.	0.00
90-130	0.47	N.A.	0.00
90-150	0.47	N.A.	0.00
90-180	0.47	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	6595.87	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	2737.51
10-20	1834.98
20-30	1181.92
30-40	614.37
40-50	85.46
50-60	71.35
60-70	45.53
70-80	21.01
80-90	3.26
90-100	0.45
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	10.2	11.2	10.6	11.5	11.8	10.0	10.9	10.3	11.2	11.5
	3H	11.1	11.9	11.5	12.3	12.6	10.9	11.7	11.3	12.0	12.4
	4H	11.4	12.2	11.8	12.5	12.9	11.2	12.0	11.6	12.3	12.7
	6H	11.6	12.3	12.0	12.7	13.1	11.4	12.1	11.8	12.5	12.9
	8H	11.6	12.2	12.0	12.6	13.0	11.4	12.0	11.8	12.4	12.8
	12H	11.5	12.1	12.0	12.5	13.0	11.3	12.0	11.8	12.3	12.8

### UGR Viewed Endwise

4H	2H	10.4	11.2	10.9	11.6	12.0	10.2	11.0	10.6	11.3	11.7
	3H	11.5	12.1	11.9	12.5	12.9	11.3	11.9	11.7	12.3	12.8
	4H	11.9	12.5	12.4	12.9	13.3	11.8	12.3	12.2	12.7	13.2
	6H	12.2	12.7	12.7	13.1	13.6	12.0	12.5	12.5	13.0	13.4
	8H	12.2	12.6	12.6	13.1	13.5	12.0	12.5	12.5	12.9	13.4
	12H	12.1	12.5	12.6	13.0	13.5	12.0	12.4	12.5	12.9	13.3

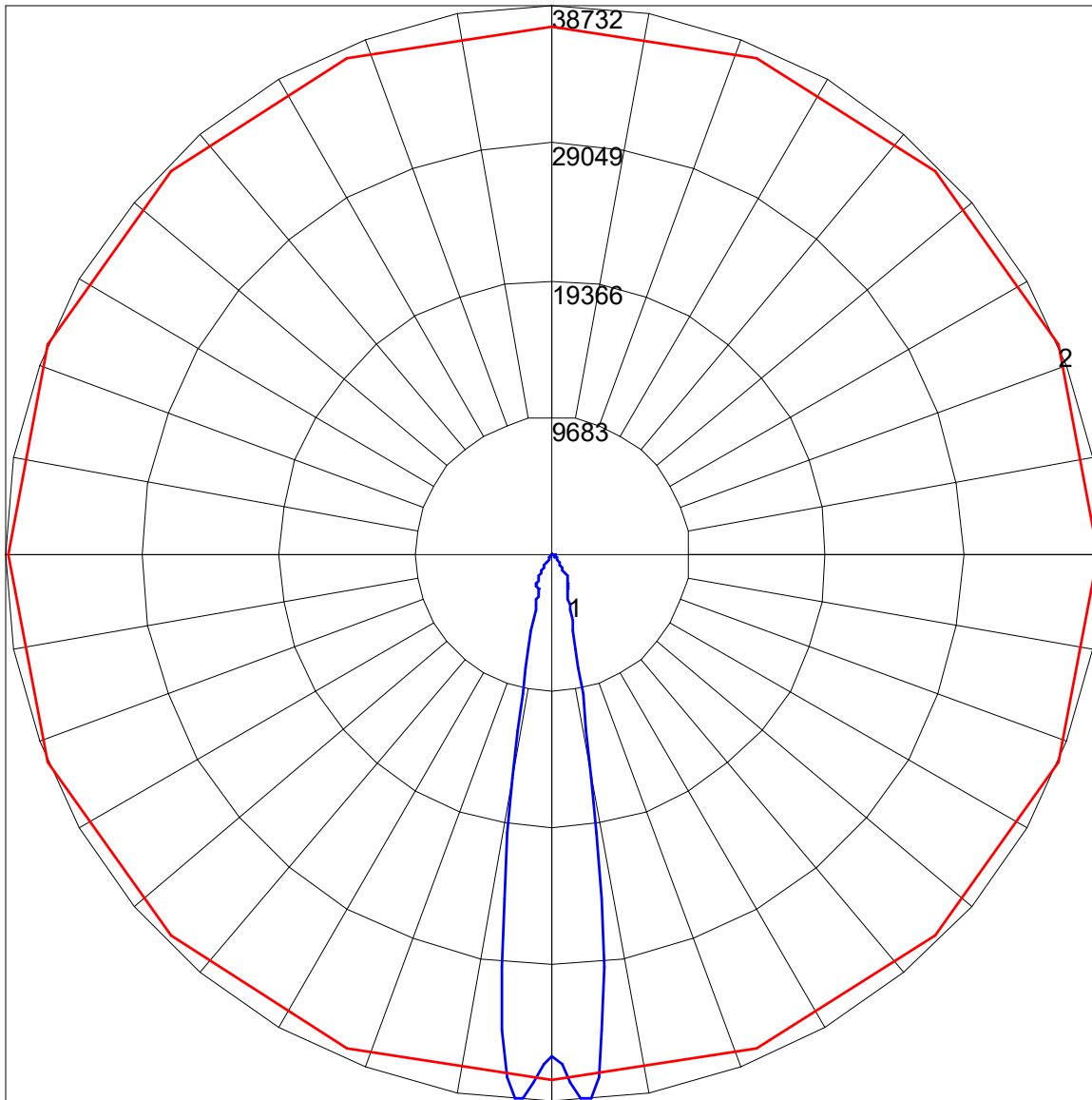
8H	4H	12.0	12.4	12.5	12.9	13.3	11.8	12.3	12.3	12.7	13.2
	6H	12.3	12.7	12.8	13.2	13.7	12.2	12.5	12.7	13.1	13.5
	8H	12.3	12.6	12.9	13.2	13.7	12.2	12.5	12.8	13.0	13.5
	12H	12.3	12.6	12.8	13.1	13.6	12.2	12.4	12.7	12.9	13.5

12H	4H	11.9	12.3	12.4	12.8	13.3	11.8	12.2	12.3	12.7	13.1
	6H	12.3	12.6	12.8	13.1	13.6	12.2	12.5	12.7	13.0	13.5
	8H	12.3	12.6	12.8	13.1	13.7	12.2	12.5	12.7	13.0	13.5

Maximum UGR = 13.7



POLAR GRAPH



Maximum Candela = 38731.67 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.)