

IES INDOOR REPORT

PHOTOMETRIC FILENAME : W6CR-XX-L30-835-XXX-EM7W-DIM-UNV-W-XXX_EMER MODE ONLY.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM W6CR_Angela-XW_(V18)_measured
[TESTLAB] LEDIL Inc
[TESTDATE] 21 Aug 2024
[ISSUEDATE] 2026-03-25
[MANUFAC] H.E. WILLIAMS, INC.
[LUMCAT] W6CR-xx-L30-835-xxx-EM/7W-DIM-UNV-W-xxx
[LUMINAIRE] 6 INCH ROUND WET LOCATION LED
[MORE] CYLINDER WITH WIDE DIST
[LAMPCAT] BL VERO 18
[LAMP] LED
[OTHER] Absolute Photometry

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	798
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.96
Spacing Criterion (90-270)	0.96
Spacing Criterion (Diagonal)	0.94
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	9474	9483	9457
55	7718	7708	7672
65	5066	5052	5033
75	2428	2433	2435
85	715	715	710

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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	668.245	668.245	668.245	668.245	668.245
1	667.871	668.087	667.956	667.630	667.764
2	667.453	667.402	667.135	666.691	666.600
3	666.391	666.399	665.989	665.457	664.831
4	664.547	664.772	664.293	663.378	662.952
5	661.360	661.510	660.996	660.038	659.821
6	657.207	657.006	655.928	654.895	654.841
7	650.940	650.538	648.893	648.119	647.707
8	642.101	641.994	640.452	639.808	639.197
9	631.678	631.697	630.613	629.831	629.403
10	620.128	620.273	619.205	618.747	618.611
11	607.366	607.786	607.002	606.909	606.903
12	594.208	594.714	594.233	594.580	594.420
13	581.294	581.653	581.931	582.134	581.757
14	568.227	568.730	569.464	569.779	568.923
15	555.267	556.022	556.822	557.237	556.265
16	542.567	543.680	544.277	544.997	544.365
17	530.589	531.646	531.892	533.145	532.583
18	518.684	519.963	520.252	521.670	521.063
19	508.023	509.042	509.497	510.618	510.209
20	498.194	498.670	499.235	500.267	499.403
21	489.026	489.063	489.684	490.661	489.406
22	480.754	479.660	480.802	481.271	480.786
23	473.039	471.514	472.665	472.809	472.954
24	465.429	464.251	464.872	464.880	465.003
25	458.131	457.256	456.930	456.932	457.168
26	450.547	449.608	448.535	448.629	448.396
27	441.666	440.159	438.800	438.468	438.864
28	429.709	427.935	426.054	425.821	426.485
29	413.996	412.420	409.391	409.428	410.196
30	393.008	391.590	388.025	388.462	389.053
31	366.738	365.421	362.052	362.708	363.184
32	336.047	335.273	332.316	333.609	334.064
33	302.391	302.161	300.215	301.861	302.428
34	268.084	268.504	267.541	269.562	269.682
35	236.184	236.269	236.328	238.694	238.498
36	207.762	207.730	208.918	211.286	211.372
37	184.210	184.318	185.969	188.326	188.037
38	165.682	166.332	168.133	169.931	169.779
39	152.644	153.506	154.895	156.345	156.297
40	143.739	144.440	145.411	146.292	146.388
41	137.637	137.945	138.630	139.144	139.149
42	132.973	133.083	133.540	133.827	133.605
43	129.050	129.047	129.350	129.449	129.130
44	125.341	125.341	125.483	125.480	125.170
45	121.613	121.638	121.731	121.707	121.389
46	117.808	117.859	117.889	117.870	117.613
47	113.808	113.883	113.923	113.915	113.679
48	109.767	109.826	109.855	109.847	109.652
49	105.635	105.699	105.737	105.691	105.469
50	101.453	101.453	101.485	101.469	101.254
51	97.219	97.219	97.235	97.216	97.034
52	92.940	92.983	92.980	92.959	92.761
53	88.750	88.771	88.750	88.733	88.482

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54	84.578	84.551	84.529	84.460	84.198
55	80.360	80.283	80.259	80.135	79.881
56	75.883	75.822	75.795	75.651	75.412
57	71.361	71.297	71.273	71.093	70.847
58	66.937	66.849	66.788	66.614	66.381
59	62.546	62.477	62.378	62.230	62.016
60	58.273	58.190	58.125	57.954	57.775
61	54.090	54.026	53.967	53.830	53.659
62	50.081	50.014	49.940	49.830	49.667
63	46.180	46.134	46.054	45.960	45.805
64	42.404	42.364	42.310	42.209	42.104
65	38.869	38.791	38.762	38.684	38.612
66	35.361	35.374	35.283	35.267	35.171
67	32.026	32.058	32.008	31.976	31.895
68	28.898	28.898	28.879	28.850	28.812
69	25.890	25.901	25.872	25.864	25.847
70	23.051	23.078	23.051	23.051	23.048
71	20.391	20.410	20.383	20.396	20.399
72	17.892	17.921	17.894	17.910	17.932
73	15.558	15.577	15.566	15.588	15.596
74	13.404	13.415	13.417	13.447	13.436
75	11.408	11.424	11.432	11.456	11.440
76	9.564	9.569	9.588	9.615	9.604
77	7.886	7.894	7.924	7.942	7.934
78	6.372	6.366	6.412	6.417	6.414
79	5.012	5.017	5.060	5.079	5.066
80	3.840	3.837	3.880	3.904	3.894
81	2.815	2.829	2.866	2.890	2.877
82	1.905	1.924	1.951	1.953	1.967
83	1.317	1.322	1.373	1.402	1.437
84	1.220	1.223	1.220	1.220	1.215
85	1.132	1.135	1.132	1.129	1.124
86	1.014	1.014	1.012	1.012	1.003
87	0.854	0.856	0.851	0.851	0.846
88	0.653	0.648	0.648	0.648	0.642
89	0.399	0.399	0.399	0.396	0.391
90	0.174	0.174	0.195	0.214	0.222
91	0.153	0.153	0.153	0.153	0.150
92	0.155	0.158	0.158	0.158	0.158
93	0.166	0.169	0.169	0.169	0.169
94	0.174	0.177	0.179	0.179	0.177
95	0.187	0.187	0.190	0.187	0.187
96	0.198	0.201	0.201	0.201	0.198
97	0.211	0.214	0.214	0.211	0.211
98	0.225	0.225	0.225	0.225	0.222
99	0.238	0.238	0.238	0.241	0.238
100	0.249	0.252	0.249	0.254	0.249
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	217.92	N.A.	27.30
0-30	426.47	N.A.	53.40
0-40	579.55	N.A.	72.60
0-60	744.80	N.A.	93.30
0-80	796.36	N.A.	99.80
0-90	797.83	N.A.	100.00
10-90	736.06	N.A.	92.20
20-40	361.63	N.A.	45.30
20-50	455.56	N.A.	57.10
40-70	204.07	N.A.	25.60
60-80	51.56	N.A.	6.50
70-80	12.74	N.A.	1.60
80-90	1.46	N.A.	0.20
90-110	0.23	N.A.	0.00
90-120	0.23	N.A.	0.00
90-130	0.23	N.A.	0.00
90-150	0.23	N.A.	0.00
90-180	0.23	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	798.05	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	61.76
10-20	156.16
20-30	208.54
30-40	153.09
40-50	93.93
50-60	71.31
60-70	38.83
70-80	12.74
80-90	1.46
90-100	0.21
100-110	0.01
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	112	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90
2	105	99	94	89	102	97	92	88	94	90	86	90	87	84	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66
5	86	76	69	63	84	75	68	63	73	67	63	71	66	62	69	65	61	60
6	81	70	63	58	79	69	62	58	68	62	57	66	61	57	65	60	56	55
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46
9	68	57	50	45	67	56	49	45	55	49	45	54	49	45	53	48	44	43
10	64	53	46	42	63	53	46	42	52	46	42	51	45	42	50	45	41	40

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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	16.2	17.5	16.6	17.8	18.2	16.2	17.4	16.6	17.8	18.1
	3H	17.0	18.1	17.4	18.5	18.8	17.0	18.1	17.4	18.4	18.8
	4H	17.1	18.1	17.5	18.5	18.9	17.1	18.1	17.5	18.5	18.9
	6H	17.1	18.1	17.5	18.4	18.9	17.1	18.0	17.5	18.4	18.8
	8H	17.1	18.0	17.5	18.4	18.8	17.1	18.0	17.5	18.4	18.8
	12H	17.0	17.9	17.5	18.3	18.7	17.0	17.9	17.5	18.3	18.7

UGR Viewed Endwise

4H	2H	16.5	17.5	16.9	17.9	18.3	16.5	17.5	16.9	17.9	18.3
	3H	17.4	18.2	17.8	18.7	19.1	17.4	18.2	17.8	18.6	19.1
	4H	17.6	18.3	18.0	18.7	19.2	17.6	18.3	18.0	18.7	19.2
	6H	17.6	18.2	18.1	18.7	19.2	17.6	18.2	18.0	18.7	19.2
	8H	17.5	18.1	18.0	18.6	19.1	17.5	18.1	18.0	18.6	19.1
	12H	17.5	18.0	18.0	18.5	19.0	17.5	18.0	18.0	18.5	19.0

8H	4H	17.6	18.1	18.0	18.6	19.1	17.5	18.1	18.0	18.6	19.1
	6H	17.6	18.1	18.1	18.6	19.1	17.6	18.0	18.1	18.6	19.1
	8H	17.5	18.0	18.1	18.5	19.0	17.5	17.9	18.1	18.5	19.0
	12H	17.5	17.9	18.0	18.4	19.0	17.5	17.9	18.0	18.4	19.0

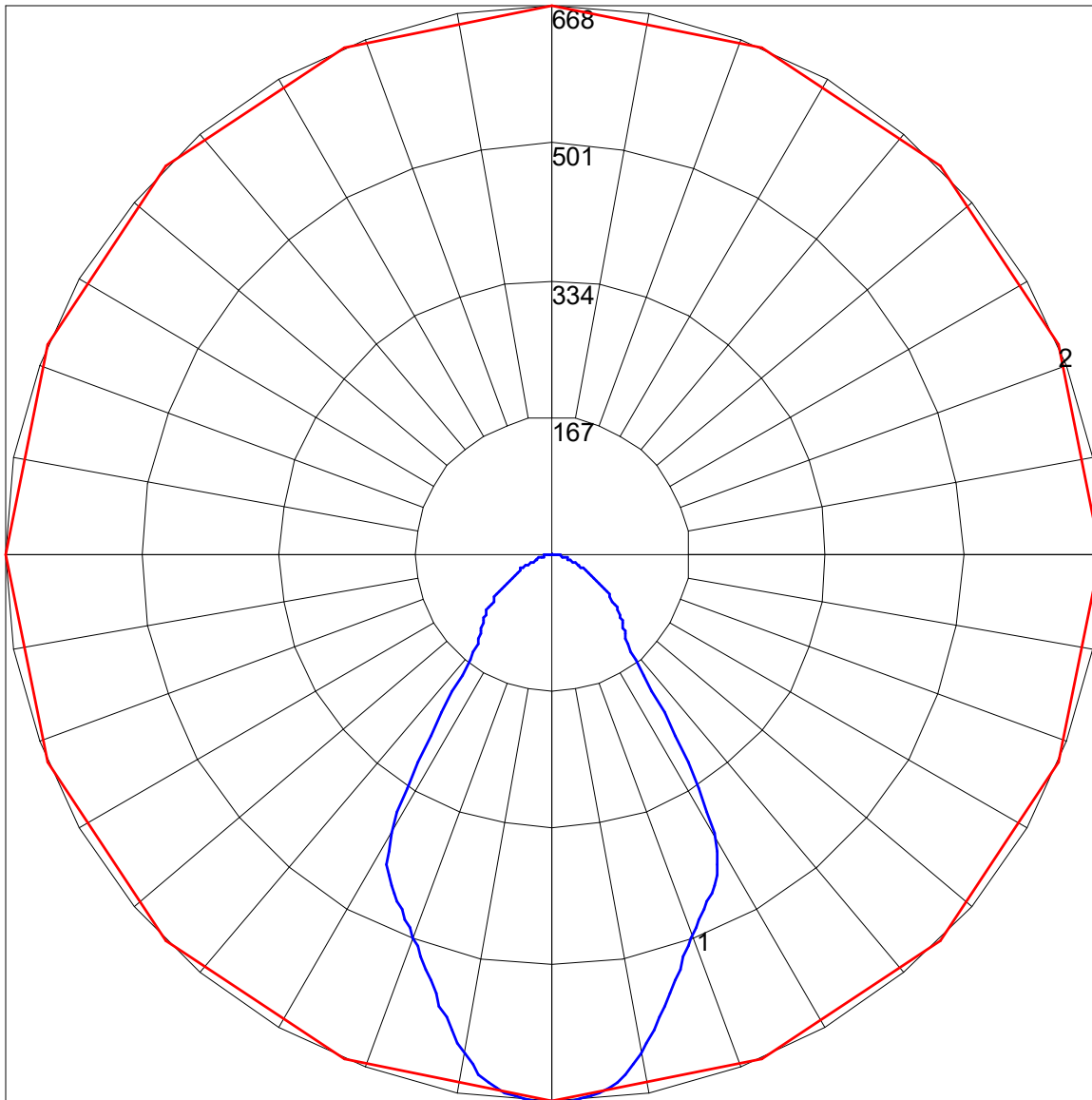
12H	4H	17.5	18.0	18.0	18.5	19.0	17.5	18.0	18.0	18.5	19.0
	6H	17.5	18.0	18.1	18.4	19.0	17.5	17.9	18.1	18.4	19.0
	8H	17.5	17.9	18.0	18.4	19.0	17.5	17.9	18.0	18.4	19.0

Maximum UGR = 19.2

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POLAR GRAPH



Maximum Candela = 668.245 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.)