

IES INDOOR REPORT

PHOTOMETRIC FILENAME : W6CR-XX-L50-827-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-L50-827-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	4496
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	45
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	17515	17514	17155
55	10472	10297	9996
65	6208	6112	5952
75	4092	4046	3980
85	1003	1003	993

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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	11136.880	11136.880	11136.880	11136.880	11136.880
1	11086.943	11091.149	11098.757	11108.296	11110.161
2	10946.003	10961.464	10992.847	11027.386	11037.645
3	10716.380	10747.631	10815.746	10890.192	10911.446
4	10402.641	10452.070	10564.525	10672.874	10704.976
5	10009.384	10073.424	10219.782	10357.090	10393.152
6	9544.479	9618.663	9781.316	9938.521	9975.990
7	9023.435	9099.976	9270.368	9424.873	9465.124
8	8452.979	8530.288	8692.271	8845.794	8877.291
9	7861.040	7936.648	8086.261	8229.754	8262.919
10	7277.919	7343.105	7482.279	7610.621	7646.552
11	6706.775	6760.148	6886.314	7001.093	7033.767
12	6162.187	6208.132	6321.143	6424.304	6448.176
13	5662.922	5699.719	5797.923	5892.086	5905.895
14	5199.881	5237.791	5320.075	5408.642	5406.793
15	4791.881	4815.688	4894.307	4959.198	4963.354
16	4406.233	4432.068	4508.887	4567.675	4580.748
17	4075.363	4101.084	4163.144	4210.267	4224.256
18	3790.928	3811.806	3867.420	3904.545	3919.942
19	3544.617	3564.006	3611.144	3641.365	3656.205
20	3336.282	3353.380	3390.946	3420.299	3424.259
21	3156.841	3170.045	3199.889	3227.900	3227.426
22	3003.710	3011.433	3034.585	3059.848	3065.624
23	2872.995	2874.370	2893.677	2910.693	2920.347
24	2752.507	2751.721	2768.198	2777.933	2789.828
25	2644.568	2642.048	2651.014	2655.873	2663.564
26	2540.850	2535.614	2536.956	2539.148	2541.242
27	2436.167	2425.891	2420.459	2418.037	2419.608
28	2320.783	2307.906	2292.836	2293.982	2292.526
29	2186.681	2175.309	2149.899	2140.999	2141.735
30	2044.382	2023.030	1992.204	1974.271	1980.669
31	1867.788	1848.465	1818.474	1801.195	1794.978
32	1670.677	1655.100	1628.365	1615.210	1608.567
33	1457.711	1446.814	1430.845	1425.625	1425.069
34	1240.294	1235.222	1232.637	1240.016	1248.181
35	1030.666	1031.959	1040.680	1061.525	1075.318
36	841.752	845.908	866.524	893.456	907.691
37	676.236	684.760	710.497	741.143	751.353
38	541.774	559.919	579.063	608.972	614.601
39	449.689	462.173	478.748	502.898	503.896
40	369.631	378.728	399.655	416.917	423.969
41	320.676	326.959	338.511	348.868	352.009
42	286.889	290.112	296.673	301.974	303.218
43	261.561	263.148	266.093	267.958	267.026
44	241.714	242.090	243.317	242.417	241.501
45	224.828	225.106	224.812	223.110	220.214
46	209.890	209.612	208.466	206.078	203.934
47	195.802	195.459	193.823	191.401	189.356
48	182.631	182.255	180.471	177.919	175.972
49	170.163	169.722	167.954	165.435	163.537
50	158.268	157.777	156.125	153.654	151.904
51	147.159	146.619	144.999	142.708	141.023
52	136.605	136.114	134.527	132.433	130.780
53	126.821	126.330	124.890	122.910	121.290

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CANDELA TABULATION - (Cont.)

54	117.724	117.216	115.826	113.944	112.390
55	109.035	108.528	107.219	105.403	104.078
56	100.511	100.036	98.826	97.206	95.979
57	92.445	92.035	90.874	89.418	88.338
58	85.082	84.689	83.675	82.284	81.384
59	78.210	77.833	76.966	75.690	74.872
60	71.927	71.599	70.765	69.685	68.916
61	66.184	65.856	65.120	64.106	63.353
62	60.948	60.588	59.933	59.083	58.346
63	56.088	55.827	55.205	54.469	53.765
64	51.638	51.376	50.853	50.165	49.560
65	47.629	47.318	46.893	46.255	45.666
66	43.801	43.555	43.146	42.606	42.066
67	40.299	40.070	39.727	39.252	38.778
68	37.125	36.880	36.585	36.143	35.718
69	34.049	33.902	33.591	33.231	32.806
70	31.251	31.071	30.826	30.499	30.122
71	28.601	28.421	28.224	27.930	27.602
72	26.130	25.934	25.770	25.492	25.230
73	23.725	23.561	23.414	23.185	22.956
74	21.434	21.303	21.156	20.976	20.763
75	19.225	19.127	19.012	18.882	18.702
76	17.065	17.000	16.918	16.804	16.673
77	14.971	14.938	14.889	14.840	14.726
78	12.910	12.877	12.893	12.860	12.811
79	10.864	10.864	10.913	10.962	10.897
80	8.835	8.852	8.901	9.032	8.966
81	6.676	6.741	6.774	6.888	6.823
82	3.861	3.960	4.090	4.107	4.156
83	1.898	1.914	2.078	2.176	2.340
84	1.734	1.718	1.718	1.734	1.718
85	1.587	1.603	1.587	1.587	1.571
86	1.423	1.423	1.423	1.423	1.407
87	1.211	1.211	1.211	1.211	1.194
88	0.949	0.949	0.933	0.933	0.933
89	0.622	0.622	0.622	0.622	0.622
90	0.327	0.360	0.376	0.393	0.409
91	0.327	0.327	0.327	0.327	0.311
92	0.327	0.344	0.344	0.327	0.327
93	0.344	0.344	0.344	0.344	0.327
94	0.344	0.344	0.344	0.344	0.344
95	0.360	0.360	0.360	0.344	0.344
96	0.376	0.376	0.376	0.360	0.360
97	0.376	0.393	0.393	0.376	0.376
98	0.409	0.409	0.409	0.393	0.393
99	0.442	0.425	0.425	0.425	0.425
100	0.442	0.425	0.425	0.425	0.442
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	2259.62	N.A.	50.30
0-30	3475.01	N.A.	77.30
0-40	4145.64	N.A.	92.20
0-60	4425.28	N.A.	98.40
0-80	4493.06	N.A.	99.90
0-90	4495.78	N.A.	100.00
10-90	3612.14	N.A.	80.30
20-40	1886.02	N.A.	41.90
20-50	2068.78	N.A.	46.00
40-70	327.11	N.A.	7.30
60-80	67.77	N.A.	1.50
70-80	20.31	N.A.	0.50
80-90	2.72	N.A.	0.10
90-110	0.43	N.A.	0.00
90-120	0.43	N.A.	0.00
90-130	0.43	N.A.	0.00
90-150	0.43	N.A.	0.00
90-180	0.43	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	4496.2	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	883.64
10-20	1375.98
20-30	1215.39
30-40	670.63
40-50	182.76
50-60	96.88
60-70	47.47
70-80	20.31
80-90	2.72
90-100	0.40
100-110	0.02
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

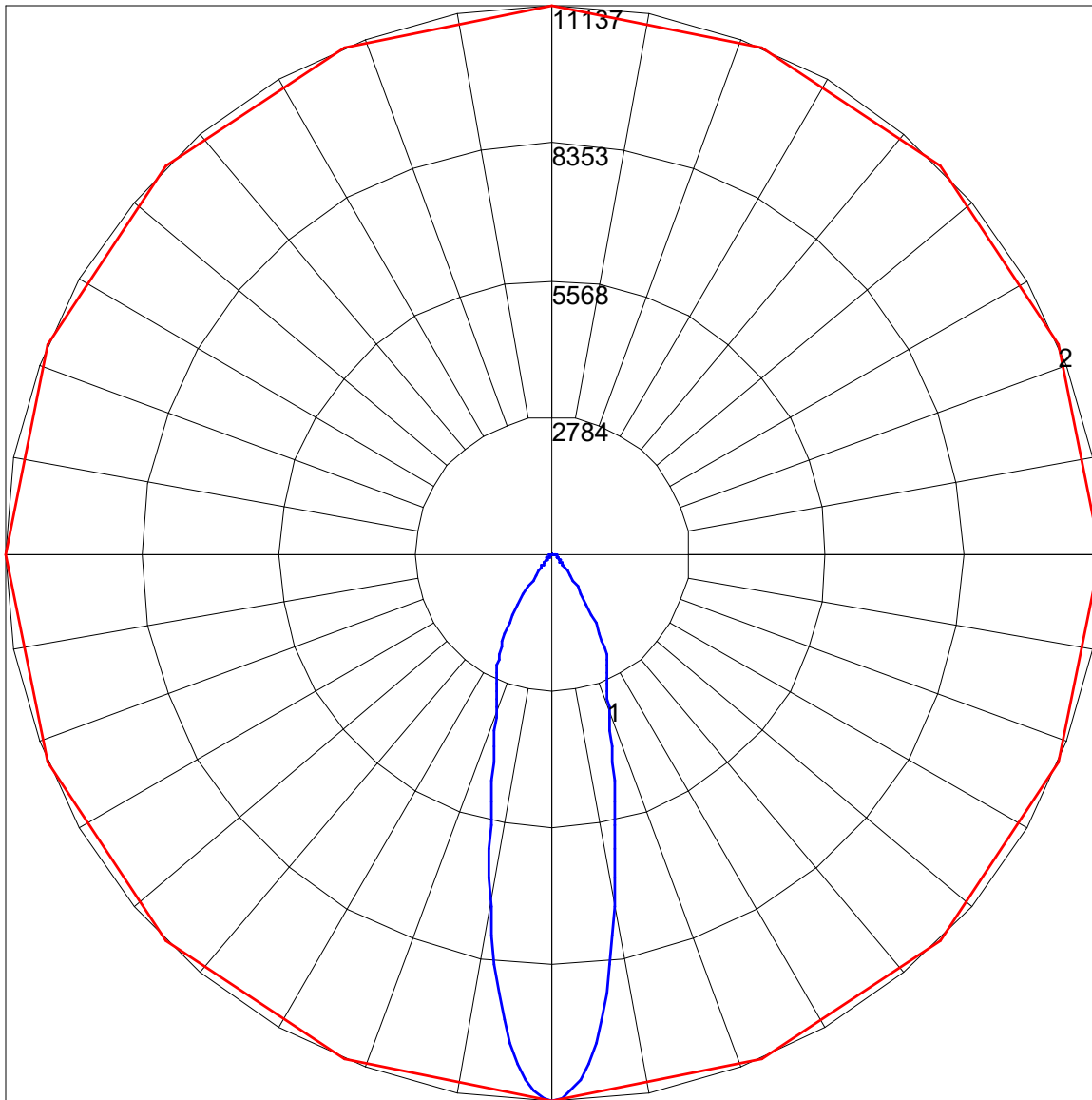
Reflectances

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	12.4	13.4	12.7	13.7	14.0	12.2	13.1	12.5	13.5	13.8
	3H	13.1	14.0	13.5	14.3	14.7	12.9	13.8	13.3	14.1	14.5
	4H	13.4	14.2	13.8	14.5	14.9	13.1	13.9	13.5	14.3	14.7
	6H	13.5	14.2	13.9	14.6	15.0	13.3	14.0	13.7	14.4	14.7
	8H	13.4	14.1	13.8	14.5	14.9	13.2	13.9	13.6	14.3	14.7
	12H	13.4	14.0	13.8	14.4	14.8	13.2	13.8	13.6	14.2	14.6
4H	2H	12.5	13.3	12.9	13.7	14.1	12.3	13.1	12.7	13.5	13.9
	3H	13.5	14.1	13.9	14.5	14.9	13.3	13.9	13.7	14.3	14.7
	4H	13.8	14.3	14.2	14.8	15.2	13.6	14.2	14.0	14.6	15.0
	6H	13.9	14.4	14.4	14.9	15.3	13.8	14.3	14.2	14.7	15.2
	8H	13.9	14.3	14.4	14.8	15.3	13.7	14.2	14.2	14.6	15.1
	12H	13.8	14.2	14.3	14.7	15.2	13.7	14.1	14.2	14.6	15.0
8H	4H	13.8	14.2	14.3	14.7	15.2	13.6	14.1	14.1	14.5	15.0
	6H	14.0	14.3	14.5	14.9	15.3	13.8	14.2	14.3	14.7	15.2
	8H	14.0	14.3	14.5	14.8	15.3	13.8	14.1	14.4	14.7	15.2
	12H	13.9	14.2	14.4	14.7	15.3	13.8	14.0	14.3	14.5	15.1
12H	4H	13.7	14.1	14.2	14.6	15.1	13.6	14.0	14.1	14.5	14.9
	6H	13.9	14.3	14.5	14.7	15.3	13.8	14.1	14.3	14.6	15.1
	8H	13.9	14.2	14.5	14.7	15.3	13.8	14.1	14.3	14.6	15.1

Maximum UGR = 15.3

POLAR GRAPH



Maximum Candela = 11136.88 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.)