

IES INDOOR REPORT

PHOTOMETRIC FILENAME : W6CR-XX-L60-930-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-L60-930-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	5924
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
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	6394	6572	6656
55	7257	7054	6913
65	5358	5265	5113
75	3788	3792	3722
85	1039	1064	1039

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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	32018.89732018.89732018.89732018.89732018.897				
1	32508.46032524.24532460.94932431.41232376.995				
2	33624.03633663.59433456.32433341.88433130.352				
3	34622.97034694.37034344.27834122.32333738.979				
4	34681.17634788.03434341.64834070.21033521.456				
5	33266.98233370.43532955.98632674.64632071.569				
6	30371.50730487.06930191.87829973.88829401.650				
7	26460.07826549.75826427.11526315.98325857.798				
8	22088.72122195.15322200.47322268.52521912.224				
9	17906.72418016.30818158.00418324.82918096.490				
10	14302.55714415.91414628.73914850.05514715.961				
11	11357.58111475.65811718.37011946.86311869.893				
12	9068.895 9183.761 9399.022 9619.024 9553.467				
13	7343.956 7447.467 7636.653 7826.013 7755.136				
14	6047.665 6198.820 6326.550 6475.171 6379.011				
15	5127.907 5124.890 5302.276 5421.765 5398.687				
16	4312.435 4372.479 4488.698 4582.769 4529.554				
17	3755.477 3803.547 3899.359 3969.907 3924.004				
18	3337.005 3375.848 3450.226 3508.414 3473.420				
19	3030.148 3059.145 3117.023 3164.010 3135.013				
20	2802.680 2827.595 2870.307 2915.360 2879.457				
21	2653.962 2657.173 2699.092 2733.505 2692.264				
22	2530.179 2540.122 2555.287 2590.378 2564.186				
23	2443.884 2451.661 2461.372 2485.842 2459.573				
24	2374.574 2377.747 2383.627 2396.027 2374.129				
25	2315.942 2317.935 2316.774 2321.107 2294.896				
26	2260.076 2258.161 2245.723 2248.354 2217.151				
27	2196.589 2188.058 2168.211 2165.096 2134.997				
28	2116.020 2104.723 2072.264 2062.282 2039.185				
29	2011.349 1997.053 1954.245 1935.984 1916.872				
30	1874.798 1858.027 1810.189 1788.136 1764.304				
31	1703.138 1686.676 1640.347 1620.210 1591.406				
32	1505.286 1491.668 1452.264 1440.773 1414.987				
33	1283.989 1276.928 1252.129 1250.717 1237.079				
34	1055.244 1054.838 1048.435 1061.995 1058.494				
35	833.134 840.001 850.273 878.535 881.436				
36	634.469 648.126 672.191 708.983 713.490				
37	469.328 479.929 509.313 550.032 558.892				
38	324.615 341.521 379.978 420.155 428.628				
39	235.186 248.108 275.461 311.074 321.152				
40	163.864 177.231 205.977 228.339 233.387				
41	126.008 135.196 152.432 173.653 174.407				
42	104.594 110.107 120.147 131.134 134.558				
43	92.446 95.580 101.131 107.670 108.559				
44	85.849 87.416 90.357 93.935 93.394				
45	82.077 83.083 84.360 86.333 85.443				
46	79.872 80.665 81.091 82.387 81.420				
47	78.557 79.214 79.137 80.143 79.214				
48	77.783 78.228 77.899 78.653 77.802				
49	77.280 77.570 77.067 77.589 76.738				
50	76.932 77.048 76.371 76.758 75.829				
51	76.719 76.738 75.829 76.042 75.036				
52	76.642 76.526 75.365 75.423 74.378				
53	76.622 76.332 74.978 74.901 73.779				

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PHOTOMETRIC FILENAME : W6CR-XX-L60-930-XXX-DIM-UNV-S-XXX_.IES

CANDELA TABULATION - (Cont.)

54	76.506	76.042	74.514	74.243	73.063
55	75.558	75.055	73.450	73.063	71.980
56	73.779	73.256	71.573	71.070	70.258
57	71.303	70.954	69.117	68.614	67.898
58	68.459	68.169	66.292	65.731	65.325
59	65.035	64.842	62.965	62.462	62.153
60	61.186	61.050	59.329	58.864	58.555
61	57.143	56.969	55.479	55.073	54.609
62	52.964	52.752	51.552	51.204	50.527
63	48.863	48.535	47.664	47.355	46.523
64	44.878	44.511	43.931	43.640	42.693
65	41.106	40.797	40.391	40.139	39.230
66	37.547	37.354	37.083	36.889	36.000
67	34.394	34.259	34.104	33.910	33.175
68	31.608	31.492	31.434	31.241	30.602
69	29.055	29.036	28.978	28.862	28.281
70	26.753	26.811	26.792	26.695	26.173
71	24.722	24.761	24.761	24.703	24.238
72	22.865	22.903	22.884	22.845	22.381
73	21.104	21.143	21.124	21.085	20.698
74	19.422	19.460	19.441	19.441	19.093
75	17.797	17.816	17.816	17.835	17.487
76	16.172	16.230	16.230	16.249	15.940
77	14.586	14.624	14.663	14.682	14.450
78	12.961	12.961	13.038	13.077	12.941
79	11.258	11.258	11.394	11.452	11.316
80	9.440	9.459	9.575	9.711	9.595
81	7.293	7.448	7.467	7.622	7.506
82	4.178	4.352	4.507	4.546	4.546
83	1.973	2.012	2.186	2.302	2.379
84	1.799	1.799	1.818	1.818	1.760
85	1.644	1.664	1.683	1.683	1.644
86	1.490	1.490	1.490	1.490	1.470
87	1.257	1.277	1.277	1.257	1.238
88	0.987	0.987	1.006	0.987	0.967
89	0.658	0.638	0.658	0.658	0.638
90	0.329	0.368	0.387	0.426	0.387
91	0.329	0.329	0.348	0.348	0.329
92	0.348	0.329	0.348	0.348	0.329
93	0.348	0.329	0.348	0.348	0.348
94	0.368	0.348	0.368	0.368	0.348
95	0.368	0.368	0.368	0.368	0.368
96	0.368	0.368	0.368	0.368	0.368
97	0.387	0.387	0.368	0.387	0.368
98	0.387	0.406	0.387	0.387	0.387
99	0.387	0.406	0.406	0.406	0.387
100	0.426	0.406	0.406	0.426	0.387
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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PHOTOMETRIC FILENAME : W6CR-XX-L60-930-XXX-DIM-UNV-S-XXX_.IES

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	4106.92	N.A.	69.30
0-30	5168.5	N.A.	87.20
0-40	5720.31	N.A.	96.60
0-60	5861.16	N.A.	98.90
0-80	5920.93	N.A.	99.90
0-90	5923.85	N.A.	100.00
10-90	3465.08	N.A.	58.50
20-40	1613.39	N.A.	27.20
20-50	1690.15	N.A.	28.50
40-70	181.74	N.A.	3.10
60-80	59.77	N.A.	1.00
70-80	18.87	N.A.	0.30
80-90	2.93	N.A.	0.00
90-110	0.42	N.A.	0.00
90-120	0.42	N.A.	0.00
90-130	0.42	N.A.	0.00
90-150	0.42	N.A.	0.00
90-180	0.42	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	5924.28	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2458.78
10-20	1648.15
20-30	1061.58
30-40	551.82
40-50	76.76
50-60	64.09
60-70	40.90
70-80	18.87
80-90	2.93
90-100	0.40
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	76	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	9.8	10.8	10.2	11.1	11.4	9.6	10.5	9.9	10.8	11.1
	3H	10.7	11.5	11.1	11.9	12.2	10.5	11.3	10.9	11.6	12.0
	4H	11.0	11.8	11.4	12.1	12.5	10.8	11.6	11.2	11.9	12.3
	6H	11.2	11.9	11.6	12.3	12.7	11.0	11.7	11.4	12.1	12.5
	8H	11.2	11.8	11.6	12.2	12.6	11.0	11.6	11.4	12.0	12.4
	12H	11.1	11.7	11.6	12.1	12.6	10.9	11.6	11.4	11.9	12.4

UGR Viewed Endwise

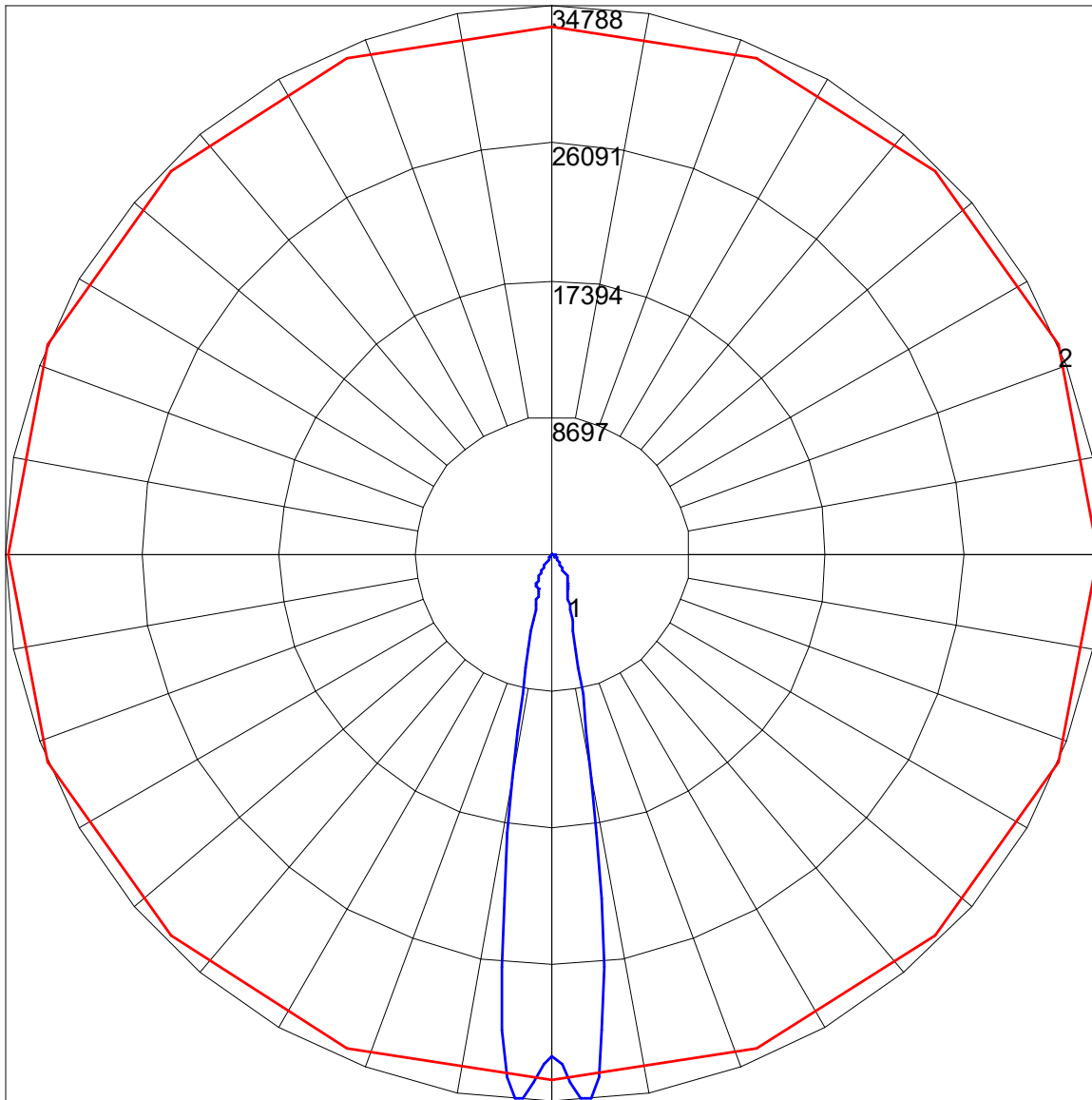
4H	2H	10.0	10.8	10.5	11.2	11.6	9.8	10.6	10.2	10.9	11.3
	3H	11.1	11.7	11.5	12.1	12.5	10.9	11.5	11.3	11.9	12.4
	4H	11.5	12.1	12.0	12.5	12.9	11.4	11.9	11.8	12.3	12.8
	6H	11.8	12.3	12.3	12.7	13.2	11.6	12.1	12.1	12.6	13.0
	8H	11.8	12.2	12.2	12.7	13.1	11.6	12.1	12.1	12.5	13.0
	12H	11.7	12.1	12.2	12.6	13.1	11.6	12.0	12.1	12.5	12.9

8H	4H	11.6	12.0	12.1	12.5	12.9	11.4	11.9	11.9	12.3	12.8
	6H	11.9	12.3	12.4	12.8	13.3	11.8	12.1	12.3	12.7	13.1
	8H	11.9	12.2	12.5	12.8	13.3	11.8	12.1	12.4	12.6	13.1
	12H	11.9	12.2	12.4	12.6	13.2	11.8	12.0	12.3	12.5	13.1

12H	4H	11.5	11.9	12.0	12.4	12.9	11.4	11.8	11.9	12.3	12.7
	6H	11.9	12.2	12.4	12.7	13.2	11.8	12.1	12.3	12.6	13.1
	8H	11.9	12.2	12.4	12.7	13.3	11.8	12.1	12.3	12.6	13.1

Maximum UGR = 13.3

POLAR GRAPH



Maximum Candela = 34788.034 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.)