

IES INDOOR REPORT

PHOTOMETRIC FILENAME : W6CR-XX-L50-850-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-L50-850-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	4542
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
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	17694	17692	17330
55	10578	10402	10098
65	6271	6175	6013
75	4133	4088	4021
85	1013	1013	1003

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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	11250.523	11250.523	11250.523	11250.523	11250.523
1	11200.077	11204.325	11212.011	11221.647	11223.531
2	11057.698	11073.317	11105.020	11139.912	11150.276
3	10825.732	10857.302	10926.112	11001.318	11022.789
4	10508.792	10558.725	10672.328	10781.782	10814.212
5	10111.522	10176.216	10324.066	10462.776	10499.206
6	9641.872	9716.814	9881.127	10039.936	10077.787
7	9115.512	9192.834	9364.965	9521.047	9561.708
8	8539.235	8617.333	8780.969	8936.059	8967.877
9	7941.255	8017.635	8168.774	8313.732	8347.236
10	7352.184	7418.035	7558.629	7688.281	7724.578
11	6775.212	6829.130	6956.583	7072.533	7105.541
12	6225.067	6271.481	6385.645	6489.859	6513.975
13	5720.707	5757.881	5857.087	5952.210	5966.160
14	5252.942	5291.239	5374.362	5463.833	5461.965
15	4840.779	4864.828	4944.249	5009.803	5014.001
16	4451.195	4477.294	4554.896	4614.284	4627.491
17	4116.949	4142.932	4205.626	4253.229	4267.361
18	3829.612	3850.703	3906.884	3944.388	3959.942
19	3580.787	3600.374	3647.993	3678.522	3693.514
20	3370.326	3387.598	3425.548	3455.201	3459.201
21	3189.054	3202.393	3232.541	3260.839	3260.359
22	3034.361	3042.162	3065.551	3091.071	3096.906
23	2902.312	2903.700	2923.205	2940.394	2950.146
24	2780.594	2779.800	2796.445	2806.280	2818.296
25	2671.553	2669.008	2678.065	2682.974	2690.743
26	2566.777	2561.488	2562.843	2565.058	2567.174
27	2461.026	2450.646	2445.158	2442.712	2444.298
28	2344.464	2331.456	2316.233	2317.390	2315.919
29	2208.994	2197.507	2171.837	2162.846	2163.589
30	2065.243	2043.673	2012.533	1994.417	2000.880
31	1886.848	1867.327	1837.030	1819.575	1813.294
32	1687.725	1671.989	1644.981	1631.692	1624.981
33	1472.586	1461.577	1445.445	1440.173	1439.611
34	1252.951	1247.827	1245.215	1252.670	1260.918
35	1041.183	1042.489	1051.299	1072.357	1086.291
36	850.342	854.540	875.366	902.573	916.953
37	683.136	691.748	717.747	748.706	759.020
38	547.302	565.633	584.971	615.186	620.872
39	454.278	466.890	483.633	508.030	509.038
40	373.403	382.593	403.733	421.171	428.295
41	323.948	330.295	341.965	352.427	355.601
42	289.816	293.072	299.701	305.056	306.312
43	264.230	265.833	268.808	270.692	269.750
44	244.180	244.560	245.800	244.891	243.965
45	227.123	227.404	227.106	225.387	222.461
46	212.032	211.751	210.594	208.180	206.015
47	197.800	197.453	195.800	193.354	191.288
48	184.495	184.115	182.313	179.734	177.767
49	171.900	171.453	169.668	167.123	165.206
50	159.883	159.387	157.718	155.222	153.454
51	148.660	148.115	146.478	144.164	142.462
52	137.999	137.503	135.900	133.784	132.115
53	128.115	127.619	126.164	124.164	122.528

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CANDELA TABULATION - (Cont.)

54	118.925	118.412	117.008	115.107	113.536
55	110.148	109.636	108.313	106.479	105.140
56	101.537	101.057	99.834	98.198	96.958
57	93.388	92.975	91.801	90.330	89.239
58	85.950	85.553	84.528	83.123	82.214
59	79.008	78.628	77.752	76.462	75.636
60	72.661	72.330	71.487	70.396	69.619
61	66.859	66.528	65.785	64.760	64.000
62	61.570	61.206	60.545	59.686	58.942
63	56.661	56.396	55.768	55.024	54.314
64	52.165	51.900	51.372	50.677	50.066
65	48.115	47.801	47.372	46.727	46.132
66	44.248	44.000	43.586	43.041	42.496
67	40.710	40.479	40.132	39.653	39.173
68	37.504	37.256	36.958	36.512	36.082
69	34.396	34.248	33.934	33.570	33.140
70	31.570	31.388	31.140	30.810	30.430
71	28.892	28.711	28.512	28.215	27.884
72	26.397	26.198	26.033	25.752	25.487
73	23.967	23.801	23.653	23.421	23.190
74	21.653	21.521	21.372	21.190	20.975
75	19.421	19.322	19.206	19.074	18.892
76	17.240	17.173	17.091	16.975	16.843
77	15.124	15.091	15.041	14.992	14.876
78	13.041	13.008	13.025	12.992	12.942
79	10.975	10.975	11.025	11.074	11.008
80	8.926	8.942	8.992	9.124	9.058
81	6.744	6.810	6.843	6.959	6.893
82	3.901	4.000	4.132	4.149	4.198
83	1.917	1.934	2.099	2.198	2.364
84	1.752	1.736	1.736	1.752	1.736
85	1.603	1.620	1.603	1.603	1.587
86	1.438	1.438	1.438	1.438	1.421
87	1.223	1.223	1.223	1.223	1.207
88	0.959	0.959	0.942	0.942	0.942
89	0.628	0.628	0.628	0.628	0.628
90	0.331	0.364	0.380	0.397	0.413
91	0.331	0.331	0.331	0.331	0.314
92	0.331	0.347	0.347	0.331	0.331
93	0.347	0.347	0.347	0.347	0.331
94	0.347	0.347	0.347	0.347	0.347
95	0.364	0.364	0.364	0.347	0.347
96	0.380	0.380	0.380	0.364	0.364
97	0.380	0.397	0.397	0.380	0.380
98	0.413	0.413	0.413	0.397	0.397
99	0.446	0.430	0.430	0.430	0.430
100	0.446	0.430	0.430	0.430	0.446
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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Zone	Lumens	%Lamp	%Fixt
0-20	2282.68	N.A.	50.30
0-30	3510.47	N.A.	77.30
0-40	4187.95	N.A.	92.20
0-60	4470.44	N.A.	98.40
0-80	4538.9	N.A.	99.90
0-90	4541.66	N.A.	100.00
10-90	3649.00	N.A.	80.30
20-40	1905.27	N.A.	41.90
20-50	2089.89	N.A.	46.00
40-70	330.44	N.A.	7.30
60-80	68.47	N.A.	1.50
70-80	20.51	N.A.	0.50
80-90	2.75	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	4542.09	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	892.66
10-20	1390.02
20-30	1227.79
30-40	677.48
40-50	184.62
50-60	97.87
60-70	47.95
70-80	20.51
80-90	2.75
90-100	0.41
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

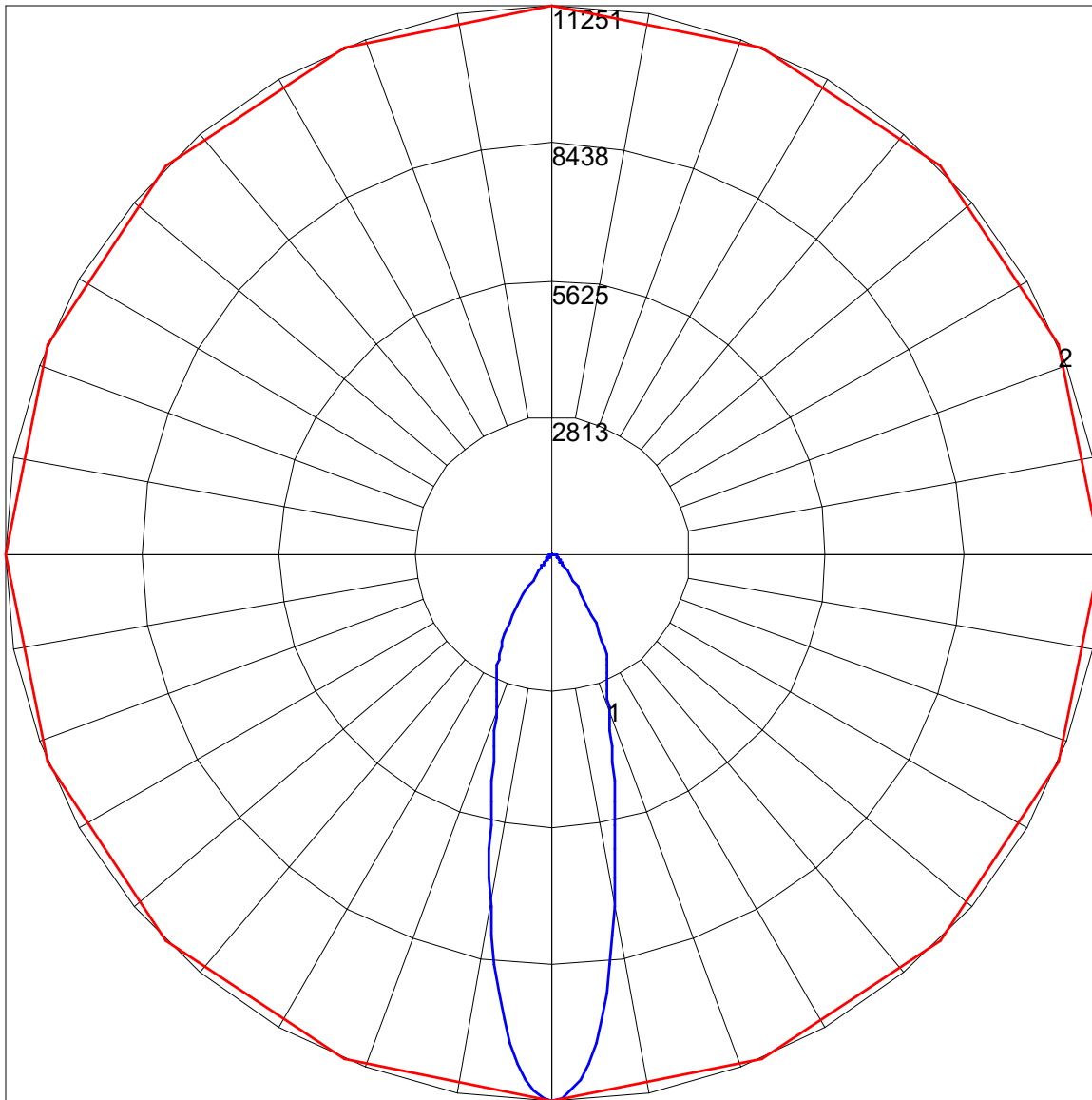
Reflectances

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	14.9	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	14.2	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 = 11250.523 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.)