

IES INDOOR REPORT

PHOTOMETRIC FILENAME : W6CR-XX-L70-830-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-L70-830-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	6195
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
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	24132	24130	23637
55	14428	14188	13772
65	8554	8422	8201
75	5638	5575	5484
85	1382	1382	1368

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	15344.597	15344.597	15344.597	15344.597	15344.597
1	15275.794	15281.589	15292.071	15305.214	15307.783
2	15081.604	15102.907	15146.146	15193.735	15207.870
3	14765.225	14808.284	14902.133	15004.706	15033.991
4	14332.950	14401.055	14555.997	14705.282	14749.513
5	13791.113	13879.349	14081.003	14270.189	14319.875
6	13150.558	13252.770	13476.877	13693.477	13745.102
7	12432.654	12538.114	12772.883	12985.763	13041.221
8	11646.669	11753.188	11976.370	12187.898	12231.294
9	10831.085	10935.259	11141.398	11339.106	11384.802
10	10027.651	10117.464	10309.221	10486.053	10535.559
11	9240.718	9314.256	9488.090	9646.234	9691.253
12	8490.375	8553.678	8709.387	8851.524	8884.416
13	7802.477	7853.178	7988.485	8118.224	8137.251
14	7164.492	7216.725	7330.097	7452.126	7449.579
15	6602.342	6635.143	6743.466	6832.874	6838.600
16	6070.988	6106.585	6212.427	6293.426	6311.439
17	5615.110	5650.549	5736.057	5800.982	5820.257
18	5223.211	5251.976	5328.602	5379.754	5400.968
19	4883.838	4910.553	4975.501	5017.139	5037.586
20	4596.790	4620.348	4672.108	4712.551	4718.007
21	4349.553	4367.746	4408.866	4447.460	4446.807
22	4138.567	4149.208	4181.107	4215.914	4223.872
23	3958.466	3960.359	3986.961	4010.406	4023.707
24	3792.454	3791.372	3814.074	3827.487	3843.876
25	3643.734	3640.262	3652.616	3659.311	3669.907
26	3500.829	3493.615	3495.464	3498.485	3501.370
27	3356.595	3342.437	3334.953	3331.616	3333.781
28	3197.617	3179.875	3159.112	3160.690	3158.684
29	3012.849	2997.181	2962.171	2949.907	2950.921
30	2816.787	2787.367	2744.895	2720.187	2729.002
31	2573.473	2546.849	2505.526	2481.720	2473.154
32	2301.889	2280.428	2243.591	2225.466	2216.313
33	2008.461	1993.447	1971.444	1964.253	1963.486
34	1708.900	1701.912	1698.350	1708.517	1719.766
35	1420.071	1421.852	1433.868	1462.588	1481.593
36	1159.782	1165.508	1193.913	1231.020	1250.633
37	931.730	943.475	978.936	1021.161	1035.228
38	746.466	771.467	797.843	839.053	846.808
39	619.590	636.791	659.628	692.902	694.277
40	509.284	521.818	550.652	574.435	584.152
41	441.833	450.490	466.406	480.676	485.005
42	395.281	399.722	408.762	416.066	417.779
43	360.383	362.570	366.628	369.198	367.913
44	333.038	333.556	335.247	334.007	332.745
45	309.773	310.156	309.750	307.406	303.415
46	289.190	288.807	287.229	283.938	280.984
47	269.780	269.307	267.052	263.716	260.898
48	251.632	251.114	248.657	245.140	242.457
49	234.454	233.846	231.411	227.939	225.324
50	218.065	217.389	215.112	211.708	209.295
51	202.758	202.014	199.782	196.626	194.304
52	188.217	187.541	185.354	182.468	180.192
53	174.736	174.060	172.076	169.348	167.116

IES INDOOR REPORT**PHOTOMETRIC FILENAME : W6CR-XX-L70-830-RDB-XXX-DIM-UNV-N-XXX_.IES****CANDELA TABULATION - (Cont.)**

54	162.202	161.503	159.587	156.994	154.852
55	150.231	149.532	147.729	145.226	143.400
56	138.486	137.832	136.164	133.932	132.241
57	127.372	126.808	125.208	123.201	121.713
58	117.227	116.686	115.288	113.372	112.132
59	107.759	107.240	106.045	104.287	103.160
60	99.102	98.651	97.501	96.013	94.954
61	91.189	90.738	89.724	88.326	87.289
62	83.975	83.479	82.577	81.405	80.391
63	77.280	76.919	76.062	75.048	74.079
64	71.148	70.787	70.066	69.119	68.285
65	65.625	65.196	64.610	63.731	62.919
66	60.349	60.011	59.448	58.704	57.960
67	55.525	55.209	54.736	54.082	53.429
68	51.152	50.813	50.408	49.799	49.213
69	46.913	46.710	46.282	45.786	45.200
70	43.058	42.810	42.472	42.021	41.503
71	39.406	39.158	38.888	38.482	38.031
72	36.002	35.732	35.506	35.123	34.762
73	32.688	32.463	32.260	31.944	31.629
74	29.532	29.352	29.149	28.901	28.608
75	26.489	26.354	26.196	26.015	25.767
76	23.513	23.423	23.310	23.152	22.972
77	20.627	20.582	20.515	20.447	20.289
78	17.787	17.742	17.764	17.719	17.652
79	14.969	14.969	15.037	15.104	15.014
80	12.174	12.196	12.264	12.444	12.354
81	9.198	9.288	9.333	9.491	9.401
82	5.320	5.456	5.636	5.658	5.726
83	2.615	2.638	2.863	2.998	3.224
84	2.390	2.367	2.367	2.390	2.367
85	2.187	2.209	2.187	2.187	2.164
86	1.961	1.961	1.961	1.961	1.939
87	1.668	1.668	1.668	1.668	1.646
88	1.308	1.308	1.285	1.285	1.285
89	0.857	0.857	0.857	0.857	0.857
90	0.451	0.496	0.519	0.541	0.564
91	0.451	0.451	0.451	0.451	0.428
92	0.451	0.473	0.473	0.451	0.451
93	0.473	0.473	0.473	0.473	0.451
94	0.473	0.473	0.473	0.473	0.473
95	0.496	0.496	0.496	0.473	0.473
96	0.519	0.519	0.519	0.496	0.496
97	0.519	0.541	0.541	0.519	0.519
98	0.564	0.564	0.564	0.541	0.541
99	0.609	0.586	0.586	0.586	0.586
100	0.609	0.586	0.586	0.586	0.609
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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CANDELA TABULATION - (Cont.)

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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Zone	Lumens	%Lamp	%Fixt
0-20	3113.35	N.A.	50.30
0-30	4787.93	N.A.	77.30
0-40	5711.94	N.A.	92.20
0-60	6097.23	N.A.	98.40
0-80	6190.62	N.A.	99.90
0-90	6194.37	N.A.	100.00
10-90	4976.87	N.A.	80.30
20-40	2598.6	N.A.	41.90
20-50	2850.41	N.A.	46.00
40-70	450.69	N.A.	7.30
60-80	93.38	N.A.	1.50
70-80	27.98	N.A.	0.50
80-90	3.75	N.A.	0.10
90-110	0.59	N.A.	0.00
90-120	0.59	N.A.	0.00
90-130	0.59	N.A.	0.00
90-150	0.59	N.A.	0.00
90-180	0.59	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	6194.95	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1217.49
10-20	1895.85
20-30	1674.59
30-40	924.01
40-50	251.81
50-60	133.48
60-70	65.40
70-80	27.98
80-90	3.75
90-100	0.55
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

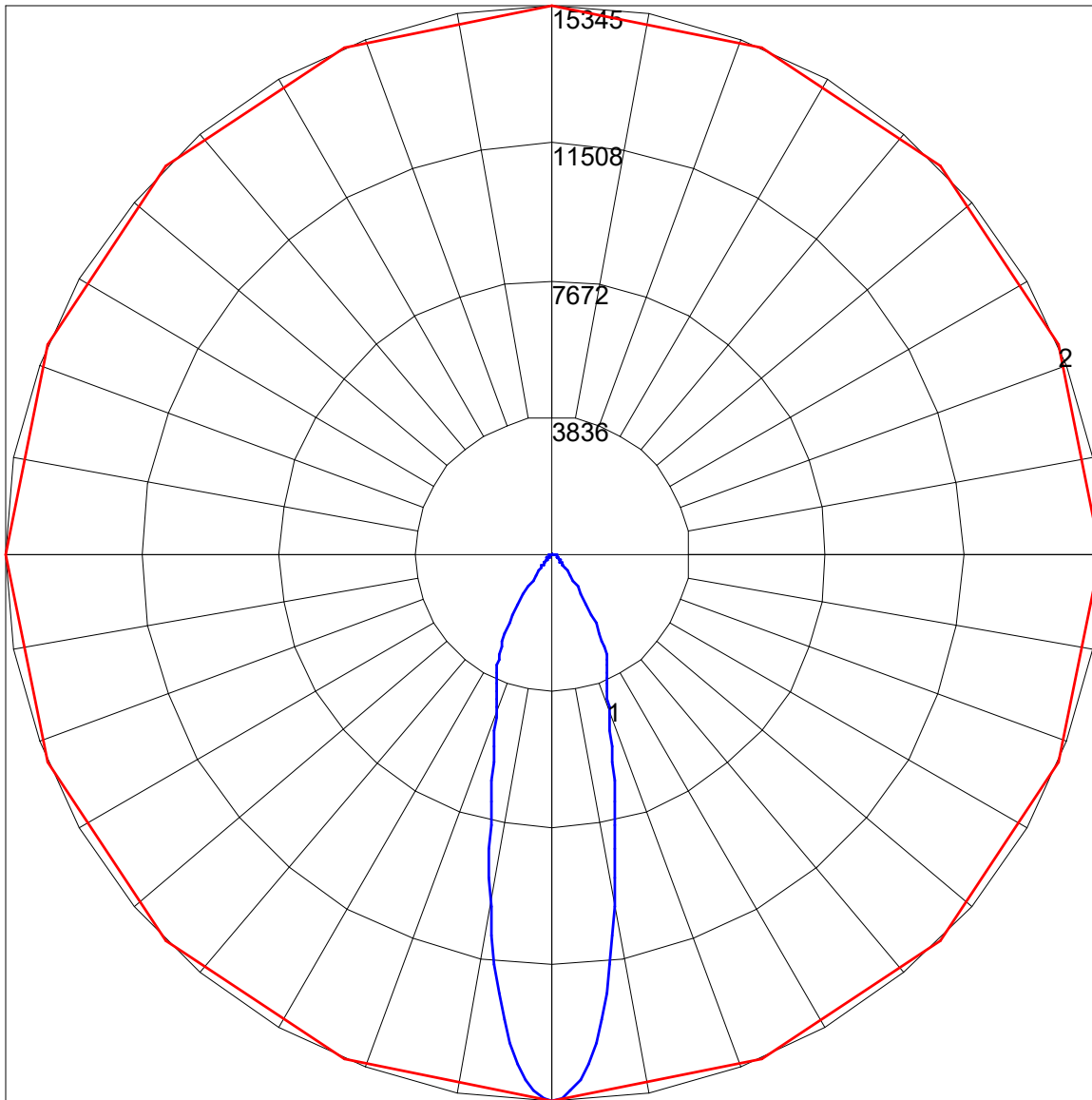
X=2H	Y=2H	13.5	14.5	13.8	14.8	15.1	13.3	14.2	13.6	14.6	14.9
	3H	14.2	15.1	14.6	15.4	15.8	14.0	14.9	14.4	15.2	15.6
	4H	14.5	15.3	14.9	15.6	16.0	14.2	15.0	14.6	15.4	15.8
	6H	14.6	15.3	15.0	15.7	16.0	14.4	15.1	14.8	15.5	15.8
	8H	14.5	15.2	14.9	15.6	16.0	14.3	15.0	14.7	15.4	15.8
	12H	14.5	15.1	14.9	15.5	15.9	14.3	14.9	14.7	15.3	15.7

UGR Viewed Endwise

4H	2H	13.6	14.4	14.0	14.8	15.2	13.4	14.2	13.8	14.6	15.0
	3H	14.6	15.2	15.0	15.6	16.0	14.4	15.0	14.8	15.4	15.8
	4H	14.9	15.4	15.3	15.9	16.3	14.7	15.3	15.1	15.7	16.1
	6H	15.0	15.5	15.5	16.0	16.4	14.9	15.3	15.3	15.8	16.3
	8H	15.0	15.4	15.5	15.9	16.4	14.8	15.3	15.3	15.7	16.2
	12H	14.9	15.3	15.4	15.8	16.3	14.8	15.2	15.3	15.7	16.1
8H	4H	14.9	15.3	15.4	15.8	16.3	14.7	15.2	15.2	15.6	16.1
	6H	15.1	15.4	15.6	16.0	16.4	14.9	15.3	15.4	15.8	16.3
	8H	15.1	15.4	15.6	15.9	16.4	14.9	15.2	15.4	15.8	16.3
	12H	15.0	15.3	15.5	15.8	16.4	14.9	15.1	15.4	15.6	16.2
12H	4H	14.8	15.2	15.3	15.7	16.2	14.7	15.1	15.2	15.6	16.0
	6H	15.0	15.4	15.6	15.8	16.4	14.9	15.2	15.4	15.7	16.2
	8H	15.0	15.3	15.6	15.8	16.4	14.9	15.2	15.4	15.7	16.2

Maximum UGR = 16.4

POLAR GRAPH



Maximum Candela = 15344.597 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.)