

IES INDOOR REPORT

PHOTOMETRIC FILENAME : W6CR-XX-L50-950-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
[ISSUEDATE] 2025-07-15
[MANUFAC] H.E. WILLIAMS, INC.
[LUMCAT] W6CR-xx-L50-950-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	4359
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
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	16979	16977	16630
55	10151	9982	9690
65	6018	5925	5770
75	3967	3923	3858
85	973	973	963

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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	10795.957	10795.957	10795.957	10795.957	10795.957
1	10747.550	10751.626	10759.001	10768.249	10770.056
2	10610.924	10625.912	10656.333	10689.816	10699.761
3	10388.330	10418.624	10484.654	10556.821	10577.425
4	10084.195	10132.111	10241.124	10346.156	10377.275
5	9702.976	9765.056	9906.933	10040.039	10074.996
6	9252.303	9324.216	9481.891	9634.283	9670.605
7	8747.209	8821.407	8986.583	9136.359	9175.377
8	8194.216	8269.159	8426.183	8575.007	8605.539
9	7620.397	7693.691	7838.724	7977.824	8009.974
10	7055.127	7118.317	7253.231	7377.644	7412.475
11	6501.467	6553.206	6675.510	6786.775	6818.449
12	5973.550	6018.088	6127.640	6227.643	6250.785
13	5489.568	5525.239	5620.437	5711.717	5725.104
14	5040.702	5077.452	5157.217	5243.072	5241.280
15	4645.192	4668.270	4744.482	4807.387	4811.416
16	4271.349	4296.393	4370.861	4427.849	4440.522
17	3950.608	3975.541	4035.702	4081.382	4094.943
18	3674.880	3695.119	3749.030	3785.019	3799.944
19	3436.109	3454.904	3500.600	3529.895	3544.281
20	3234.151	3250.726	3287.143	3315.597	3319.436
21	3060.204	3073.003	3101.934	3129.088	3128.628
22	2911.761	2919.247	2941.690	2966.180	2971.779
23	2785.047	2786.379	2805.096	2821.591	2830.949
24	2668.247	2667.486	2683.457	2692.895	2704.426
25	2563.612	2561.169	2569.861	2574.572	2582.027
26	2463.069	2457.993	2459.294	2461.419	2463.450
27	2361.591	2351.630	2346.364	2344.016	2345.539
28	2249.739	2237.256	2222.648	2223.758	2222.347
29	2119.742	2108.719	2084.086	2075.458	2076.172
30	1981.799	1961.101	1931.218	1913.835	1920.036
31	1810.611	1791.880	1762.806	1746.057	1740.030
32	1619.534	1604.434	1578.517	1565.765	1559.326
33	1413.087	1402.524	1387.044	1381.984	1381.445
34	1202.326	1197.410	1194.904	1202.057	1209.971
35	999.115	1000.369	1008.822	1029.029	1042.400
36	815.985	820.013	839.998	866.105	879.904
37	655.535	663.798	688.748	718.455	728.353
38	525.189	542.779	561.336	590.330	595.786
39	435.923	448.025	464.093	487.503	488.471
40	358.316	367.134	387.421	404.154	410.990
41	310.860	316.950	328.148	338.188	341.233
42	278.107	281.231	287.591	292.730	293.936
43	253.554	255.092	257.947	259.755	258.851
44	234.314	234.679	235.869	234.996	234.108
45	217.946	218.216	217.930	216.280	213.473
46	203.465	203.195	202.085	199.769	197.691
47	189.808	189.475	187.889	185.542	183.559
48	177.040	176.676	174.947	172.472	170.585
49	164.954	164.526	162.813	160.370	158.531
50	153.423	152.948	151.346	148.951	147.253
51	142.654	142.130	140.560	138.340	136.706
52	132.423	131.948	130.409	128.379	126.777
53	122.939	122.463	121.067	119.148	117.578

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CANDELA TABULATION - (Cont.)

54	114.120	113.628	112.280	110.456	108.949
55	105.698	105.206	103.937	102.176	100.892
56	97.434	96.974	95.800	94.230	93.041
57	89.615	89.218	88.092	86.680	85.633
58	82.477	82.096	81.113	79.765	78.893
59	75.816	75.451	74.610	73.373	72.580
60	69.725	69.408	68.599	67.552	66.806
61	64.158	63.840	63.127	62.143	61.414
62	59.082	58.733	58.099	57.274	56.560
63	54.371	54.118	53.515	52.801	52.119
64	50.057	49.804	49.296	48.630	48.043
65	46.171	45.870	45.458	44.839	44.268
66	42.460	42.222	41.825	41.302	40.779
67	39.066	38.844	38.510	38.051	37.591
68	35.989	35.751	35.465	35.037	34.625
69	33.007	32.864	32.563	32.214	31.801
70	30.294	30.120	29.882	29.565	29.200
71	27.725	27.551	27.360	27.075	26.757
72	25.330	25.140	24.981	24.711	24.458
73	22.998	22.840	22.697	22.475	22.253
74	20.778	20.651	20.508	20.334	20.128
75	18.637	18.541	18.430	18.304	18.129
76	16.543	16.480	16.400	16.289	16.162
77	14.513	14.481	14.434	14.386	14.275
78	12.514	12.483	12.498	12.467	12.419
79	10.532	10.532	10.579	10.627	10.563
80	8.565	8.581	8.628	8.755	8.692
81	6.471	6.535	6.566	6.677	6.614
82	3.743	3.838	3.965	3.981	4.029
83	1.840	1.856	2.014	2.110	2.268
84	1.681	1.665	1.665	1.681	1.665
85	1.539	1.554	1.539	1.539	1.523
86	1.380	1.380	1.380	1.380	1.364
87	1.174	1.174	1.174	1.174	1.158
88	0.920	0.920	0.904	0.904	0.904
89	0.603	0.603	0.603	0.603	0.603
90	0.317	0.349	0.365	0.381	0.397
91	0.317	0.317	0.317	0.317	0.301
92	0.317	0.333	0.333	0.317	0.317
93	0.333	0.333	0.333	0.333	0.317
94	0.333	0.333	0.333	0.333	0.333
95	0.349	0.349	0.349	0.333	0.333
96	0.365	0.365	0.365	0.349	0.349
97	0.365	0.381	0.381	0.365	0.365
98	0.397	0.397	0.397	0.381	0.381
99	0.428	0.412	0.412	0.412	0.412
100	0.428	0.412	0.412	0.412	0.428
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	2190.45	N.A.	50.30
0-30	3368.63	N.A.	77.30
0-40	4018.74	N.A.	92.20
0-60	4289.81	N.A.	98.40
0-80	4355.52	N.A.	99.90
0-90	4358.15	N.A.	100.00
10-90	3501.57	N.A.	80.30
20-40	1828.29	N.A.	41.90
20-50	2005.45	N.A.	46.00
40-70	317.09	N.A.	7.30
60-80	65.70	N.A.	1.50
70-80	19.69	N.A.	0.50
80-90	2.64	N.A.	0.10
90-110	0.41	N.A.	0.00
90-120	0.41	N.A.	0.00
90-130	0.41	N.A.	0.00
90-150	0.41	N.A.	0.00
90-180	0.41	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	4358.57	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	856.59
10-20	1333.86
20-30	1178.19
30-40	650.10
40-50	177.16
50-60	93.91
60-70	46.01
70-80	19.69
80-90	2.64
90-100	0.39
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	82	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

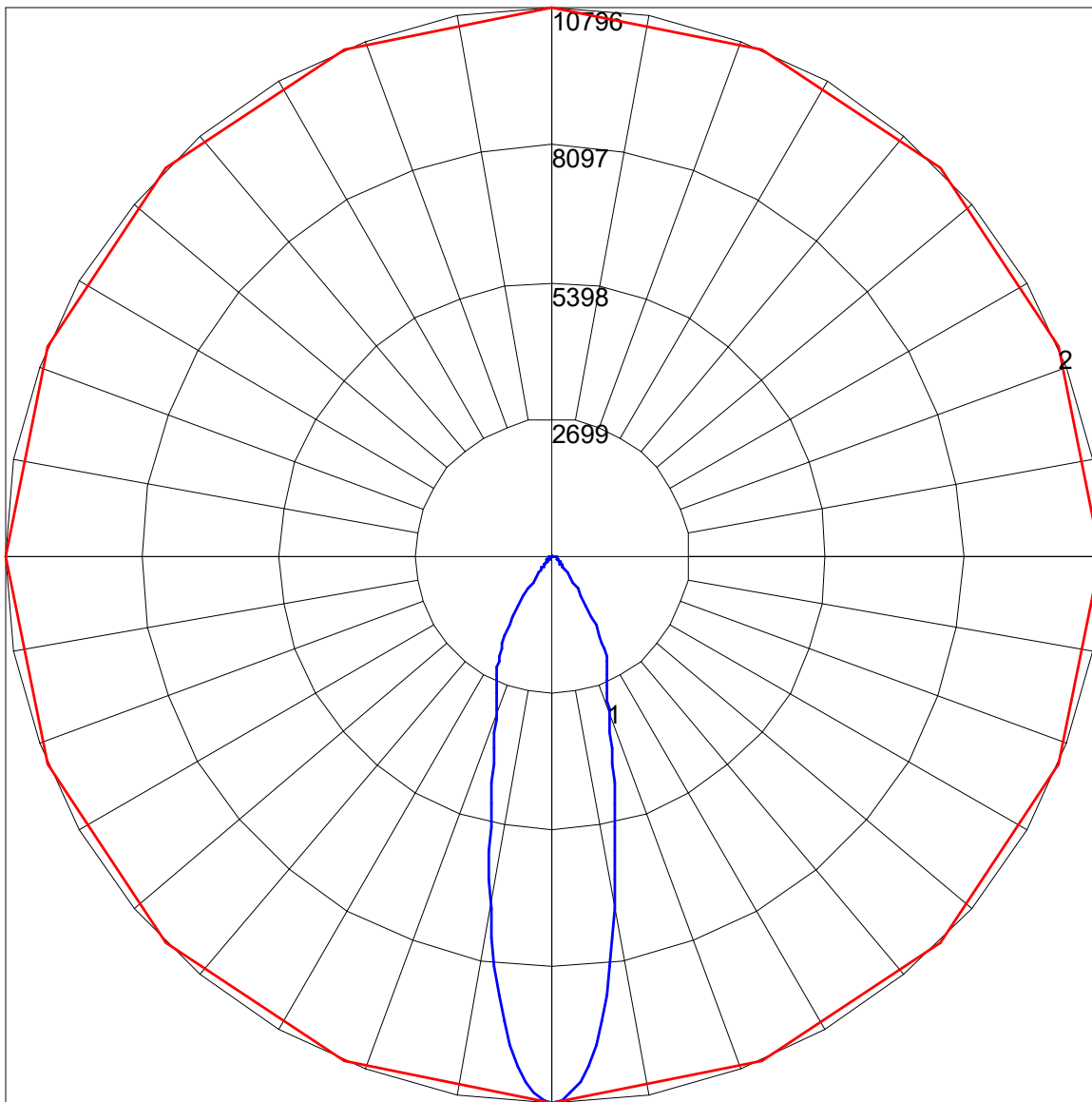
Reflectances

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	12.3	13.3	12.6	13.6	13.9	12.1	13.0	12.4	13.4	13.7
	3H	13.0	13.9	13.4	14.2	14.6	12.8	13.7	13.2	14.0	14.4
	4H	13.3	14.1	13.7	14.4	14.8	13.0	13.8	13.4	14.2	14.6
	6H	13.4	14.1	13.8	14.5	14.9	13.2	13.9	13.6	14.3	14.6
	8H	13.3	14.0	13.7	14.4	14.8	13.1	13.8	13.5	14.2	14.6
	12H	13.3	13.9	13.7	14.3	14.7	13.1	13.7	13.5	14.1	14.5
4H	2H	12.4	13.2	12.8	13.6	14.0	12.2	13.0	12.6	13.4	13.8
	3H	13.4	14.0	13.8	14.4	14.8	13.2	13.8	13.6	14.2	14.6
	4H	13.7	14.2	14.1	14.7	15.1	13.5	14.1	13.9	14.5	14.9
	6H	13.8	14.3	14.3	14.8	15.2	13.7	14.1	14.1	14.6	15.1
	8H	13.8	14.2	14.3	14.7	15.2	13.6	14.1	14.1	14.5	15.0
	12H	13.7	14.1	14.2	14.6	15.1	13.6	14.0	14.1	14.5	14.9
8H	4H	13.7	14.1	14.2	14.6	15.1	13.5	14.0	14.0	14.4	14.9
	6H	13.9	14.2	14.4	14.8	15.2	13.7	14.1	14.2	14.6	15.1
	8H	13.9	14.2	14.4	14.7	15.2	13.7	14.0	14.3	14.6	15.1
	12H	13.8	14.1	14.3	14.6	15.2	13.7	13.9	14.2	14.4	15.0
12H	4H	13.6	14.0	14.1	14.5	15.0	13.5	13.9	14.0	14.4	14.8
	6H	13.8	14.2	14.4	14.6	15.2	13.7	14.0	14.2	14.5	15.0
	8H	13.8	14.1	14.4	14.6	15.2	13.7	14.0	14.2	14.5	15.0

Maximum UGR = 15.2

POLAR GRAPH



Maximum Candela = 10795.957 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.)