

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : W6CR-XX-L60-835-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-L60-835-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	6171
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
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	6660	6846	6934
55	7559	7348	7201
65	5581	5484	5326
75	3946	3950	3877
85	1083	1108	1083

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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	33353.02233353.02233353.02233353.02233353.02233353.022				
1	33862.98333879.42633813.49333782.72533726.041				
2	35025.04335066.24834850.34234731.13334510.788				
3	36065.59936139.97335775.29435544.09135144.775				
4	36126.23036237.54035772.55535489.80734918.188				
5	34653.11034760.87534329.15734036.09433407.888				
6	31636.99131757.36831449.87731222.80430626.723				
7	27562.58527656.00227528.24927412.48626935.210				
8	23009.08723119.95423125.49623196.38322825.236				
9	18652.84018766.99018914.59019088.36618850.513				
10	14898.49915016.57915238.27115468.80915329.128				
11	11830.81511953.81212206.63712444.65112364.473				
12	9446.767 9566.419 9790.650 10019.8189951.529				
13	7649.955 7757.779 7954.848 8152.098 8078.268				
14	6299.652 6457.105 6590.157 6744.971 6644.804				
15	5341.571 5338.428 5523.205 5647.672 5623.633				
16	4492.120 4554.666 4675.728 4773.719 4718.286				
17	3911.956 3962.029 4061.833 4135.321 4087.504				
18	3476.047 3516.509 3593.986 3654.598 3618.146				
19	3156.405 3186.610 3246.899 3295.844 3265.639				
20	2919.459 2945.412 2989.904 3036.834 2999.435				
21	2764.544 2767.889 2811.555 2847.402 2804.442				
22	2635.603 2645.960 2661.758 2698.311 2671.027				
23	2545.713 2553.814 2563.929 2589.419 2562.055				
24	2473.515 2476.820 2482.945 2495.862 2473.052				
25	2412.440 2414.515 2413.307 2417.820 2390.517				
26	2354.246 2352.251 2339.295 2342.035 2309.533				
27	2288.113 2279.227 2258.553 2255.309 2223.955				
28	2204.188 2192.420 2158.608 2148.211 2124.151				
29	2095.155 2080.264 2035.672 2016.650 1996.742				
30	1952.915 1935.445 1885.614 1862.642 1837.817				
31	1774.102 1756.955 1708.695 1687.719 1657.715				
32	1568.006 1553.821 1512.775 1500.806 1473.945				
33	1337.488 1330.133 1304.301 1302.830 1288.624				
34	1099.212 1098.789 1092.120 1106.245 1102.598				
35	867.848 875.001 885.701 915.141 918.163				
36	660.906 675.132 700.199 738.524 743.219				
37	488.884 499.926 530.534 572.950 582.179				
38	338.140 355.751 395.810 437.662 446.488				
39	244.986 258.446 286.939 324.035 334.533				
40	170.692 184.616 214.559 237.853 243.112				
41	131.258 140.830 158.783 180.888 181.674				
42	108.952 114.695 125.153 136.598 140.165				
43	96.298 99.562 105.345 112.156 113.083				
44	89.427 91.059 94.121 97.849 97.285				
45	85.497 86.545 87.875 89.930 89.003				
46	83.200 84.026 84.470 85.820 84.812				
47	81.830 82.515 82.434 83.482 82.515				
48	81.024 81.487 81.145 81.931 81.044				
49	80.500 80.802 80.278 80.822 79.936				
50	80.137 80.258 79.553 79.956 78.989				
51	79.916 79.936 78.989 79.210 78.163				
52	79.835 79.714 78.505 78.566 77.477				
53	79.815 79.513 78.102 78.021 76.853				

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54	79.694	79.210	77.618	77.336	76.107
55	78.707	78.183	76.510	76.107	74.979
56	76.853	76.309	74.556	74.032	73.185
57	74.274	73.911	71.997	71.473	70.727
58	71.311	71.009	69.055	68.470	68.047
59	67.745	67.543	65.589	65.065	64.743
60	63.735	63.594	61.801	61.317	60.995
61	59.524	59.342	57.791	57.368	56.884
62	55.171	54.950	53.700	53.338	52.632
63	50.899	50.557	49.650	49.328	48.461
64	46.748	46.366	45.761	45.459	44.471
65	42.819	42.497	42.074	41.812	40.865
66	39.111	38.910	38.628	38.426	37.499
67	35.827	35.686	35.525	35.323	34.558
68	32.925	32.804	32.744	32.543	31.878
69	30.266	30.245	30.185	30.064	29.460
70	27.868	27.928	27.908	27.807	27.263
71	25.752	25.792	25.792	25.732	25.248
72	23.818	23.858	23.838	23.797	23.314
73	21.984	22.024	22.004	21.964	21.561
74	20.231	20.271	20.251	20.251	19.888
75	18.538	18.558	18.558	18.578	18.216
76	16.846	16.906	16.906	16.926	16.604
77	15.193	15.234	15.274	15.294	15.052
78	13.501	13.501	13.581	13.622	13.480
79	11.727	11.727	11.868	11.929	11.788
80	9.833	9.853	9.974	10.115	9.994
81	7.597	7.758	7.778	7.939	7.818
82	4.352	4.534	4.695	4.735	4.735
83	2.055	2.096	2.277	2.398	2.478
84	1.874	1.874	1.894	1.894	1.834
85	1.713	1.733	1.753	1.753	1.713
86	1.552	1.552	1.552	1.552	1.531
87	1.310	1.330	1.330	1.310	1.290
88	1.028	1.028	1.048	1.028	1.008
89	0.685	0.665	0.685	0.685	0.665
90	0.343	0.383	0.403	0.443	0.403
91	0.343	0.343	0.363	0.363	0.343
92	0.363	0.343	0.363	0.363	0.343
93	0.363	0.343	0.363	0.363	0.363
94	0.383	0.363	0.383	0.383	0.363
95	0.383	0.383	0.383	0.383	0.383
96	0.383	0.383	0.383	0.383	0.383
97	0.403	0.403	0.383	0.403	0.383
98	0.403	0.423	0.403	0.403	0.403
99	0.403	0.423	0.423	0.423	0.403
100	0.443	0.423	0.423	0.443	0.403
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	4278.04	N.A.	69.30
0-30	5383.85	N.A.	87.20
0-40	5958.66	N.A.	96.60
0-60	6105.37	N.A.	98.90
0-80	6167.63	N.A.	99.90
0-90	6170.68	N.A.	100.00
10-90	3609.46	N.A.	58.50
20-40	1680.62	N.A.	27.20
20-50	1760.57	N.A.	28.50
40-70	189.31	N.A.	3.10
60-80	62.26	N.A.	1.00
70-80	19.66	N.A.	0.30
80-90	3.05	N.A.	0.00
90-110	0.44	N.A.	0.00
90-120	0.44	N.A.	0.00
90-130	0.44	N.A.	0.00
90-150	0.44	N.A.	0.00
90-180	0.44	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	6171.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	2561.22
10-20	1716.82
20-30	1105.81
30-40	574.81
40-50	79.95
50-60	66.76
60-70	42.60
70-80	19.66
80-90	3.05
90-100	0.42
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	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	10.0	11.0	10.4	11.3	11.6	9.8	10.7	10.1	11.0	11.3
	3H	10.9	11.7	11.3	12.1	12.4	10.7	11.5	11.1	11.8	12.2
	4H	11.2	12.0	11.6	12.3	12.7	11.0	11.8	11.4	12.1	12.5
	6H	11.4	12.1	11.8	12.5	12.9	11.2	11.9	11.6	12.3	12.7
	8H	11.4	12.0	11.8	12.4	12.8	11.2	11.8	11.6	12.2	12.6
	12H	11.3	11.9	11.8	12.3	12.8	11.1	11.8	11.6	12.1	12.6

### UGR Viewed Endwise

4H	2H	10.2	11.0	10.7	11.4	11.8	10.0	10.8	10.4	11.1	11.5
	3H	11.3	11.9	11.7	12.3	12.7	11.1	11.7	11.5	12.1	12.6
	4H	11.7	12.3	12.2	12.7	13.1	11.6	12.1	12.0	12.5	13.0
	6H	12.0	12.5	12.5	12.9	13.4	11.8	12.3	12.3	12.8	13.2
	8H	12.0	12.4	12.4	12.9	13.3	11.8	12.3	12.3	12.7	13.2
	12H	11.9	12.3	12.4	12.8	13.3	11.8	12.2	12.3	12.7	13.1

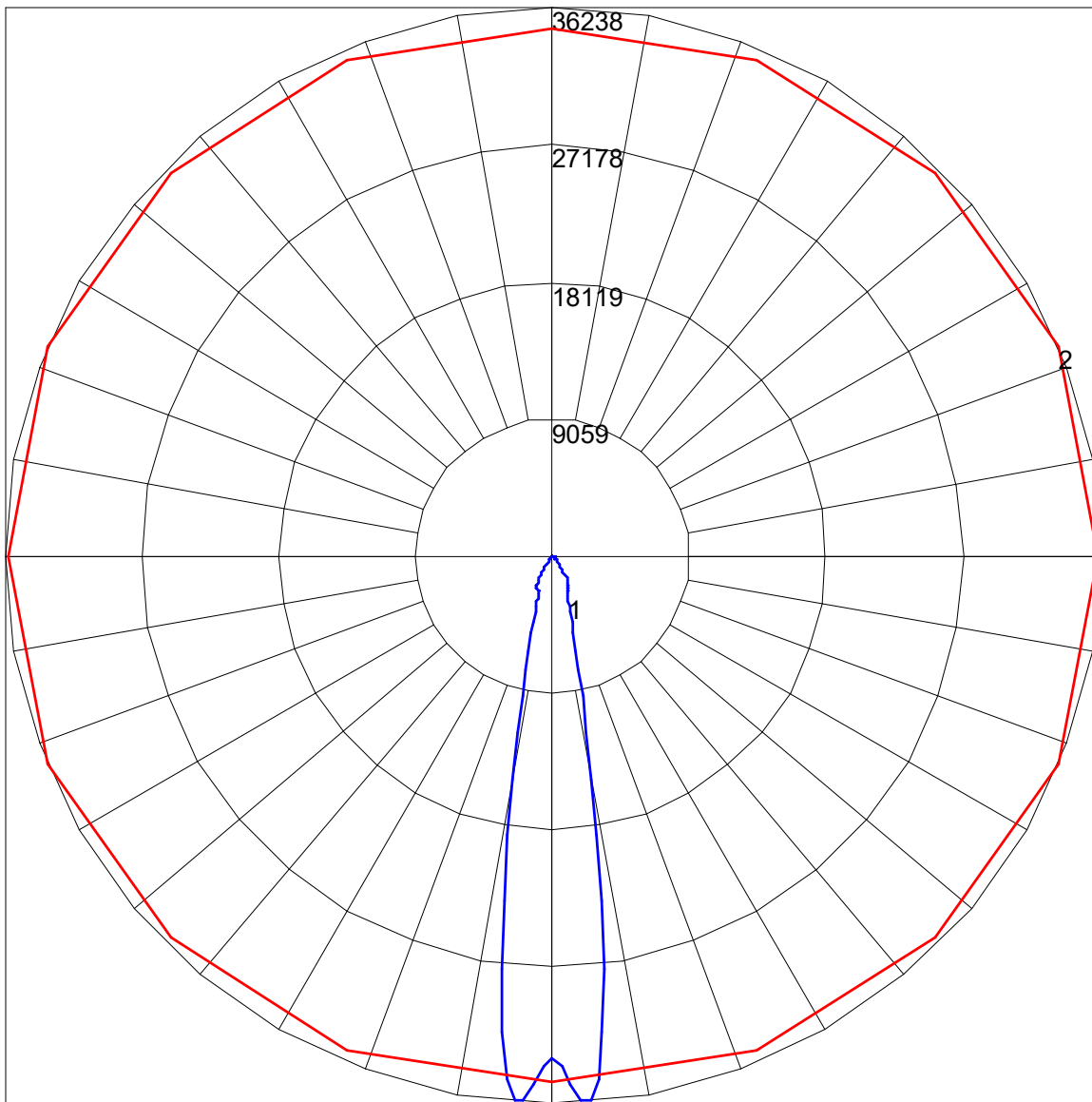
8H	4H	11.8	12.2	12.3	12.7	13.1	11.6	12.1	12.1	12.5	13.0
	6H	12.1	12.5	12.6	13.0	13.5	12.0	12.3	12.5	12.9	13.3
	8H	12.1	12.4	12.7	13.0	13.5	12.0	12.3	12.6	12.8	13.3
	12H	12.1	12.4	12.6	12.9	13.4	12.0	12.2	12.5	12.7	13.3

12H	4H	11.7	12.1	12.2	12.6	13.1	11.6	12.0	12.1	12.5	12.9
	6H	12.1	12.4	12.6	12.9	13.4	12.0	12.3	12.5	12.8	13.3
	8H	12.1	12.4	12.6	12.9	13.5	12.0	12.3	12.5	12.8	13.3

Maximum UGR = 13.5



POLAR GRAPH



Maximum Candela = 36237.54 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.)