

IES INDOOR REPORT

PHOTOMETRIC FILENAME : W6CR-XX-L70-950-RDB-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-L70-950-RDB-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	5885
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	63.7
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	22926	22924	22455
55	13707	13478	13083
65	8126	8001	7791
75	5356	5297	5210
85	1313	1313	1299

IES INDOOR REPORT
 PHOTOMETRIC FILENAME : W6CR-XX-L70-950-RDB-XXX-DIM-UNV-N-XXX_.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	14577.369	14577.369	14577.369	14577.369	14577.369
1	14512.006	14517.511	14527.469	14539.955	14542.396
2	14327.525	14347.763	14388.840	14434.050	14447.478
3	14026.965	14067.871	14157.028	14254.473	14282.293
4	13616.304	13681.003	13828.199	13970.019	14012.039
5	13101.559	13185.383	13376.954	13556.681	13603.883
6	12493.031	12590.133	12803.035	13008.805	13057.848
7	11811.023	11911.210	12134.240	12336.477	12389.161
8	11064.337	11165.530	11377.553	11578.504	11619.731
9	10289.532	10388.497	10584.330	10772.152	10815.563
10	9526.269	9611.592	9793.761	9961.752	10008.782
11	8778.683	8848.544	9013.686	9163.924	9206.692
12	8065.857	8125.995	8273.918	8408.949	8440.196
13	7412.354	7460.520	7589.062	7712.314	7730.389
14	6806.268	6855.890	6963.593	7079.520	7077.101
15	6272.226	6303.387	6406.293	6491.231	6496.671
16	5767.439	5801.256	5901.806	5978.756	5995.867
17	5334.355	5368.022	5449.254	5510.934	5529.245
18	4962.051	4989.378	5062.173	5110.767	5130.920
19	4639.647	4665.026	4726.727	4766.283	4785.708
20	4366.951	4389.331	4438.503	4476.924	4482.107
21	4132.076	4149.359	4188.423	4225.088	4224.467
22	3931.639	3941.748	3972.052	4005.119	4012.679
23	3760.543	3762.342	3787.613	3809.886	3822.522
24	3602.832	3601.804	3623.370	3636.113	3651.683
25	3461.547	3458.249	3469.985	3476.346	3486.412
26	3325.788	3318.935	3320.691	3323.561	3326.302
27	3188.766	3175.316	3168.206	3165.036	3167.092
28	3037.736	3020.882	3001.157	3002.656	3000.750
29	2862.207	2847.322	2814.062	2802.412	2803.376
30	2675.948	2647.999	2607.650	2584.178	2592.552
31	2444.800	2419.507	2380.250	2357.634	2349.496
32	2186.795	2166.406	2131.412	2114.193	2105.498
33	1908.038	1893.775	1872.872	1866.040	1865.312
34	1623.456	1616.817	1613.433	1623.092	1633.778
35	1349.068	1350.759	1362.174	1389.459	1407.513
36	1101.793	1107.233	1134.217	1169.469	1188.101
37	885.144	896.302	929.990	970.103	983.467
38	709.143	732.894	757.951	797.100	804.468
39	588.611	604.952	626.647	658.257	659.564
40	483.820	495.727	523.119	545.714	554.944
41	419.742	427.966	443.086	456.642	460.754
42	375.517	379.736	388.324	395.263	396.890
43	342.364	344.441	348.296	350.738	349.517
44	316.386	316.878	318.485	317.307	316.107
45	294.284	294.648	294.263	292.035	288.245
46	274.731	274.367	272.868	269.741	266.935
47	256.291	255.841	253.700	250.530	247.853
48	239.051	238.558	236.224	232.883	230.334
49	222.731	222.153	219.840	216.542	214.058
50	207.162	206.519	204.356	201.122	198.831
51	192.620	191.913	189.793	186.795	184.589
52	178.806	178.164	176.086	173.345	171.182
53	165.999	165.357	163.472	160.881	158.760

IES INDOOR REPORT**PHOTOMETRIC FILENAME : W6CR-XX-L70-950-RDB-XXX-DIM-UNV-N-XXX_.IES****CANDELA TABULATION - (Cont.)**

54	154.092	153.428	151.607	149.144	147.110
55	142.719	142.056	140.342	137.965	136.230
56	131.561	130.940	129.356	127.235	125.629
57	121.003	120.468	118.947	117.041	115.628
58	111.366	110.852	109.524	107.704	106.526
59	102.371	101.878	100.743	99.073	98.002
60	94.147	93.719	92.626	91.213	90.206
61	86.630	86.201	85.238	83.910	82.925
62	79.776	79.305	78.449	77.335	76.371
63	73.416	73.073	72.259	71.295	70.375
64	67.590	67.248	66.562	65.663	64.871
65	62.343	61.936	61.380	60.544	59.773
66	57.332	57.011	56.475	55.769	55.062
67	52.749	52.449	51.999	51.378	50.757
68	48.594	48.273	47.887	47.309	46.752
69	44.568	44.375	43.968	43.497	42.940
70	40.905	40.670	40.349	39.920	39.428
71	37.436	37.200	36.943	36.558	36.130
72	34.202	33.945	33.731	33.367	33.024
73	31.054	30.840	30.647	30.347	30.047
74	28.056	27.884	27.692	27.456	27.178
75	25.164	25.036	24.886	24.715	24.479
76	22.337	22.252	22.145	21.995	21.823
77	19.596	19.553	19.489	19.425	19.275
78	16.898	16.855	16.876	16.833	16.769
79	14.221	14.221	14.285	14.349	14.263
80	11.565	11.586	11.651	11.822	11.736
81	8.738	8.824	8.866	9.016	8.931
82	5.054	5.183	5.354	5.376	5.440
83	2.484	2.506	2.720	2.848	3.063
84	2.270	2.249	2.249	2.270	2.249
85	2.077	2.099	2.077	2.077	2.056
86	1.863	1.863	1.863	1.863	1.842
87	1.585	1.585	1.585	1.585	1.563
88	1.242	1.242	1.221	1.221	1.221
89	0.814	0.814	0.814	0.814	0.814
90	0.428	0.471	0.493	0.514	0.535
91	0.428	0.428	0.428	0.428	0.407
92	0.428	0.450	0.450	0.428	0.428
93	0.450	0.450	0.450	0.450	0.428
94	0.450	0.450	0.450	0.450	0.450
95	0.471	0.471	0.471	0.450	0.450
96	0.493	0.493	0.493	0.471	0.471
97	0.493	0.514	0.514	0.493	0.493
98	0.535	0.535	0.535	0.514	0.514
99	0.578	0.557	0.557	0.557	0.557
100	0.578	0.557	0.557	0.557	0.578
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : W6CR-XX-L70-950-RDB-XXX-DIM-UNV-N-XXX_.IES

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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : W6CR-XX-L70-950-RDB-XXX-DIM-UNV-N-XXX_.IES****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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : W6CR-XX-L70-950-RDB-XXX-DIM-UNV-N-XXX_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2957.68	N.A.	50.30
0-30	4548.54	N.A.	77.30
0-40	5426.35	N.A.	92.20
0-60	5792.37	N.A.	98.40
0-80	5881.09	N.A.	99.90
0-90	5884.65	N.A.	100.00
10-90	4728.03	N.A.	80.30
20-40	2468.67	N.A.	41.90
20-50	2707.89	N.A.	46.00
40-70	428.16	N.A.	7.30
60-80	88.71	N.A.	1.50
70-80	26.58	N.A.	0.50
80-90	3.56	N.A.	0.10
90-110	0.56	N.A.	0.00
90-120	0.56	N.A.	0.00
90-130	0.56	N.A.	0.00
90-150	0.56	N.A.	0.00
90-180	0.56	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	5885.21	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1156.62
10-20	1801.06
20-30	1590.86
30-40	877.81
40-50	239.22
50-60	126.81
60-70	62.13
70-80	26.58
80-90	3.56
90-100	0.53
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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : W6CR-XX-L70-950-RDB-XXX-DIM-UNV-N-XXX_.IES****COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	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

IES INDOOR REPORT

PHOTOMETRIC FILENAME : W6CR-XX-L70-950-RDB-XXX-DIM-UNV-N-XXX_.IES

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

X=2H	Y=2H	13.3	14.3	13.6	14.6	14.9	13.1	14.0	13.4	14.4	14.7
	3H	14.0	14.9	14.4	15.2	15.6	13.8	14.7	14.2	15.0	15.4
	4H	14.3	15.1	14.7	15.4	15.8	14.0	14.8	14.4	15.2	15.6
	6H	14.4	15.1	14.8	15.5	15.9	14.2	14.9	14.6	15.3	15.6
	8H	14.3	15.0	14.7	15.4	15.8	14.1	14.8	14.5	15.2	15.6
	12H	14.3	14.9	14.7	15.3	15.7	14.1	14.7	14.5	15.1	15.5

UGR Viewed Endwise

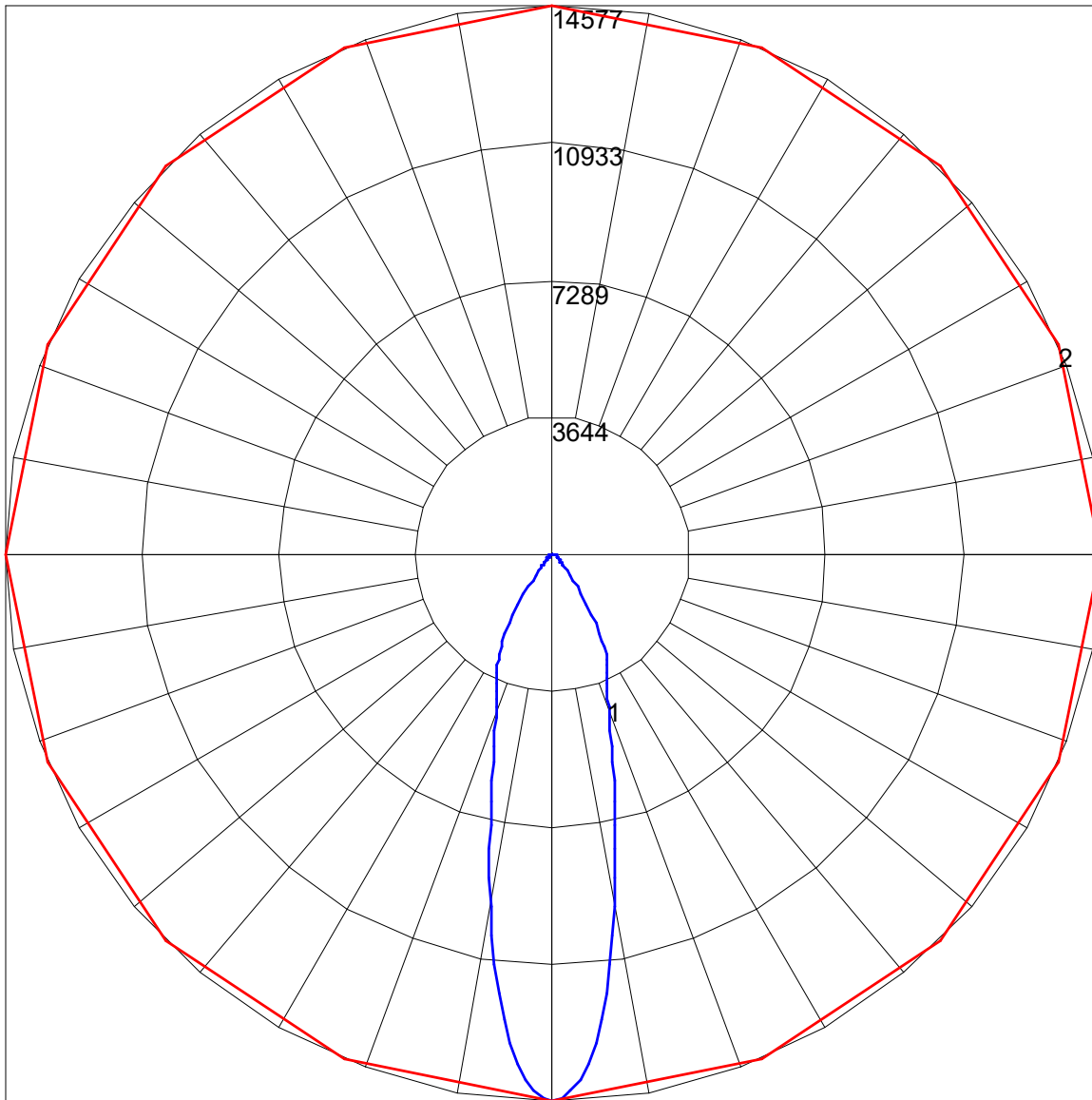
4H	2H	13.4	14.2	13.8	14.6	15.0	13.2	14.0	13.6	14.4	14.8
	3H	14.4	15.0	14.8	15.4	15.8	14.2	14.8	14.6	15.2	15.6
	4H	14.7	15.2	15.1	15.7	16.1	14.5	15.1	14.9	15.5	15.9
	6H	14.8	15.3	15.3	15.8	16.2	14.7	15.2	15.1	15.6	16.1
	8H	14.8	15.2	15.3	15.7	16.2	14.6	15.1	15.1	15.5	16.0
	12H	14.7	15.1	15.2	15.6	16.1	14.6	15.0	15.1	15.5	15.9

8H	4H	14.7	15.1	15.2	15.6	16.1	14.5	15.0	15.0	15.4	15.9
	6H	14.9	15.2	15.4	15.8	16.2	14.7	15.1	15.2	15.6	16.1
	8H	14.9	15.2	15.4	15.7	16.2	14.7	15.0	15.3	15.6	16.1
	12H	14.8	15.1	15.3	15.6	16.2	14.7	14.9	15.2	15.4	16.0

12H	4H	14.6	15.0	15.1	15.5	16.0	14.5	14.9	15.0	15.4	15.8
	6H	14.8	15.2	15.4	15.6	16.2	14.7	15.0	15.2	15.5	16.0
	8H	14.8	15.1	15.4	15.6	16.2	14.7	15.0	15.2	15.5	16.0

Maximum UGR = 16.2

POLAR GRAPH



Maximum Candela = 14577.369 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.)