

IES INDOOR REPORT

PHOTOMETRIC FILENAME : W6CR-XX-L70-850-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-L70-850-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	6133
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
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	23891	23889	23401
55	14284	14046	13634
65	8468	8337	8119
75	5581	5520	5429
85	1368	1368	1354

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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	15191.148	15191.148	15191.148	15191.148	15191.148
1	15123.033	15128.769	15139.147	15152.159	15154.702
2	14930.784	14951.875	14994.681	15041.795	15055.788
3	14617.570	14660.198	14753.108	14854.656	14883.648
4	14189.618	14257.041	14410.434	14558.226	14602.015
5	13653.199	13740.553	13940.190	14127.484	14176.674
6	13019.049	13120.240	13342.106	13556.540	13607.648
7	12308.325	12412.730	12645.151	12855.903	12910.806
8	11530.200	11635.654	11856.604	12066.016	12108.979
9	10722.772	10825.904	11029.982	11225.712	11270.951
10	9927.372	10016.287	10206.126	10381.190	10430.201
11	9148.309	9221.111	9393.207	9549.770	9594.339
12	8405.469	8468.139	8622.291	8763.007	8795.570
13	7724.451	7774.645	7908.599	8037.040	8055.877
14	7092.845	7144.556	7256.795	7377.603	7375.081
15	6536.317	6568.791	6676.030	6764.544	6770.213
16	6010.277	6045.517	6150.301	6230.491	6248.323
17	5558.958	5594.042	5678.695	5742.971	5762.054
18	5170.977	5199.456	5275.315	5325.956	5346.957
19	4834.999	4861.446	4925.745	4966.967	4987.209
20	4550.821	4574.144	4625.386	4665.425	4670.826
21	4306.057	4324.068	4364.776	4402.985	4402.338
22	4097.181	4107.715	4139.295	4173.754	4181.633
23	3918.880	3920.755	3947.091	3970.301	3983.469
24	3754.529	3753.458	3775.932	3789.211	3805.437
25	3607.296	3603.858	3616.089	3622.717	3633.207
26	3465.820	3458.678	3460.509	3463.499	3466.356
27	3323.028	3309.012	3301.603	3298.300	3300.442
28	3165.640	3148.076	3127.520	3129.083	3127.096
29	2982.720	2967.209	2932.548	2920.407	2921.412
30	2788.618	2759.493	2717.445	2692.985	2701.711
31	2547.738	2521.380	2480.470	2456.902	2448.421
32	2278.870	2257.623	2221.155	2203.211	2194.150
33	1988.376	1973.512	1951.729	1944.610	1943.851
34	1691.811	1684.892	1681.366	1691.432	1702.568
35	1405.870	1407.633	1419.529	1447.962	1466.776
36	1148.184	1153.852	1181.973	1218.709	1238.126
37	922.412	934.040	969.147	1010.949	1024.875
38	739.001	763.752	789.864	830.662	838.340
39	613.394	630.423	653.031	685.973	687.335
40	504.191	516.600	545.145	568.691	578.310
41	437.415	445.985	461.742	475.869	480.154
42	391.328	395.725	404.674	411.905	413.601
43	356.779	358.944	362.961	365.506	364.234
44	329.707	330.221	331.894	330.667	329.417
45	306.675	307.054	306.652	304.331	300.381
46	286.298	285.919	284.357	281.098	278.174
47	267.082	266.614	264.382	261.079	258.289
48	249.116	248.603	246.170	242.688	240.033
49	232.110	231.507	229.097	225.660	223.071
50	215.884	215.215	212.961	209.591	207.202
51	200.730	199.994	197.784	194.660	192.361
52	186.335	185.665	183.500	180.644	178.390
53	172.989	172.319	170.355	167.655	165.445

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54	160.580	159.888	157.991	155.424	153.304
55	148.729	148.037	146.251	143.774	141.966
56	137.101	136.454	134.802	132.593	130.919
57	126.098	125.540	123.955	121.969	120.496
58	116.055	115.519	114.135	112.238	111.011
59	106.681	106.168	104.985	103.244	102.128
60	98.111	97.665	96.526	95.053	94.004
61	90.277	89.831	88.827	87.443	86.416
62	83.135	82.644	81.752	80.591	79.587
63	76.507	76.150	75.302	74.297	73.338
64	70.436	70.079	69.365	68.428	67.602
65	64.968	64.544	63.964	63.094	62.290
66	59.746	59.411	58.853	58.117	57.380
67	54.970	54.657	54.189	53.541	52.894
68	50.640	50.305	49.904	49.301	48.721
69	46.444	46.243	45.819	45.328	44.748
70	42.628	42.382	42.048	41.601	41.088
71	39.012	38.767	38.499	38.097	37.651
72	35.642	35.374	35.151	34.772	34.415
73	32.361	32.138	31.937	31.625	31.312
74	29.237	29.058	28.857	28.612	28.322
75	26.224	26.090	25.934	25.755	25.510
76	23.278	23.189	23.077	22.921	22.742
77	20.421	20.377	20.310	20.243	20.086
78	17.609	17.564	17.587	17.542	17.475
79	14.819	14.819	14.886	14.953	14.864
80	12.052	12.074	12.141	12.320	12.230
81	9.106	9.195	9.240	9.396	9.307
82	5.267	5.401	5.580	5.602	5.669
83	2.589	2.611	2.834	2.968	3.192
84	2.366	2.343	2.343	2.366	2.343
85	2.165	2.187	2.165	2.165	2.143
86	1.942	1.942	1.942	1.942	1.919
87	1.652	1.652	1.652	1.652	1.629
88	1.294	1.294	1.272	1.272	1.272
89	0.848	0.848	0.848	0.848	0.848
90	0.446	0.491	0.513	0.536	0.558
91	0.446	0.446	0.446	0.446	0.424
92	0.446	0.469	0.469	0.446	0.446
93	0.469	0.469	0.469	0.469	0.446
94	0.469	0.469	0.469	0.469	0.469
95	0.491	0.491	0.491	0.469	0.469
96	0.513	0.513	0.513	0.491	0.491
97	0.513	0.536	0.536	0.513	0.513
98	0.558	0.558	0.558	0.536	0.536
99	0.603	0.580	0.580	0.580	0.580
100	0.603	0.580	0.580	0.580	0.603
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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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	3082.21	N.A.	50.30
0-30	4740.05	N.A.	77.30
0-40	5654.82	N.A.	92.20
0-60	6036.26	N.A.	98.40
0-80	6128.71	N.A.	99.90
0-90	6132.42	N.A.	100.00
10-90	4927.1	N.A.	80.30
20-40	2572.61	N.A.	41.90
20-50	2821.9	N.A.	46.00
40-70	446.18	N.A.	7.30
60-80	92.45	N.A.	1.50
70-80	27.70	N.A.	0.50
80-90	3.71	N.A.	0.10
90-110	0.58	N.A.	0.00
90-120	0.58	N.A.	0.00
90-130	0.58	N.A.	0.00
90-150	0.58	N.A.	0.00
90-180	0.58	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	6133.00	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1205.32
10-20	1876.89
20-30	1657.84
30-40	914.77
40-50	249.29
50-60	132.15
60-70	64.75
70-80	27.70
80-90	3.71
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

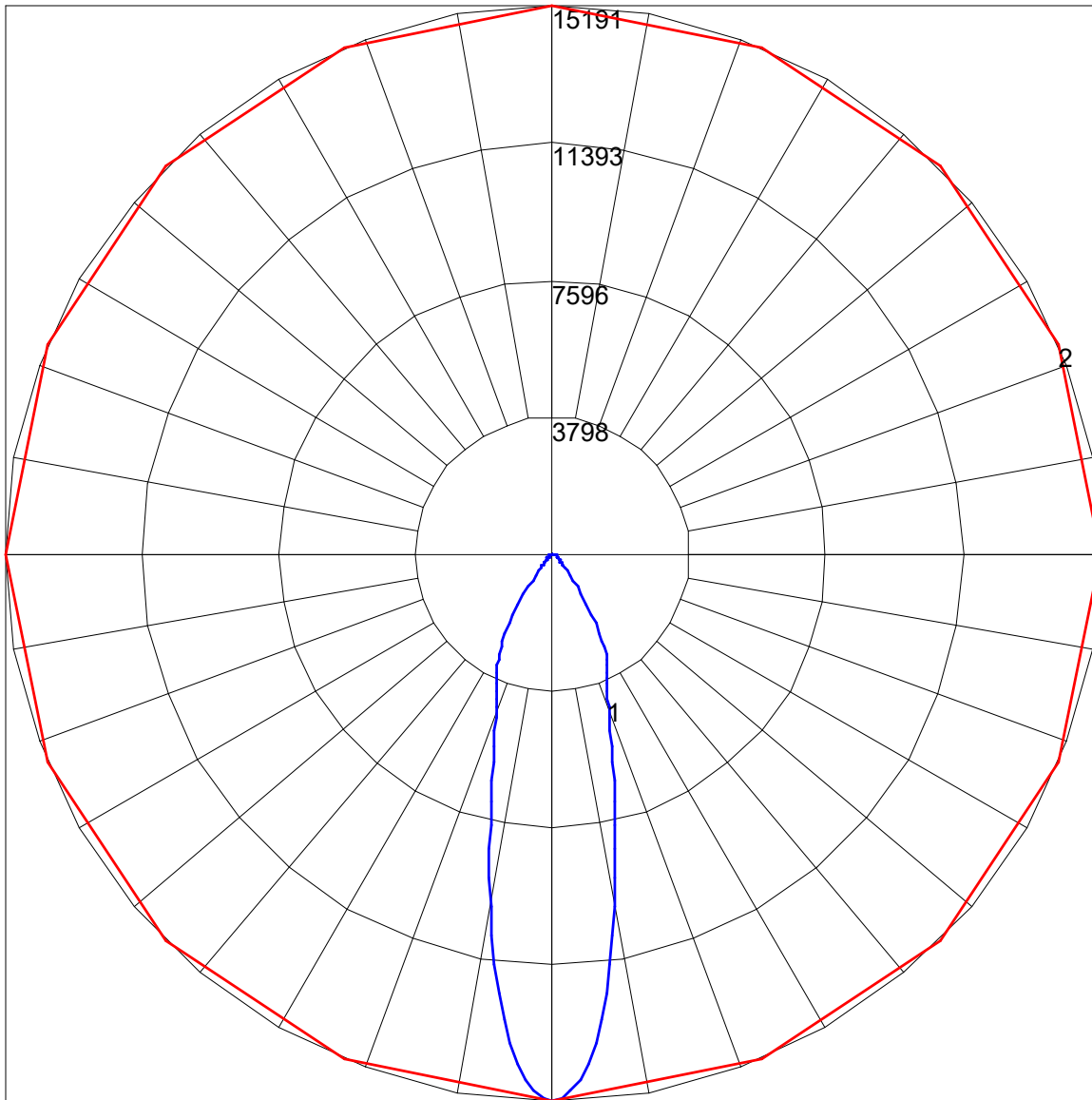
Reflectances

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					UGR Viewed Endwise				
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	16.1	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
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	15.4	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	15.5	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 = 15191.148 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.)