

IES INDOOR REPORT

PHOTOMETRIC FILENAME : W6CR-XX-L70-935-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-L70-935-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	6009
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
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	23408	23407	22928
55	13995	13762	13359
65	8297	8169	7955
75	5469	5408	5320
85	1341	1341	1327

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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	14884.260	14884.260	14884.260	14884.260	14884.260
1	14817.520	14823.141	14833.309	14846.058	14848.550
2	14629.156	14649.820	14691.762	14737.923	14751.634
3	14322.268	14364.035	14455.069	14554.565	14582.972
4	13902.962	13969.023	14119.317	14264.123	14307.027
5	13377.379	13462.969	13658.573	13842.083	13890.279
6	12756.041	12855.187	13072.571	13282.673	13332.749
7	12059.675	12161.971	12389.697	12596.190	12649.984
8	11297.269	11400.592	11617.079	11822.261	11864.356
9	10506.152	10607.201	10807.156	10998.932	11043.258
10	9726.821	9813.940	9999.944	10171.472	10219.492
11	8963.496	9034.828	9203.447	9356.847	9400.516
12	8235.664	8297.067	8448.105	8585.979	8617.883
13	7568.403	7617.583	7748.831	7874.677	7893.133
14	6949.557	7000.223	7110.194	7228.562	7226.091
15	6404.272	6436.089	6541.162	6627.888	6633.442
16	5888.858	5923.387	6026.054	6104.624	6122.096
17	5446.657	5481.032	5563.975	5626.953	5645.650
18	5066.514	5094.417	5168.744	5218.362	5238.939
19	4737.323	4763.236	4826.236	4866.625	4886.459
20	4458.886	4481.738	4531.945	4571.175	4576.467
21	4219.067	4236.714	4276.600	4314.037	4313.403
22	4014.410	4024.732	4055.674	4089.437	4097.156
23	3839.712	3841.549	3867.352	3890.094	3902.996
24	3678.681	3677.631	3699.651	3712.663	3728.560
25	3534.422	3531.054	3543.037	3549.532	3559.810
26	3395.804	3388.807	3390.600	3393.530	3396.329
27	3255.897	3242.164	3234.904	3231.668	3233.767
28	3101.688	3084.479	3064.339	3065.870	3063.923
29	2922.463	2907.266	2873.306	2861.410	2862.394
30	2732.283	2703.746	2662.548	2638.581	2647.132
31	2496.269	2470.443	2430.360	2407.268	2398.959
32	2232.833	2212.015	2176.283	2158.702	2149.824
33	1948.207	1933.643	1912.301	1905.325	1904.581
34	1657.633	1650.855	1647.399	1657.262	1668.173
35	1377.469	1379.196	1390.852	1418.711	1437.145
36	1124.988	1130.543	1158.095	1194.089	1213.114
37	903.778	915.171	949.568	990.526	1004.171
38	724.072	748.323	773.908	813.881	821.404
39	601.003	617.687	639.839	672.115	673.449
40	494.006	506.164	534.132	557.202	566.627
41	428.578	436.975	452.414	466.256	470.454
42	383.422	387.730	396.499	403.584	405.246
43	349.572	351.693	355.629	358.122	356.875
44	323.047	323.549	325.190	323.987	322.762
45	300.479	300.851	300.458	298.183	294.313
46	280.515	280.143	278.612	275.419	272.555
47	261.687	261.227	259.041	255.804	253.071
48	244.083	243.581	241.197	237.786	235.183
49	227.421	226.830	224.468	221.101	218.564
50	211.523	210.867	208.658	205.356	203.017
51	196.675	195.953	193.789	190.727	188.475
52	182.571	181.915	179.793	176.994	174.786
53	169.494	168.838	166.914	164.268	162.103

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CANDELA TABULATION - (Cont.)

54	157.336	156.658	154.799	152.284	150.207
55	145.724	145.046	143.297	140.870	139.098
56	134.331	133.697	132.079	129.914	128.274
57	123.551	123.004	121.451	119.505	118.062
58	113.710	113.185	111.830	109.971	108.768
59	104.526	104.023	102.864	101.158	100.065
60	96.129	95.692	94.576	93.133	92.105
61	88.453	88.016	87.032	85.676	84.670
62	81.456	80.975	80.100	78.963	77.979
63	74.961	74.611	73.780	72.796	71.856
64	69.013	68.664	67.964	67.045	66.236
65	63.656	63.240	62.672	61.819	61.032
66	58.539	58.211	57.664	56.943	56.221
67	53.859	53.553	53.094	52.460	51.826
68	49.617	49.289	48.895	48.305	47.736
69	45.506	45.309	44.894	44.413	43.844
70	41.767	41.526	41.198	40.761	40.258
71	38.224	37.984	37.721	37.328	36.890
72	34.922	34.660	34.441	34.069	33.719
73	31.708	31.489	31.292	30.986	30.680
74	28.646	28.471	28.274	28.034	27.750
75	25.694	25.563	25.410	25.235	24.994
76	22.808	22.720	22.611	22.458	22.283
77	20.009	19.965	19.899	19.834	19.681
78	17.253	17.210	17.231	17.188	17.122
79	14.520	14.520	14.586	14.651	14.564
80	11.808	11.830	11.896	12.071	11.983
81	8.922	9.009	9.053	9.206	9.119
82	5.161	5.292	5.467	5.489	5.554
83	2.537	2.558	2.777	2.908	3.127
84	2.318	2.296	2.296	2.318	2.296
85	2.121	2.143	2.121	2.121	2.099
86	1.902	1.902	1.902	1.902	1.881
87	1.618	1.618	1.618	1.618	1.596
88	1.268	1.268	1.246	1.246	1.246
89	0.831	0.831	0.831	0.831	0.831
90	0.437	0.481	0.503	0.525	0.547
91	0.437	0.437	0.437	0.437	0.415
92	0.437	0.459	0.459	0.437	0.437
93	0.459	0.459	0.459	0.459	0.437
94	0.459	0.459	0.459	0.459	0.459
95	0.481	0.481	0.481	0.459	0.459
96	0.503	0.503	0.503	0.481	0.481
97	0.503	0.525	0.525	0.503	0.503
98	0.547	0.547	0.547	0.525	0.525
99	0.590	0.569	0.569	0.569	0.569
100	0.590	0.569	0.569	0.569	0.590
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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Zone	Lumens	%Lamp	%Fixt
0-20	3019.95	N.A.	50.30
0-30	4644.3	N.A.	77.30
0-40	5540.59	N.A.	92.20
0-60	5914.32	N.A.	98.40
0-80	6004.9	N.A.	99.90
0-90	6008.54	N.A.	100.00
10-90	4827.57	N.A.	80.30
20-40	2520.64	N.A.	41.90
20-50	2764.89	N.A.	46.00
40-70	437.17	N.A.	7.30
60-80	90.58	N.A.	1.50
70-80	27.14	N.A.	0.50
80-90	3.64	N.A.	0.10
90-110	0.57	N.A.	0.00
90-120	0.57	N.A.	0.00
90-130	0.57	N.A.	0.00
90-150	0.57	N.A.	0.00
90-180	0.57	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	6009.11	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1180.97
10-20	1838.98
20-30	1624.35
30-40	896.29
40-50	244.26
50-60	129.48
60-70	63.44
70-80	27.14
80-90	3.64
90-100	0.54
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

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

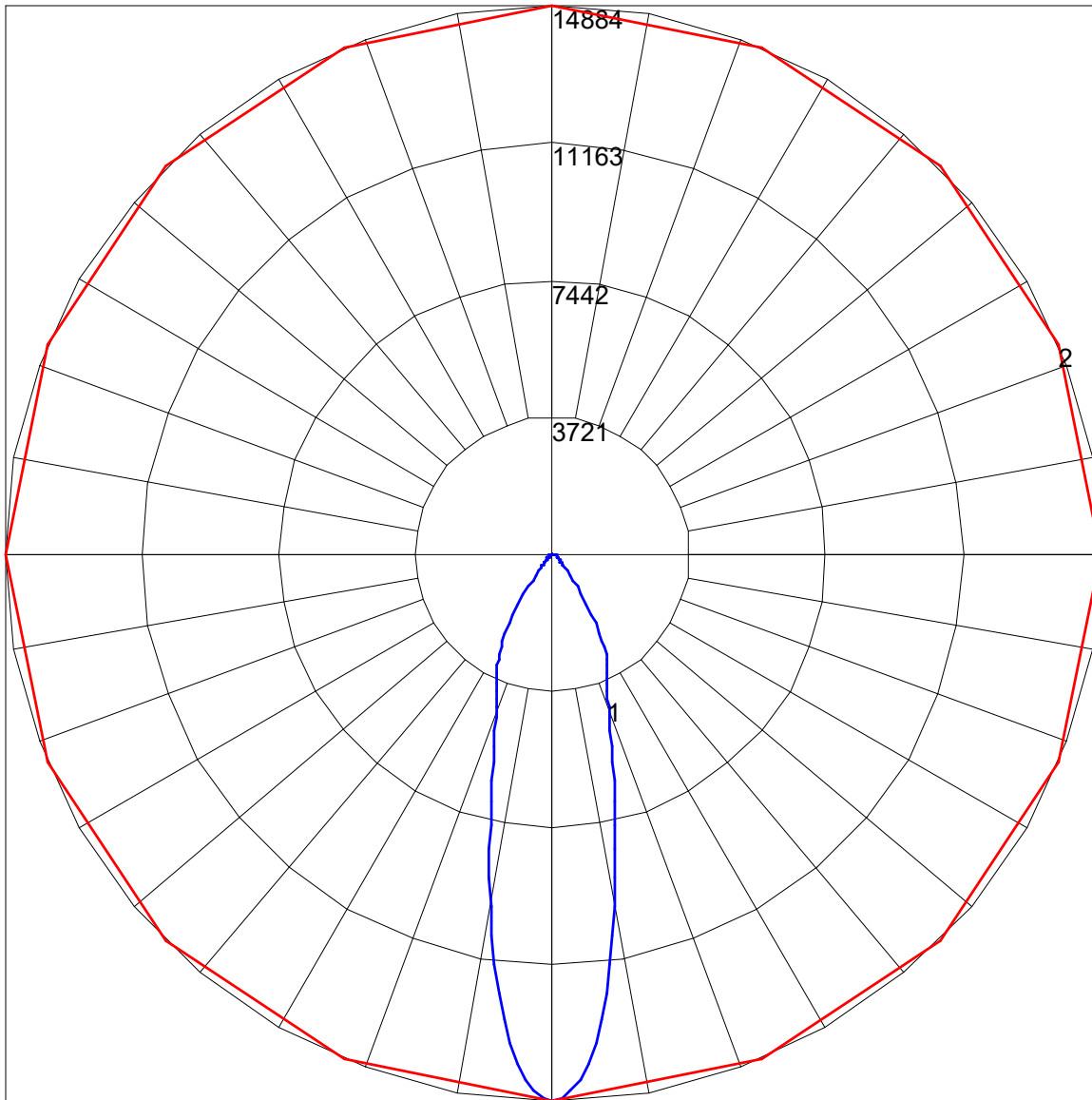
X=2H	Y=2H	13.4	14.4	13.7	14.7	15.0	13.2	14.1	13.5	14.5	14.8
	3H	14.1	15.0	14.5	15.3	15.7	13.9	14.8	14.3	15.1	15.5
	4H	14.4	15.2	14.8	15.5	15.9	14.1	14.9	14.5	15.3	15.7
	6H	14.5	15.2	14.9	15.6	16.0	14.3	15.0	14.7	15.4	15.7
	8H	14.4	15.1	14.8	15.5	15.9	14.2	14.9	14.6	15.3	15.7
	12H	14.4	15.0	14.8	15.4	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 = 14884.26 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.)