

IES INDOOR REPORT

PHOTOMETRIC FILENAME : W6CR-XX-L70-850-RDB-XXX-DIM-UNV-S-XXX_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] W6CR_Angela-S_(V22)_measured
[TESTLAB] LEDIL Inc
[TESTDATE] 21 Aug 2024
[ISSUE DATE] 2025-07-15
[MANUFAC] H.E. WILLIAMS, INC.
[LUMCAT] W6CR-xx-L70-850-RDB-xxx-DIM-UNV-S-xxx
[LUMINAIRE] 6 INCH ROUND WET LOCATION LED
[MORE] CYLINDER WITH SPOT DISTRIBUTION
[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	6874
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	63.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.34
Spacing Criterion (90-270)	0.34
Spacing Criterion (Diagonal)	0.32
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	7419	7625	7723
55	8419	8184	8021
65	6216	6108	5933
75	4395	4400	4318
85	1206	1234	1206

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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	37149.607	37149.607	37149.607	37149.607	37149.607
1	37717.617	37735.932	37662.494	37628.223	37565.086
2	39011.954	39057.850	38817.367	38684.589	38439.162
3	40170.957	40253.798	39847.607	39590.086	39145.315
4	40238.490	40362.471	39844.556	39529.623	38892.936
5	38597.685	38717.716	38236.855	37910.433	37210.719
6	35238.239	35372.319	35029.827	34776.905	34112.972
7	30700.042	30804.093	30661.798	30532.857	30001.253
8	25628.218	25751.706	25757.878	25836.835	25423.440
9	20776.099	20903.242	21067.644	21261.200	20996.273
10	16594.400	16725.921	16972.849	17229.628	17074.048
11	13177.520	13314.518	13596.122	13861.229	13771.925
12	10522.096	10655.367	10905.122	11160.377	11084.315
13	8520.752	8640.849	8860.351	9080.053	8997.819
14	7016.743	7192.119	7340.316	7512.753	7401.184
15	5949.603	5946.102	6151.913	6290.549	6263.773
16	5003.459	5073.125	5207.968	5317.113	5255.370
17	4357.255	4413.028	4524.193	4606.045	4552.786
18	3871.726	3916.794	4003.091	4070.602	4030.001
19	3515.699	3549.343	3616.495	3671.011	3637.368
20	3251.782	3280.689	3330.246	3382.517	3340.862
21	3079.233	3082.959	3131.595	3171.522	3123.672
22	2935.615	2947.151	2964.747	3005.460	2975.071
23	2835.493	2844.515	2855.782	2884.174	2853.695
24	2755.076	2758.757	2765.580	2779.966	2754.560
25	2687.049	2689.361	2688.014	2693.041	2662.630
26	2622.231	2620.009	2605.578	2608.630	2572.428
27	2548.570	2538.672	2515.645	2512.031	2477.109
28	2455.091	2441.984	2404.323	2392.742	2365.944
29	2333.647	2317.061	2267.393	2246.206	2224.031
30	2175.216	2155.757	2100.254	2074.667	2047.017
31	1976.049	1956.949	1903.196	1879.832	1846.413
32	1746.493	1730.693	1684.974	1671.643	1641.725
33	1489.735	1481.543	1452.770	1451.132	1435.309
34	1224.336	1223.865	1216.436	1232.169	1228.107
35	966.636	974.603	986.521	1019.311	1022.678
36	736.137	751.982	779.902	822.591	827.820
37	544.533	556.833	590.925	638.169	648.449
38	376.631	396.247	440.865	487.481	497.312
39	272.873	287.865	319.601	360.920	372.613
40	190.122	205.631	238.982	264.928	270.785
41	146.199	156.860	176.858	201.479	202.354
42	121.354	127.751	139.399	152.147	156.120
43	107.259	110.895	117.337	124.923	125.955
44	99.606	101.424	104.835	108.987	108.359
45	95.229	96.396	97.878	100.167	99.135
46	92.671	93.591	94.085	95.588	94.466
47	91.145	91.908	91.818	92.985	91.908
48	90.247	90.763	90.382	91.257	90.269
49	89.663	90.000	89.416	90.022	89.035
50	89.259	89.394	88.608	89.057	87.980
51	89.012	89.035	87.980	88.227	87.060
52	88.923	88.788	87.441	87.509	86.297
53	88.900	88.564	86.992	86.903	85.601

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CANDELA TABULATION - (Cont.)

54	88.766	88.227	86.454	86.140	84.771
55	87.666	87.082	85.219	84.771	83.514
56	85.601	84.995	83.042	82.459	81.516
57	82.728	82.324	80.192	79.608	78.778
58	79.429	79.092	76.915	76.264	75.793
59	75.456	75.232	73.055	72.471	72.112
60	70.990	70.833	68.835	68.297	67.938
61	66.299	66.097	64.369	63.898	63.359
62	61.451	61.204	59.813	59.409	58.623
63	56.693	56.312	55.302	54.943	53.978
64	52.070	51.643	50.970	50.633	49.534
65	47.693	47.334	46.863	46.571	45.516
66	43.564	43.339	43.025	42.800	41.768
67	39.905	39.748	39.569	39.344	38.491
68	36.673	36.539	36.471	36.247	35.506
69	33.711	33.688	33.621	33.486	32.813
70	31.040	31.107	31.085	30.973	30.367
71	28.683	28.728	28.728	28.661	28.122
72	26.529	26.574	26.551	26.506	25.968
73	24.486	24.531	24.509	24.464	24.015
74	22.534	22.579	22.556	22.556	22.152
75	20.648	20.671	20.671	20.693	20.289
76	18.763	18.830	18.830	18.853	18.494
77	16.923	16.968	17.012	17.035	16.766
78	15.037	15.037	15.127	15.172	15.015
79	13.062	13.062	13.219	13.287	13.130
80	10.953	10.975	11.110	11.267	11.132
81	8.461	8.641	8.663	8.843	8.708
82	4.848	5.050	5.229	5.274	5.274
83	2.289	2.334	2.536	2.671	2.761
84	2.087	2.087	2.110	2.110	2.042
85	1.908	1.930	1.953	1.953	1.908
86	1.728	1.728	1.728	1.728	1.706
87	1.459	1.481	1.481	1.459	1.436
88	1.145	1.145	1.167	1.145	1.122
89	0.763	0.741	0.763	0.763	0.741
90	0.382	0.426	0.449	0.494	0.449
91	0.382	0.382	0.404	0.404	0.382
92	0.404	0.382	0.404	0.404	0.382
93	0.404	0.382	0.404	0.404	0.404
94	0.426	0.404	0.426	0.426	0.404
95	0.426	0.426	0.426	0.426	0.426
96	0.426	0.426	0.426	0.426	0.426
97	0.449	0.449	0.426	0.449	0.426
98	0.449	0.471	0.449	0.449	0.449
99	0.449	0.471	0.471	0.471	0.449
100	0.494	0.471	0.471	0.494	0.449
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	4765.01	N.A.	69.30
0-30	5996.7	N.A.	87.20
0-40	6636.94	N.A.	96.60
0-60	6800.35	N.A.	98.90
0-80	6869.7	N.A.	99.90
0-90	6873.09	N.A.	100.00
10-90	4020.32	N.A.	58.50
20-40	1871.92	N.A.	27.20
20-50	1960.98	N.A.	28.50
40-70	210.86	N.A.	3.10
60-80	69.35	N.A.	1.00
70-80	21.90	N.A.	0.30
80-90	3.40	N.A.	0.00
90-110	0.49	N.A.	0.00
90-120	0.49	N.A.	0.00
90-130	0.49	N.A.	0.00
90-150	0.49	N.A.	0.00
90-180	0.49	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	6873.59	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2852.77
10-20	1912.24
20-30	1231.68
30-40	640.24
40-50	89.06
50-60	74.36
60-70	47.45
70-80	21.90
80-90	3.40
90-100	0.47
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	115	113	110	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	96	95	94	92
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85
5	100	94	89	86	99	93	89	86	91	88	85	90	87	84	88	86	84	83
6	97	90	86	83	96	90	85	82	88	85	82	87	84	81	86	83	81	80
7	94	87	83	80	93	87	83	80	86	82	79	85	81	79	84	81	78	77
8	91	84	80	77	90	84	80	77	83	79	77	82	79	76	81	78	76	75
9	89	82	78	75	88	82	77	75	81	77	74	80	77	74	79	76	74	73
10	87	80	75	73	86	79	75	73	79	75	72	78	75	72	77	74	72	71

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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

X=2H	Y=2H	10.3	11.3	10.7	11.6	11.9	10.1	11.0	10.4	11.3	11.6
	3H	11.2	12.0	11.6	12.4	12.7	11.0	11.8	11.4	12.1	12.5
	4H	11.5	12.3	11.9	12.6	13.0	11.3	12.1	11.7	12.4	12.8
	6H	11.7	12.4	12.1	12.8	13.2	11.5	12.2	11.9	12.6	13.0
	8H	11.7	12.3	12.1	12.7	13.1	11.5	12.1	11.9	12.5	12.9
	12H	11.6	12.2	12.1	12.6	13.1	11.4	12.1	11.9	12.4	12.9

UGR Viewed Endwise

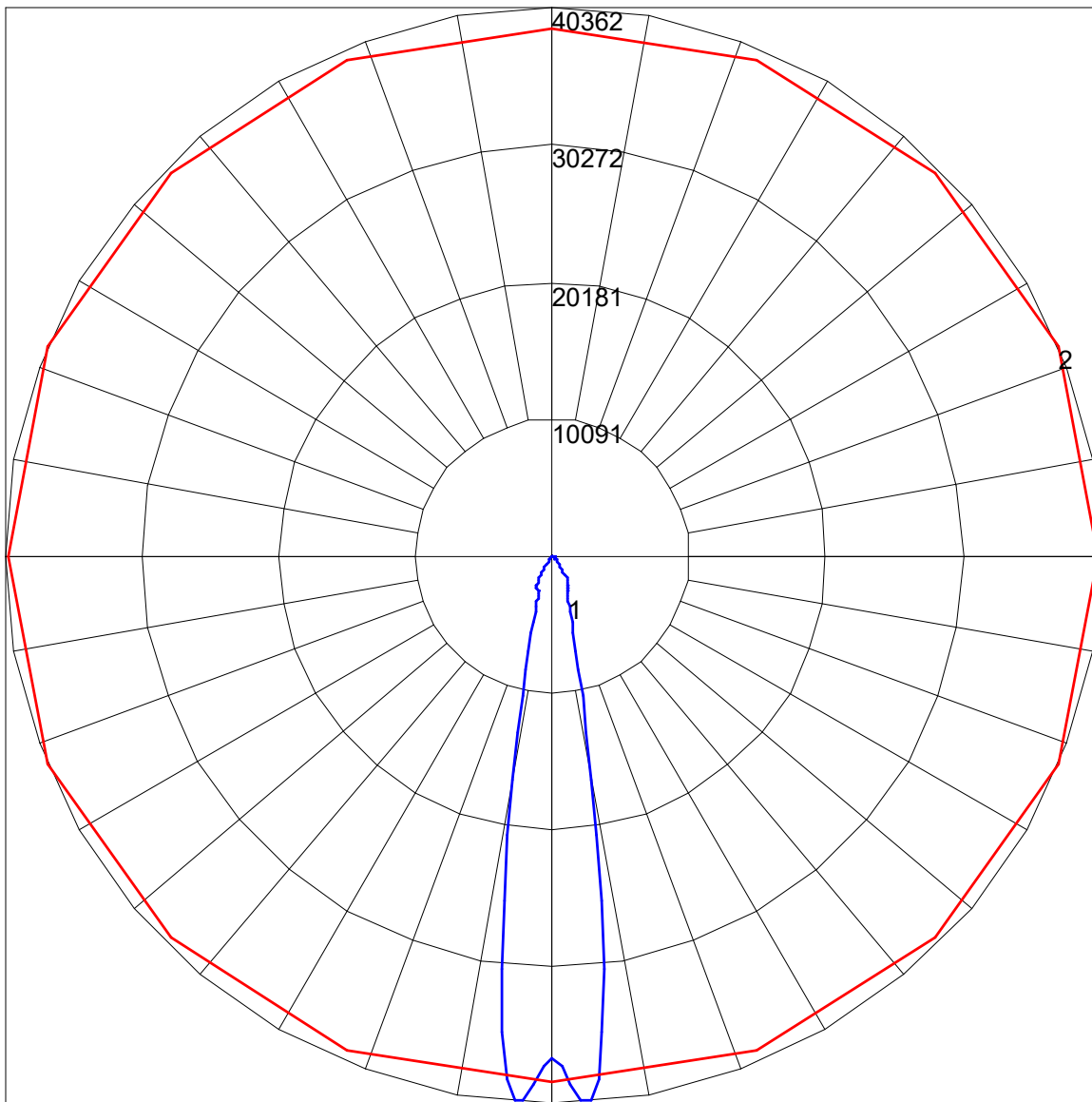
4H	2H	10.5	11.3	11.0	11.7	12.1	10.3	11.1	10.7	11.4	11.8
	3H	11.6	12.2	12.0	12.6	13.0	11.4	12.0	11.8	12.4	12.9
	4H	12.0	12.6	12.5	13.0	13.4	11.9	12.4	12.3	12.8	13.3
	6H	12.3	12.8	12.8	13.2	13.7	12.1	12.6	12.6	13.1	13.5
	8H	12.3	12.7	12.7	13.2	13.6	12.1	12.6	12.6	13.0	13.5
	12H	12.2	12.6	12.7	13.1	13.6	12.1	12.5	12.6	13.0	13.4

8H	4H	12.1	12.5	12.6	13.0	13.4	11.9	12.4	12.4	12.8	13.3
	6H	12.4	12.8	12.9	13.3	13.8	12.3	12.6	12.8	13.2	13.6
	8H	12.4	12.7	13.0	13.3	13.8	12.3	12.6	12.9	13.1	13.6
	12H	12.4	12.7	12.9	13.2	13.7	12.3	12.5	12.8	13.0	13.6

12H	4H	12.0	12.4	12.5	12.9	13.4	11.9	12.3	12.4	12.8	13.2
	6H	12.4	12.7	12.9	13.2	13.7	12.3	12.6	12.8	13.1	13.6
	8H	12.4	12.7	12.9	13.2	13.8	12.3	12.6	12.8	13.1	13.6

Maximum UGR = 13.8

POLAR GRAPH



Maximum Candela = 40362.471 Located At Horizontal Angle = 22.5, Vertical Angle = 4
1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (4) (Through Max. Cd.)