

IES INDOOR REPORT

PHOTOMETRIC FILENAME : W6CR-XX-L60-950-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-L60-950-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	5259
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	53.6
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	20487	20485	20066
55	12249	12045	11692
65	7262	7149	6962
75	4786	4733	4656
85	1173	1173	1161

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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	13026.681	13026.681	13026.681	13026.681	13026.681
1	12968.271	12973.190	12982.089	12993.247	12995.428
2	12803.414	12821.499	12858.207	12898.607	12910.607
3	12534.827	12571.381	12651.054	12738.133	12762.994
4	12167.850	12225.667	12357.204	12483.938	12521.488
5	11707.862	11782.769	11953.961	12114.570	12156.750
6	11164.067	11250.840	11441.094	11624.975	11668.801
7	10554.608	10644.138	10843.443	11024.166	11071.246
8	9887.352	9977.781	10167.250	10346.824	10383.665
9	9194.968	9283.406	9458.406	9626.248	9665.042
10	8512.899	8589.145	8751.936	8902.056	8944.084
11	7844.838	7907.267	8054.842	8189.098	8227.317
12	7207.840	7261.580	7393.768	7514.435	7542.358
13	6623.855	6666.897	6781.765	6891.905	6908.058
14	6082.241	6126.584	6222.831	6326.426	6324.264
15	5605.009	5632.855	5724.815	5800.717	5805.578
16	5153.920	5184.139	5273.993	5342.757	5358.048
17	4766.905	4796.991	4869.582	4924.700	4941.064
18	4434.205	4458.626	4523.677	4567.102	4585.111
19	4146.098	4168.777	4223.914	4259.263	4276.621
20	3902.410	3922.410	3966.351	4000.685	4005.317
21	3692.521	3707.965	3742.873	3775.638	3775.083
22	3513.406	3522.439	3549.519	3579.069	3585.825
23	3360.510	3362.117	3384.701	3404.604	3415.896
24	3219.575	3218.657	3237.929	3249.316	3263.230
25	3093.320	3090.373	3100.861	3106.545	3115.540
26	2972.003	2965.878	2967.448	2970.012	2972.462
27	2849.556	2837.537	2831.183	2828.351	2830.188
28	2714.593	2699.531	2681.905	2683.244	2681.541
29	2557.735	2544.434	2514.713	2504.301	2505.163
30	2391.290	2366.314	2330.258	2309.282	2316.765
31	2184.730	2162.128	2127.048	2106.838	2099.565
32	1954.172	1935.952	1904.680	1889.293	1881.523
33	1705.068	1692.322	1673.643	1667.537	1666.887
34	1450.758	1444.825	1441.801	1450.433	1459.983
35	1205.559	1207.071	1217.271	1241.653	1257.787
36	984.588	989.449	1013.563	1045.065	1061.715
37	790.985	800.956	831.061	866.907	878.849
38	633.707	654.931	677.323	712.308	718.891
39	525.996	540.599	559.986	588.234	589.402
40	432.353	442.994	467.472	487.663	495.911
41	375.091	382.440	395.952	408.066	411.741
42	335.571	339.341	347.015	353.216	354.671
43	305.945	307.801	311.246	313.428	312.337
44	282.730	283.170	284.605	283.553	282.481
45	262.979	263.304	262.960	260.970	257.582
46	245.506	245.181	243.841	241.047	238.540
47	229.028	228.626	226.712	223.880	221.487
48	213.621	213.181	211.095	208.110	205.832
49	199.038	198.521	196.454	193.507	191.287
50	185.125	184.550	182.617	179.728	177.680
51	172.130	171.498	169.603	166.924	164.953
52	159.785	159.211	157.355	154.905	152.972
53	148.341	147.767	146.082	143.767	141.872

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CANDELA TABULATION - (Cont.)

54	137.700	137.107	135.480	133.279	131.461
55	127.537	126.944	125.413	123.289	121.739
56	117.566	117.011	115.595	113.701	112.265
57	108.131	107.653	106.294	104.591	103.328
58	99.519	99.060	97.873	96.246	95.194
59	91.481	91.041	90.026	88.534	87.577
60	84.132	83.749	82.773	81.510	80.610
61	77.414	77.032	76.170	74.984	74.103
62	71.290	70.869	70.104	69.108	68.247
63	65.606	65.300	64.573	63.711	62.888
64	60.400	60.094	59.482	58.678	57.970
65	55.712	55.348	54.850	54.104	53.415
66	51.233	50.946	50.468	49.836	49.205
67	47.138	46.870	46.468	45.913	45.358
68	43.425	43.138	42.793	42.276	41.779
69	39.827	39.655	39.291	38.870	38.372
70	36.554	36.344	36.057	35.674	35.234
71	33.454	33.243	33.014	32.669	32.286
72	30.564	30.334	30.143	29.817	29.511
73	27.751	27.559	27.387	27.119	26.851
74	25.071	24.918	24.746	24.535	24.286
75	22.487	22.373	22.239	22.086	21.875
76	19.961	19.885	19.789	19.655	19.502
77	17.512	17.473	17.416	17.358	17.224
78	15.100	15.062	15.081	15.043	14.985
79	12.708	12.708	12.765	12.823	12.746
80	10.335	10.354	10.411	10.564	10.488
81	7.808	7.885	7.923	8.057	7.981
82	4.517	4.631	4.785	4.804	4.861
83	2.220	2.239	2.431	2.545	2.737
84	2.029	2.010	2.010	2.029	2.010
85	1.856	1.876	1.856	1.856	1.837
86	1.665	1.665	1.665	1.665	1.646
87	1.416	1.416	1.416	1.416	1.397
88	1.110	1.110	1.091	1.091	1.091
89	0.727	0.727	0.727	0.727	0.727
90	0.383	0.421	0.440	0.459	0.478
91	0.383	0.383	0.383	0.383	0.364
92	0.383	0.402	0.402	0.383	0.383
93	0.402	0.402	0.402	0.402	0.383
94	0.402	0.402	0.402	0.402	0.402
95	0.421	0.421	0.421	0.402	0.402
96	0.440	0.440	0.440	0.421	0.421
97	0.440	0.459	0.459	0.440	0.440
98	0.478	0.478	0.478	0.459	0.459
99	0.517	0.498	0.498	0.498	0.498
100	0.517	0.498	0.498	0.498	0.517
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	2643.05	N.A.	50.30
0-30	4064.68	N.A.	77.30
0-40	4849.11	N.A.	92.20
0-60	5176.2	N.A.	98.40
0-80	5255.48	N.A.	99.90
0-90	5258.66	N.A.	100.00
10-90	4225.08	N.A.	80.30
20-40	2206.06	N.A.	41.90
20-50	2419.83	N.A.	46.00
40-70	382.61	N.A.	7.30
60-80	79.28	N.A.	1.50
70-80	23.75	N.A.	0.50
80-90	3.19	N.A.	0.10
90-110	0.50	N.A.	0.00
90-120	0.50	N.A.	0.00
90-130	0.50	N.A.	0.00
90-150	0.50	N.A.	0.00
90-180	0.50	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	5259.16	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1033.58
10-20	1609.47
20-30	1421.63
30-40	784.43
40-50	213.77
50-60	113.32
60-70	55.52
70-80	23.75
80-90	3.19
90-100	0.47
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

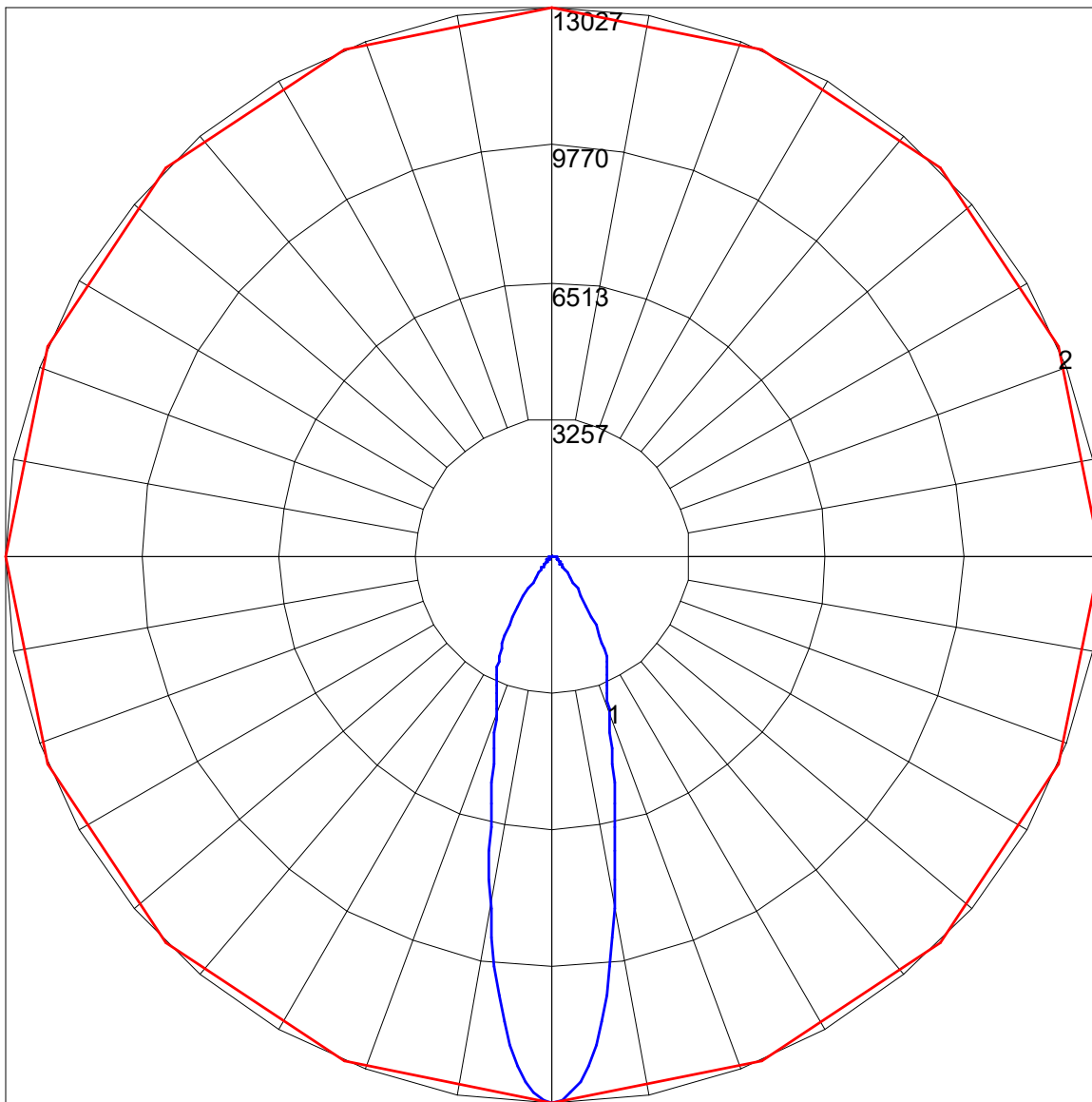
Reflectances

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	12.9	13.9	13.2	14.2	14.5	12.7	13.6	13.0	14.0	14.3
	3H	13.6	14.5	14.0	14.8	15.2	13.4	14.3	13.8	14.6	15.0
	4H	13.9	14.7	14.3	15.0	15.4	13.6	14.4	14.0	14.8	15.2
	6H	14.0	14.7	14.4	15.1	15.4	13.8	14.5	14.2	14.9	15.2
	8H	13.9	14.6	14.3	15.0	15.4	13.7	14.4	14.1	14.8	15.2
	12H	13.9	14.5	14.3	14.9	15.3	13.7	14.3	14.1	14.7	15.1
4H	2H	13.0	13.8	13.4	14.2	14.6	12.8	13.6	13.2	14.0	14.4
	3H	14.0	14.6	14.4	15.0	15.4	13.8	14.4	14.2	14.8	15.2
	4H	14.3	14.8	14.7	15.3	15.7	14.1	14.7	14.5	15.1	15.5
	6H	14.4	14.9	14.9	15.4	15.8	14.3	14.7	14.7	15.2	15.7
	8H	14.4	14.8	14.9	15.3	15.8	14.2	14.7	14.7	15.1	15.6
	12H	14.3	14.7	14.8	15.2	15.7	14.2	14.6	14.7	15.1	15.5
8H	4H	14.3	14.7	14.8	15.2	15.7	14.1	14.6	14.6	15.0	15.5
	6H	14.5	14.8	15.0	15.4	15.8	14.3	14.7	14.8	15.2	15.7
	8H	14.5	14.8	15.0	15.3	15.8	14.3	14.6	14.9	15.2	15.7
	12H	14.4	14.7	14.9	15.2	15.8	14.3	14.5	14.8	15.0	15.6
12H	4H	14.2	14.6	14.7	15.1	15.6	14.1	14.5	14.6	15.0	15.4
	6H	14.4	14.8	15.0	15.2	15.8	14.3	14.6	14.8	15.1	15.6
	8H	14.4	14.7	15.0	15.2	15.8	14.3	14.6	14.8	15.1	15.6

Maximum UGR = 15.8

POLAR GRAPH



Maximum Candela = 13026.681 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.)