

IES INDOOR REPORT

PHOTOMETRIC FILENAME : W6CR-XX-L60-940-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
[ISSUEDATE] 2025-07-15
[MANUFAC] H.E. WILLIAMS, INC.
[LUMCAT] W6CR-xx-L60-940-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	5370
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
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	20918	20917	20489
55	12506	12298	11938
65	7414	7300	7109
75	4887	4833	4754
85	1198	1198	1186

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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	13300.925	13300.925	13300.925	13300.925	13300.925
1	13241.286	13246.308	13255.395	13266.788	13269.015
2	13072.959	13091.424	13128.905	13170.156	13182.408
3	12798.717	12836.041	12917.390	13006.303	13031.687
4	12424.015	12483.048	12617.355	12746.757	12785.097
5	11954.342	12030.826	12205.623	12369.612	12412.681
6	11399.099	11487.699	11681.958	11869.710	11914.459
7	10776.810	10868.224	11071.725	11256.253	11304.324
8	10095.506	10187.838	10381.296	10564.651	10602.268
9	9388.545	9478.845	9657.530	9828.905	9868.515
10	8692.117	8769.969	8936.186	9089.467	9132.379
11	8009.992	8073.735	8224.417	8361.499	8400.523
12	7359.583	7414.455	7549.426	7672.633	7701.144
13	6763.304	6807.252	6924.538	7036.998	7053.490
14	6210.288	6255.565	6353.837	6459.614	6457.406
15	5723.009	5751.441	5845.337	5922.837	5927.800
16	5262.423	5293.278	5385.024	5455.236	5470.849
17	4867.261	4897.980	4972.099	5028.378	5045.086
18	4527.557	4552.491	4618.912	4663.251	4681.639
19	4233.384	4256.540	4312.838	4348.931	4366.655
20	3984.566	4004.986	4049.853	4084.910	4089.639
21	3770.258	3786.027	3821.670	3855.125	3854.558
22	3587.372	3596.595	3624.246	3654.417	3661.315
23	3431.257	3432.898	3455.957	3476.280	3487.809
24	3287.356	3286.418	3306.096	3317.723	3331.929
25	3158.443	3155.433	3166.142	3171.945	3181.130
26	3034.571	3028.318	3029.920	3032.539	3035.040
27	2909.546	2897.275	2890.787	2887.895	2889.771
28	2771.742	2756.363	2738.365	2739.733	2737.994
29	2611.582	2598.001	2567.654	2557.023	2557.903
30	2441.633	2416.131	2379.316	2357.899	2365.539
31	2230.725	2207.646	2171.827	2151.192	2143.766
32	1995.312	1976.709	1944.778	1929.067	1921.133
33	1740.964	1727.949	1708.877	1702.643	1701.979
34	1481.300	1475.243	1472.155	1480.968	1490.719
35	1230.939	1232.482	1242.898	1267.793	1284.267
36	1005.316	1010.280	1034.901	1067.066	1084.067
37	807.637	817.818	848.557	885.157	897.351
38	647.048	668.719	691.582	727.304	734.026
39	537.070	551.980	571.775	600.618	601.810
40	441.455	452.320	477.313	497.929	506.351
41	382.988	390.492	404.288	416.657	420.409
42	342.635	346.485	354.321	360.652	362.137
43	312.385	314.281	317.798	320.026	318.912
44	288.682	289.131	290.597	289.522	288.428
45	268.515	268.848	268.496	266.464	263.005
46	250.674	250.342	248.974	246.121	243.561
47	233.849	233.439	231.485	228.593	226.150
48	218.119	217.669	215.539	212.491	210.166
49	203.228	202.701	200.590	197.581	195.314
50	189.022	188.436	186.462	183.511	181.420
51	175.753	175.109	173.174	170.438	168.426
52	163.149	162.563	160.668	158.166	156.193
53	151.464	150.878	149.158	146.793	144.859

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CANDELA TABULATION - (Cont.)

54	140.599	139.993	138.332	136.085	134.228
55	130.222	129.617	128.053	125.884	124.302
56	120.042	119.475	118.029	116.094	114.629
57	110.408	109.919	108.532	106.793	105.503
58	101.614	101.145	99.934	98.273	97.198
59	93.407	92.957	91.922	90.398	89.420
60	85.903	85.512	84.516	83.226	82.307
61	79.044	78.653	77.774	76.562	75.663
62	72.791	72.361	71.579	70.563	69.684
63	66.987	66.675	65.932	65.053	64.212
64	61.672	61.359	60.734	59.913	59.190
65	56.884	56.513	56.005	55.243	54.539
66	52.312	52.019	51.530	50.885	50.240
67	48.130	47.856	47.446	46.879	46.313
68	44.339	44.046	43.694	43.166	42.658
69	40.665	40.489	40.118	39.688	39.180
70	37.324	37.109	36.816	36.425	35.975
71	34.158	33.943	33.709	33.357	32.966
72	31.207	30.973	30.777	30.445	30.133
73	28.335	28.139	27.963	27.690	27.416
74	25.599	25.443	25.267	25.052	24.798
75	22.961	22.844	22.707	22.551	22.336
76	20.381	20.303	20.206	20.069	19.912
77	17.880	17.841	17.782	17.724	17.587
78	15.418	15.379	15.398	15.359	15.301
79	12.975	12.975	13.034	13.093	13.014
80	10.552	10.572	10.630	10.787	10.709
81	7.973	8.051	8.090	8.227	8.149
82	4.612	4.729	4.885	4.905	4.963
83	2.267	2.286	2.482	2.599	2.794
84	2.071	2.052	2.052	2.071	2.052
85	1.895	1.915	1.895	1.895	1.876
86	1.700	1.700	1.700	1.700	1.681
87	1.446	1.446	1.446	1.446	1.427
88	1.133	1.133	1.114	1.114	1.114
89	0.743	0.743	0.743	0.743	0.743
90	0.391	0.430	0.449	0.469	0.489
91	0.391	0.391	0.391	0.391	0.371
92	0.391	0.410	0.410	0.391	0.391
93	0.410	0.410	0.410	0.410	0.391
94	0.410	0.410	0.410	0.410	0.410
95	0.430	0.430	0.430	0.410	0.410
96	0.449	0.449	0.449	0.430	0.430
97	0.449	0.469	0.469	0.449	0.449
98	0.489	0.489	0.489	0.469	0.469
99	0.528	0.508	0.508	0.508	0.508
100	0.528	0.508	0.508	0.508	0.528
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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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2698.7	N.A.	50.30
0-30	4150.25	N.A.	77.30
0-40	4951.2	N.A.	92.20
0-60	5285.17	N.A.	98.40
0-80	5366.12	N.A.	99.90
0-90	5369.37	N.A.	100.00
10-90	4314.03	N.A.	80.30
20-40	2252.5	N.A.	41.90
20-50	2470.77	N.A.	46.00
40-70	390.67	N.A.	7.30
60-80	80.94	N.A.	1.50
70-80	24.25	N.A.	0.50
80-90	3.25	N.A.	0.10
90-110	0.51	N.A.	0.00
90-120	0.51	N.A.	0.00
90-130	0.51	N.A.	0.00
90-150	0.51	N.A.	0.00
90-180	0.51	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	5369.88	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1055.34
10-20	1643.35
20-30	1451.56
30-40	800.94
40-50	218.27
50-60	115.70
60-70	56.69
70-80	24.25
80-90	3.25
90-100	0.48
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

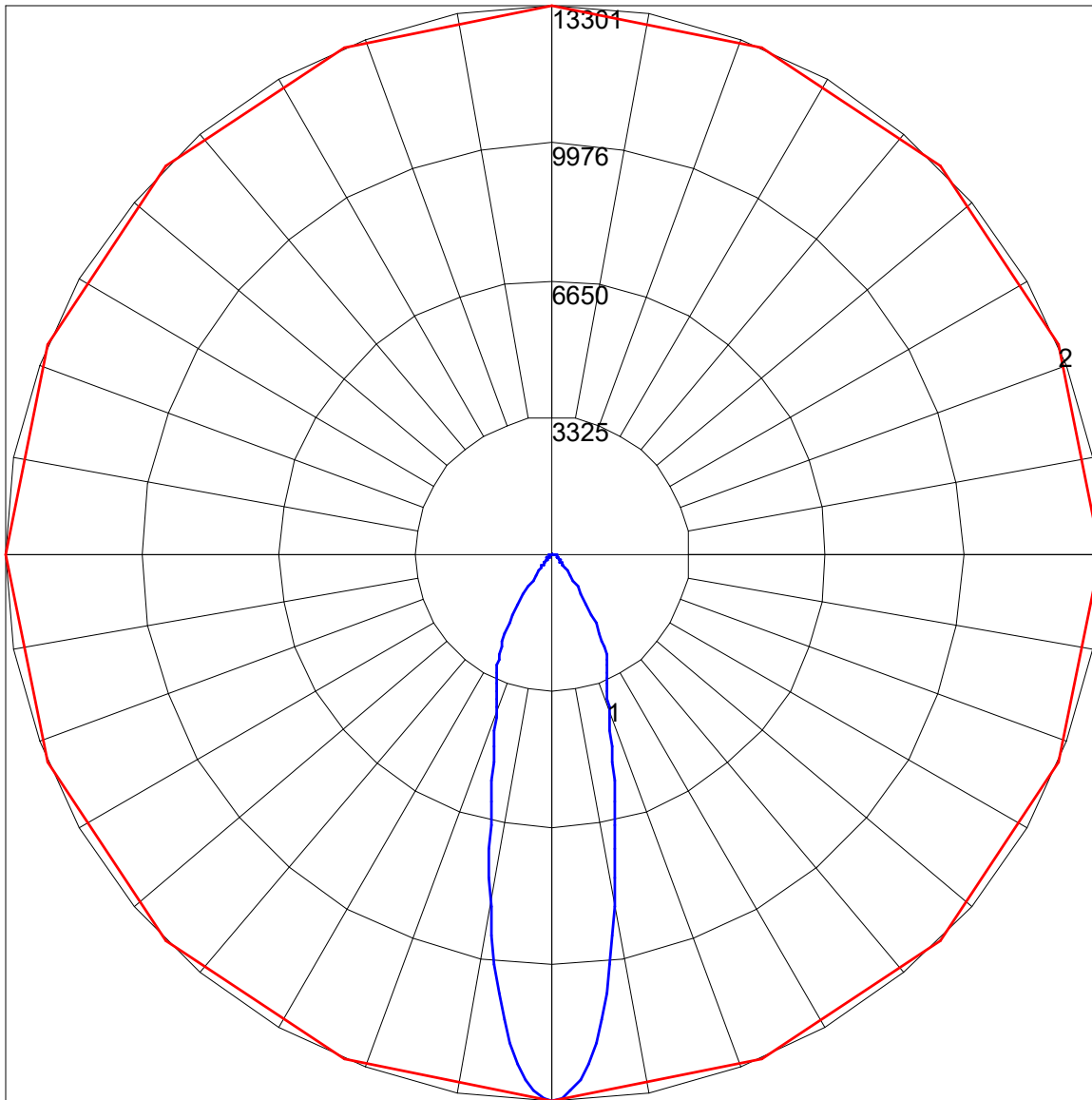
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	13.0	14.0	13.3	14.3	14.6	12.8	13.7	13.1	14.1	14.4
	3H	13.7	14.6	14.1	14.9	15.3	13.5	14.4	13.9	14.7	15.1
	4H	14.0	14.8	14.4	15.1	15.5	13.7	14.5	14.1	14.9	15.3
	6H	14.1	14.8	14.5	15.2	15.5	13.9	14.6	14.3	15.0	15.3
	8H	14.0	14.7	14.4	15.1	15.5	13.8	14.5	14.2	14.9	15.3
	12H	14.0	14.6	14.4	15.0	15.4	13.8	14.4	14.2	14.8	15.2
4H	2H	13.1	13.9	13.5	14.3	14.7	12.9	13.7	13.3	14.1	14.5
	3H	14.1	14.7	14.5	15.1	15.5	13.9	14.5	14.3	14.9	15.3
	4H	14.4	14.9	14.8	15.4	15.8	14.2	14.8	14.6	15.2	15.6
	6H	14.5	15.0	15.0	15.5	15.9	14.4	14.8	14.8	15.3	15.8
	8H	14.5	14.9	15.0	15.4	15.9	14.3	14.8	14.8	15.2	15.7
	12H	14.4	14.8	14.9	15.3	15.8	14.3	14.7	14.8	15.2	15.6
8H	4H	14.4	14.8	14.9	15.3	15.8	14.2	14.7	14.7	15.1	15.6
	6H	14.6	14.9	15.1	15.5	15.9	14.4	14.8	14.9	15.3	15.8
	8H	14.6	14.9	15.1	15.4	15.9	14.4	14.7	14.9	15.3	15.8
	12H	14.5	14.8	15.0	15.3	15.9	14.4	14.6	14.9	15.1	15.7
12H	4H	14.3	14.7	14.8	15.2	15.7	14.2	14.6	14.7	15.1	15.5
	6H	14.5	14.9	15.1	15.3	15.9	14.4	14.7	14.9	15.2	15.7
	8H	14.5	14.8	15.1	15.3	15.9	14.4	14.7	14.9	15.2	15.7

Maximum UGR = 15.9

POLAR GRAPH



Maximum Candela = 13300.925 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.)