

IES INDOOR REPORT

PHOTOMETRIC FILENAME : W6CR-XX-L70-930-RDB-XXX-DIM-UNV-N-XXX_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] W6CR_Angela-M_(V22)_measured
[TESTLAB] LEDIL Inc
[TESTDATE] 21 Aug 2024
[ISSUE DATE] 2025-07-15
[MANUFAC] H.E. WILLIAMS, INC.
[LUMCAT] W6CR-xx-L70-930-RDB-xxx-DIM-UNV-N-xxx
[LUMINAIRE] 6 INCH ROUND WET LOCATION LED
[MORE] CYLINDER WITH NARROW DIST.
[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	5947
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
Total Luminaire Watts	63.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.44
Spacing Criterion (90-270)	0.46
Spacing Criterion (Diagonal)	0.52
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	23167	23165	22691
55	13851	13620	13221
65	8212	8085	7873
75	5412	5352	5265
85	1327	1327	1313

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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	14730.810	14730.810	14730.810	14730.810	14730.810
1	14664.759	14670.322	14680.385	14693.003	14695.469
2	14478.336	14498.787	14540.297	14585.983	14599.552
3	14174.613	14215.949	14306.044	14404.515	14432.628
4	13759.629	13825.009	13973.754	14117.067	14159.529
5	13239.465	13324.172	13517.760	13699.378	13747.077
6	12624.533	12722.657	12937.800	13145.735	13195.295
7	11935.345	12036.587	12261.965	12466.330	12519.569
8	11180.800	11283.058	11497.313	11700.379	11742.040
9	10397.839	10497.846	10695.740	10885.539	10929.407
10	9626.542	9712.764	9896.850	10066.609	10114.135
11	8871.087	8941.684	9108.564	9260.383	9303.601
12	8150.758	8211.529	8361.010	8497.461	8529.037
13	7490.377	7539.049	7668.944	7793.494	7811.759
14	6877.910	6928.055	7036.892	7154.039	7151.594
15	6338.247	6369.736	6473.726	6559.558	6565.055
16	5828.147	5862.320	5963.929	6041.688	6058.980
17	5390.504	5424.525	5506.613	5568.942	5587.446
18	5014.281	5041.896	5115.457	5164.563	5184.928
19	4688.484	4714.129	4776.480	4816.453	4836.082
20	4412.917	4435.533	4485.223	4524.048	4529.286
21	4175.570	4193.035	4232.510	4269.561	4268.934
22	3973.024	3983.239	4013.862	4047.277	4054.917
23	3800.126	3801.944	3827.482	3849.989	3862.758
24	3640.755	3639.716	3661.510	3674.387	3690.120
25	3497.984	3494.651	3506.510	3512.938	3523.110
26	3360.795	3353.870	3355.645	3358.545	3361.315
27	3222.330	3208.739	3201.554	3198.351	3200.429
28	3069.712	3052.679	3032.747	3034.262	3032.336
29	2892.334	2877.293	2843.683	2831.910	2832.884
30	2704.115	2675.872	2635.098	2611.379	2619.841
31	2470.533	2444.974	2405.305	2382.451	2374.227
32	2209.813	2189.210	2153.847	2136.447	2127.660
33	1928.122	1913.708	1892.586	1885.682	1884.946
34	1640.544	1633.835	1630.416	1640.176	1650.975
35	1363.268	1364.978	1376.513	1404.085	1422.329
36	1113.390	1118.887	1146.156	1181.779	1200.607
37	894.461	905.736	939.779	980.314	993.819
38	716.607	740.608	765.929	805.491	812.935
39	594.807	611.319	633.243	665.186	666.506
40	488.913	500.946	528.626	551.458	560.785
41	424.160	432.470	447.750	461.449	465.604
42	379.469	383.733	392.411	399.423	401.068
43	345.968	348.067	351.963	354.430	353.196
44	319.716	320.214	321.837	320.647	319.435
45	297.382	297.750	297.360	295.109	291.279
46	277.623	277.255	275.740	272.580	269.745
47	258.989	258.534	256.370	253.167	250.462
48	241.567	241.069	238.710	235.334	232.759
49	225.076	224.492	222.154	218.821	216.311
50	209.342	208.693	206.507	203.239	200.924
51	194.647	193.933	191.791	188.761	186.532
52	180.688	180.039	177.940	175.170	172.984
53	167.747	167.097	165.193	162.574	160.432

IES INDOOR REPORT**PHOTOMETRIC FILENAME : W6CR-XX-L70-930-RDB-XXX-DIM-UNV-N-XXX_.IES****CANDELA TABULATION - (Cont.)**

54	155.714	155.043	153.203	150.714	148.658
55	144.222	143.551	141.819	139.417	137.664
56	132.946	132.319	130.717	128.575	126.952
57	122.277	121.736	120.199	118.273	116.845
58	112.538	112.019	110.677	108.837	107.647
59	103.448	102.951	101.804	100.116	99.033
60	95.138	94.705	93.601	92.173	91.156
61	87.542	87.109	86.135	84.793	83.798
62	80.616	80.140	79.274	78.149	77.175
63	74.188	73.842	73.020	72.046	71.115
64	68.302	67.956	67.263	66.354	65.553
65	63.000	62.588	62.026	61.182	60.403
66	57.935	57.611	57.070	56.356	55.641
67	53.304	53.001	52.547	51.919	51.291
68	49.106	48.781	48.391	47.807	47.244
69	45.037	44.842	44.431	43.955	43.392
70	41.336	41.098	40.773	40.341	39.843
71	37.830	37.592	37.332	36.943	36.510
72	34.562	34.302	34.086	33.718	33.372
73	31.381	31.164	30.970	30.667	30.364
74	28.351	28.178	27.983	27.745	27.464
75	25.429	25.299	25.148	24.975	24.737
76	22.573	22.486	22.378	22.226	22.053
77	19.802	19.759	19.694	19.629	19.478
78	17.075	17.032	17.054	17.011	16.946
79	14.370	14.370	14.435	14.500	14.414
80	11.687	11.708	11.773	11.946	11.860
81	8.830	8.916	8.960	9.111	9.025
82	5.107	5.237	5.410	5.432	5.497
83	2.510	2.532	2.749	2.878	3.095
84	2.294	2.272	2.272	2.294	2.272
85	2.099	2.121	2.099	2.099	2.078
86	1.883	1.883	1.883	1.883	1.861
87	1.602	1.602	1.602	1.602	1.580
88	1.255	1.255	1.234	1.234	1.234
89	0.822	0.822	0.822	0.822	0.822
90	0.433	0.476	0.498	0.519	0.541
91	0.433	0.433	0.433	0.433	0.411
92	0.433	0.454	0.454	0.433	0.433
93	0.454	0.454	0.454	0.454	0.433
94	0.454	0.454	0.454	0.454	0.454
95	0.476	0.476	0.476	0.454	0.454
96	0.498	0.498	0.498	0.476	0.476
97	0.498	0.519	0.519	0.498	0.498
98	0.541	0.541	0.541	0.519	0.519
99	0.584	0.563	0.563	0.563	0.563
100	0.584	0.563	0.563	0.563	0.584
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	2988.81	N.A.	50.30
0-30	4596.42	N.A.	77.30
0-40	5483.47	N.A.	92.20
0-60	5853.34	N.A.	98.40
0-80	5942.99	N.A.	99.90
0-90	5946.59	N.A.	100.00
10-90	4777.8	N.A.	80.30
20-40	2494.65	N.A.	41.90
20-50	2736.39	N.A.	46.00
40-70	432.66	N.A.	7.30
60-80	89.65	N.A.	1.50
70-80	26.86	N.A.	0.50
80-90	3.60	N.A.	0.10
90-110	0.56	N.A.	0.00
90-120	0.56	N.A.	0.00
90-130	0.56	N.A.	0.00
90-150	0.56	N.A.	0.00
90-180	0.56	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	5947.15	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1168.79
10-20	1820.02
20-30	1607.6
30-40	887.05
40-50	241.74
50-60	128.14
60-70	62.79
70-80	26.86
80-90	3.60
90-100	0.53
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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88
3	104	98	93	89	102	96	92	88	94	90	87	91	88	86	89	87	84	83
4	99	92	87	83	97	91	86	82	89	85	81	87	83	80	85	82	79	78
5	95	87	81	77	93	86	81	77	84	80	76	83	79	76	81	78	75	74
6	90	82	77	73	89	81	76	73	80	75	72	79	75	72	77	74	71	70
7	87	78	73	69	85	77	72	69	76	72	68	75	71	68	74	70	67	66
8	83	74	69	65	82	74	69	65	73	68	65	72	68	64	71	67	64	63
9	80	71	66	62	79	70	65	62	70	65	62	69	64	61	68	64	61	60
10	77	68	63	59	76	67	62	59	67	62	59	66	62	59	65	61	58	57

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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

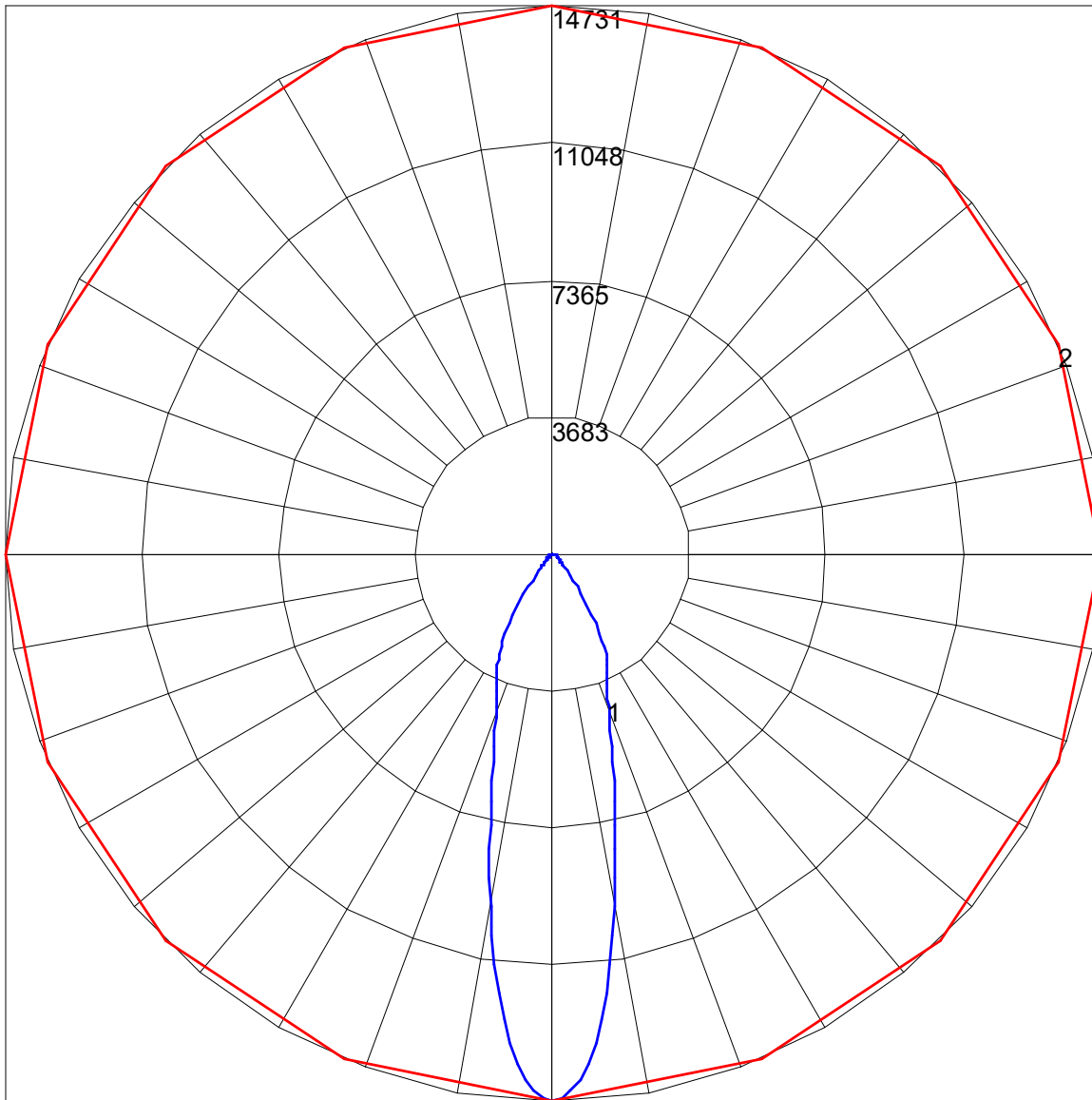
X=2H	Y=2H	13.4	14.4	13.7	14.7	15.0	13.2	14.1	13.5	14.5	14.8
	3H	14.1	15.0	14.5	15.3	15.7	13.9	14.8	14.3	15.1	15.5
	4H	14.4	15.2	14.8	15.5	15.9	14.1	14.9	14.5	15.3	15.7
	6H	14.5	15.2	14.9	15.6	16.0	14.3	15.0	14.7	15.4	15.7
	8H	14.4	15.1	14.8	15.5	15.9	14.2	14.9	14.6	15.3	15.7
	12H	14.4	15.0	14.8	15.4	15.8	14.2	14.8	14.6	15.2	15.6

UGR Viewed Endwise

4H	2H	13.5	14.3	13.9	14.7	15.1	13.3	14.1	13.7	14.5	14.9
	3H	14.5	15.1	14.9	15.5	15.9	14.3	14.9	14.7	15.3	15.7
	4H	14.8	15.3	15.2	15.8	16.2	14.6	15.2	15.0	15.6	16.0
	6H	14.9	15.4	15.4	15.9	16.3	14.8	15.3	15.2	15.7	16.2
	8H	14.9	15.3	15.4	15.8	16.3	14.7	15.2	15.2	15.6	16.1
	12H	14.8	15.2	15.3	15.7	16.2	14.7	15.1	15.2	15.6	16.0
8H	4H	14.8	15.2	15.3	15.7	16.2	14.6	15.1	15.1	15.5	16.0
	6H	15.0	15.3	15.5	15.9	16.3	14.8	15.2	15.3	15.7	16.2
	8H	15.0	15.3	15.5	15.8	16.3	14.8	15.1	15.4	15.7	16.2
	12H	14.9	15.2	15.4	15.7	16.3	14.8	15.0	15.3	15.5	16.1
12H	4H	14.7	15.1	15.2	15.6	16.1	14.6	15.0	15.1	15.5	15.9
	6H	14.9	15.3	15.5	15.7	16.3	14.8	15.1	15.3	15.6	16.1
	8H	14.9	15.2	15.5	15.7	16.3	14.8	15.1	15.3	15.6	16.1

Maximum UGR = 16.3

POLAR GRAPH



Maximum Candela = 14730.81 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)