

IES INDOOR REPORT

PHOTOMETRIC FILENAME : W6CR-XX-L60-827-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-L60-827-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	5425
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
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	21134	21132	20700
55	12635	12425	12061
65	7491	7375	7182
75	4937	4883	4803
85	1210	1210	1198

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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	13438.051	13438.051	13438.051	13438.051	13438.051
1	13377.797	13382.871	13392.051	13403.562	13405.812
2	13207.734	13226.391	13264.257	13305.934	13318.313
3	12930.665	12968.374	13050.562	13140.392	13166.038
4	12552.100	12611.743	12747.434	12878.170	12916.905
5	12077.585	12154.858	12331.457	12497.137	12540.650
6	11516.618	11606.131	11802.393	11992.081	12037.291
7	10887.913	10980.270	11185.869	11372.299	11420.866
8	10199.586	10292.870	10488.322	10673.568	10711.572
9	9485.337	9576.568	9757.094	9930.237	9970.255
10	8781.728	8860.383	9028.314	9183.175	9226.530
11	8092.571	8156.972	8309.207	8447.702	8487.128
12	7435.457	7490.894	7627.257	7751.734	7780.539
13	6833.030	6877.431	6995.927	7109.546	7126.208
14	6274.313	6320.056	6419.342	6526.209	6523.978
15	5782.010	5810.736	5905.599	5983.898	5988.913
16	5316.676	5347.850	5440.541	5511.476	5527.251
17	4917.440	4948.475	5023.359	5080.218	5097.098
18	4574.234	4599.425	4666.531	4711.327	4729.905
19	4277.028	4300.423	4357.302	4393.766	4411.673
20	4025.645	4046.276	4091.605	4127.023	4131.801
21	3809.127	3825.059	3861.070	3894.869	3894.297
22	3624.356	3633.674	3661.610	3692.093	3699.062
23	3466.632	3468.290	3491.586	3512.119	3523.767
24	3321.247	3320.299	3340.180	3351.927	3366.280
25	3191.005	3187.964	3198.783	3204.647	3213.926
26	3065.856	3059.538	3061.157	3063.803	3066.330
27	2939.542	2927.144	2920.589	2917.667	2919.563
28	2800.317	2784.780	2766.597	2767.979	2766.222
29	2638.506	2624.785	2594.125	2583.385	2584.273
30	2466.805	2441.041	2403.845	2382.207	2389.927
31	2253.722	2230.406	2194.218	2173.370	2165.867
32	2015.883	1997.087	1964.828	1948.955	1940.939
33	1758.912	1745.764	1726.495	1720.197	1719.526
34	1496.572	1490.452	1487.332	1496.236	1506.088
35	1243.629	1245.189	1255.711	1280.864	1297.507
36	1015.680	1020.695	1045.571	1078.067	1095.243
37	815.964	826.250	857.305	894.283	906.602
38	653.719	675.613	698.712	734.802	741.593
39	542.607	557.671	577.670	606.810	608.014
40	446.006	456.983	482.234	503.062	511.572
41	386.936	394.517	408.456	420.953	424.743
42	346.168	350.057	357.974	364.370	365.871
43	315.606	317.521	321.075	323.325	322.200
44	291.658	292.112	293.593	292.507	291.402
45	271.284	271.619	271.264	269.211	265.716
46	253.259	252.923	251.541	248.659	246.072
47	236.260	235.846	233.871	230.950	228.482
48	220.367	219.913	217.761	214.682	212.332
49	205.324	204.791	202.658	199.618	197.328
50	190.971	190.378	188.384	185.403	183.291
51	177.565	176.914	174.959	172.195	170.162
52	164.831	164.239	162.324	159.797	157.803
53	153.025	152.433	150.696	148.307	146.352

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CANDELA TABULATION - (Cont.)

54	142.048	141.436	139.758	137.488	135.612
55	131.565	130.953	129.374	127.182	125.583
56	121.279	120.707	119.246	117.291	115.810
57	111.546	111.052	109.651	107.894	106.591
58	102.662	102.188	100.964	99.286	98.200
59	94.370	93.916	92.869	91.329	90.342
60	86.789	86.394	85.387	84.084	83.156
61	79.859	79.464	78.576	77.352	76.444
62	73.541	73.107	72.317	71.291	70.402
63	67.678	67.362	66.612	65.723	64.874
64	62.308	61.992	61.360	60.531	59.800
65	57.471	57.096	56.582	55.812	55.102
66	52.851	52.555	52.061	51.410	50.758
67	48.626	48.350	47.935	47.363	46.790
68	44.796	44.500	44.145	43.612	43.098
69	41.084	40.907	40.532	40.097	39.584
70	37.708	37.491	37.195	36.800	36.346
71	34.510	34.293	34.056	33.701	33.306
72	31.529	31.292	31.095	30.759	30.443
73	28.627	28.429	28.252	27.975	27.699
74	25.863	25.705	25.527	25.310	25.053
75	23.198	23.079	22.941	22.783	22.566
76	20.592	20.513	20.414	20.276	20.118
77	18.065	18.025	17.966	17.907	17.768
78	15.577	15.537	15.557	15.518	15.458
79	13.109	13.109	13.168	13.228	13.149
80	10.661	10.681	10.740	10.898	10.819
81	8.055	8.134	8.173	8.312	8.233
82	4.659	4.778	4.936	4.955	5.015
83	2.290	2.310	2.507	2.626	2.823
84	2.093	2.073	2.073	2.093	2.073
85	1.915	1.935	1.915	1.915	1.895
86	1.718	1.718	1.718	1.718	1.698
87	1.461	1.461	1.461	1.461	1.441
88	1.145	1.145	1.125	1.125	1.125
89	0.750	0.750	0.750	0.750	0.750
90	0.395	0.434	0.454	0.474	0.494
91	0.395	0.395	0.395	0.395	0.375
92	0.395	0.415	0.415	0.395	0.395
93	0.415	0.415	0.415	0.415	0.395
94	0.415	0.415	0.415	0.415	0.415
95	0.434	0.434	0.434	0.415	0.415
96	0.454	0.454	0.454	0.434	0.434
97	0.454	0.474	0.474	0.454	0.454
98	0.494	0.494	0.494	0.474	0.474
99	0.533	0.513	0.513	0.513	0.513
100	0.533	0.513	0.513	0.513	0.533
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
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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	2726.52	N.A.	50.30
0-30	4193.04	N.A.	77.30
0-40	5002.24	N.A.	92.20
0-60	5339.66	N.A.	98.40
0-80	5421.44	N.A.	99.90
0-90	5424.73	N.A.	100.00
10-90	4358.5	N.A.	80.30
20-40	2275.73	N.A.	41.90
20-50	2496.25	N.A.	46.00
40-70	394.69	N.A.	7.30
60-80	81.78	N.A.	1.50
70-80	24.50	N.A.	0.50
80-90	3.29	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	5425.24	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1066.22
10-20	1660.3
20-30	1466.52
30-40	809.20
40-50	220.52
50-60	116.90
60-70	57.28
70-80	24.50
80-90	3.29
90-100	0.49
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

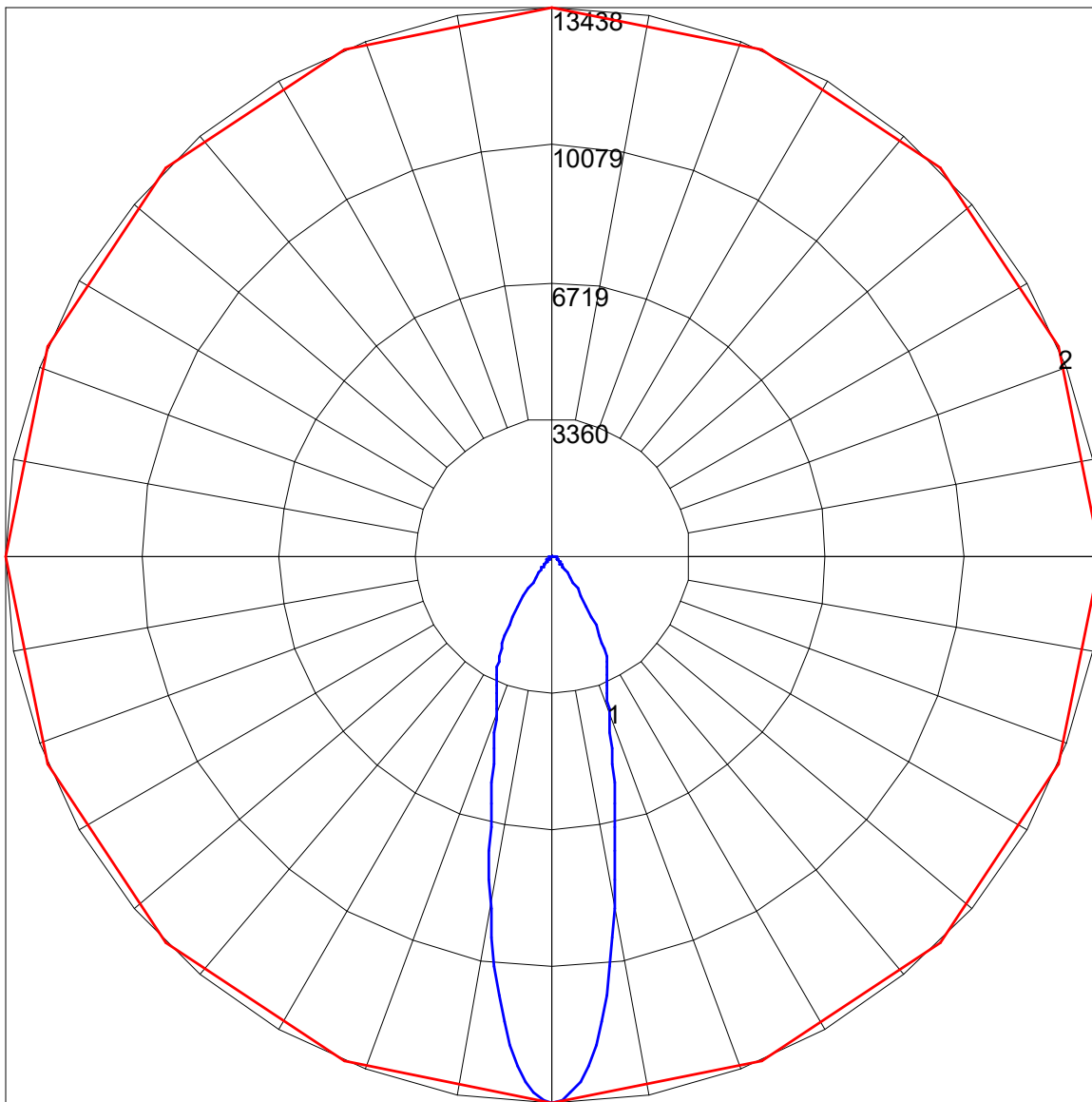
Reflectances

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	13.0	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	15.0	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 = 13438.051 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.)