

IES INDOOR REPORT

PHOTOMETRIC FILENAME : W6CR-XX-L70-830-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
[ISSUEDATE] 2025-07-15
[MANUFAC] H.E. WILLIAMS, INC.
[LUMCAT] W6CR-xx-L70-830-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	6943
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
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	7494	7702	7801
55	8504	8267	8102
65	6279	6170	5993
75	4439	4444	4362
85	1218	1246	1218

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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	37524.84337524.84337524.84337524.84337524.843				
1	38098.59038117.08938042.91038008.29337944.518				
2	39406.00039452.36039209.44839075.32938827.422				
3	40576.71040660.38740250.09439989.97139540.709				
4	40644.92540770.15840247.01239928.89839285.780				
5	38987.54739108.79038623.07338293.35337586.571				
6	35594.16835729.60335383.65135128.17534457.535				
7	31010.13331115.23530971.50230841.25930304.285				
8	25887.08026011.81526018.04926097.80425680.233				
9	20985.95121114.37921280.44121475.95221208.349				
10	16762.01416894.86417144.28517403.65917246.507				
11	13310.62213449.00313733.45214001.23713911.030				
12	10628.37610762.99411015.27111273.10411196.274				
13	8606.817 8728.128 8949.846 9171.768 9088.703				
14	7087.617 7264.764 7414.458 7588.636 7475.941				
15	6009.698 6006.162 6214.051 6354.087 6327.041				
16	5053.998 5124.367 5260.572 5370.819 5308.452				
17	4401.266 4457.603 4569.890 4652.570 4598.772				
18	3910.833 3956.356 4043.524 4111.718 4070.706				
19	3551.210 3585.193 3653.024 3708.091 3674.107				
20	3284.627 3313.826 3363.883 3416.683 3374.606				
21	3110.335 3114.099 3163.226 3203.557 3155.223				
22	2965.266 2976.919 2994.693 3035.817 3005.121				
23	2864.133 2873.247 2884.627 2913.306 2882.519				
24	2782.904 2786.622 2793.514 2808.046 2782.383				
25	2714.190 2716.525 2715.165 2720.243 2689.524				
26	2648.717 2646.473 2631.896 2634.979 2598.411				
27	2574.312 2564.315 2541.054 2537.405 2502.129				
28	2479.889 2466.650 2428.608 2416.910 2389.842				
29	2357.219 2340.465 2290.295 2268.894 2246.496				
30	2197.187 2177.532 2121.468 2095.623 2067.693				
31	1996.008 1976.716 1922.420 1898.820 1865.063				
32	1764.134 1748.174 1701.994 1688.527 1658.307				
33	1504.782 1496.508 1467.444 1465.789 1449.806				
34	1236.703 1236.227 1228.723 1244.615 1240.511				
35	976.399 984.447 996.485 1029.607 1033.008				
36	743.572 759.578 787.780 830.899 836.182				
37	550.034 562.457 596.894 644.615 654.998				
38	380.435 400.249 445.318 492.405 502.335				
39	275.629 290.773 322.829 364.566 376.377				
40	192.042 207.708 241.396 267.604 273.521				
41	147.676 158.445 178.644 203.514 204.398				
42	122.580 129.041 140.807 153.684 157.697				
43	108.343 112.015 118.522 126.184 127.227				
44	100.612 102.448 105.894 110.088 109.454				
45	96.191 97.370 98.866 101.179 100.136				
46	93.607 94.536 95.035 96.554 95.420				
47	92.065 92.836 92.745 93.924 92.836				
48	91.158 91.680 91.294 92.179 91.181				
49	90.569 90.909 90.320 90.932 89.934				
50	90.161 90.297 89.503 89.957 88.869				
51	89.912 89.934 88.869 89.118 87.939				
52	89.821 89.685 88.325 88.393 87.168				
53	89.798 89.458 87.871 87.780 86.466				

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CANDELA TABULATION - (Cont.)

54	89.662	89.118	87.327	87.010	85.627
55	88.551	87.962	86.080	85.627	84.357
56	86.466	85.853	83.881	83.292	82.340
57	83.564	83.156	81.002	80.413	79.574
58	80.231	79.891	77.692	77.035	76.559
59	76.218	75.992	73.793	73.203	72.841
60	71.707	71.548	69.531	68.987	68.624
61	66.969	66.765	65.019	64.543	63.999
62	62.072	61.823	60.417	60.009	59.216
63	57.266	56.880	55.860	55.498	54.523
64	52.596	52.165	51.485	51.145	50.034
65	48.175	47.812	47.336	47.041	45.976
66	44.004	43.777	43.460	43.233	42.190
67	40.308	40.150	39.968	39.742	38.880
68	37.044	36.908	36.840	36.613	35.865
69	34.051	34.029	33.961	33.825	33.144
70	31.353	31.421	31.399	31.285	30.673
71	28.973	29.018	29.018	28.950	28.406
72	26.797	26.842	26.819	26.774	26.230
73	24.734	24.779	24.756	24.711	24.258
74	22.761	22.807	22.784	22.784	22.376
75	20.857	20.880	20.880	20.902	20.494
76	18.953	19.021	19.021	19.043	18.681
77	17.094	17.139	17.184	17.207	16.935
78	15.189	15.189	15.280	15.325	15.167
79	13.194	13.194	13.353	13.421	13.262
80	11.063	11.086	11.222	11.381	11.245
81	8.547	8.728	8.751	8.932	8.796
82	4.897	5.101	5.282	5.328	5.328
83	2.312	2.358	2.562	2.698	2.788
84	2.108	2.108	2.131	2.131	2.063
85	1.927	1.950	1.972	1.972	1.927
86	1.746	1.746	1.746	1.746	1.723
87	1.474	1.496	1.496	1.474	1.451
88	1.156	1.156	1.179	1.156	1.134
89	0.771	0.748	0.771	0.771	0.748
90	0.385	0.431	0.453	0.499	0.453
91	0.385	0.385	0.408	0.408	0.385
92	0.408	0.385	0.408	0.408	0.385
93	0.408	0.385	0.408	0.408	0.408
94	0.431	0.408	0.431	0.431	0.408
95	0.431	0.431	0.431	0.431	0.431
96	0.431	0.431	0.431	0.431	0.431
97	0.453	0.453	0.431	0.453	0.431
98	0.453	0.476	0.453	0.453	0.453
99	0.453	0.476	0.476	0.476	0.453
100	0.499	0.476	0.476	0.499	0.453
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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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	4813.14	N.A.	69.30
0-30	6057.27	N.A.	87.20
0-40	6703.98	N.A.	96.60
0-60	6869.04	N.A.	98.90
0-80	6939.08	N.A.	99.90
0-90	6942.52	N.A.	100.00
10-90	4060.93	N.A.	58.50
20-40	1890.83	N.A.	27.20
20-50	1980.79	N.A.	28.50
40-70	212.99	N.A.	3.10
60-80	70.05	N.A.	1.00
70-80	22.12	N.A.	0.30
80-90	3.43	N.A.	0.00
90-110	0.50	N.A.	0.00
90-120	0.50	N.A.	0.00
90-130	0.50	N.A.	0.00
90-150	0.50	N.A.	0.00
90-180	0.50	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	6943.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2881.58
10-20	1931.56
20-30	1244.13
30-40	646.71
40-50	89.96
50-60	75.11
60-70	47.93
70-80	22.12
80-90	3.43
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	111	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	83	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	75	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

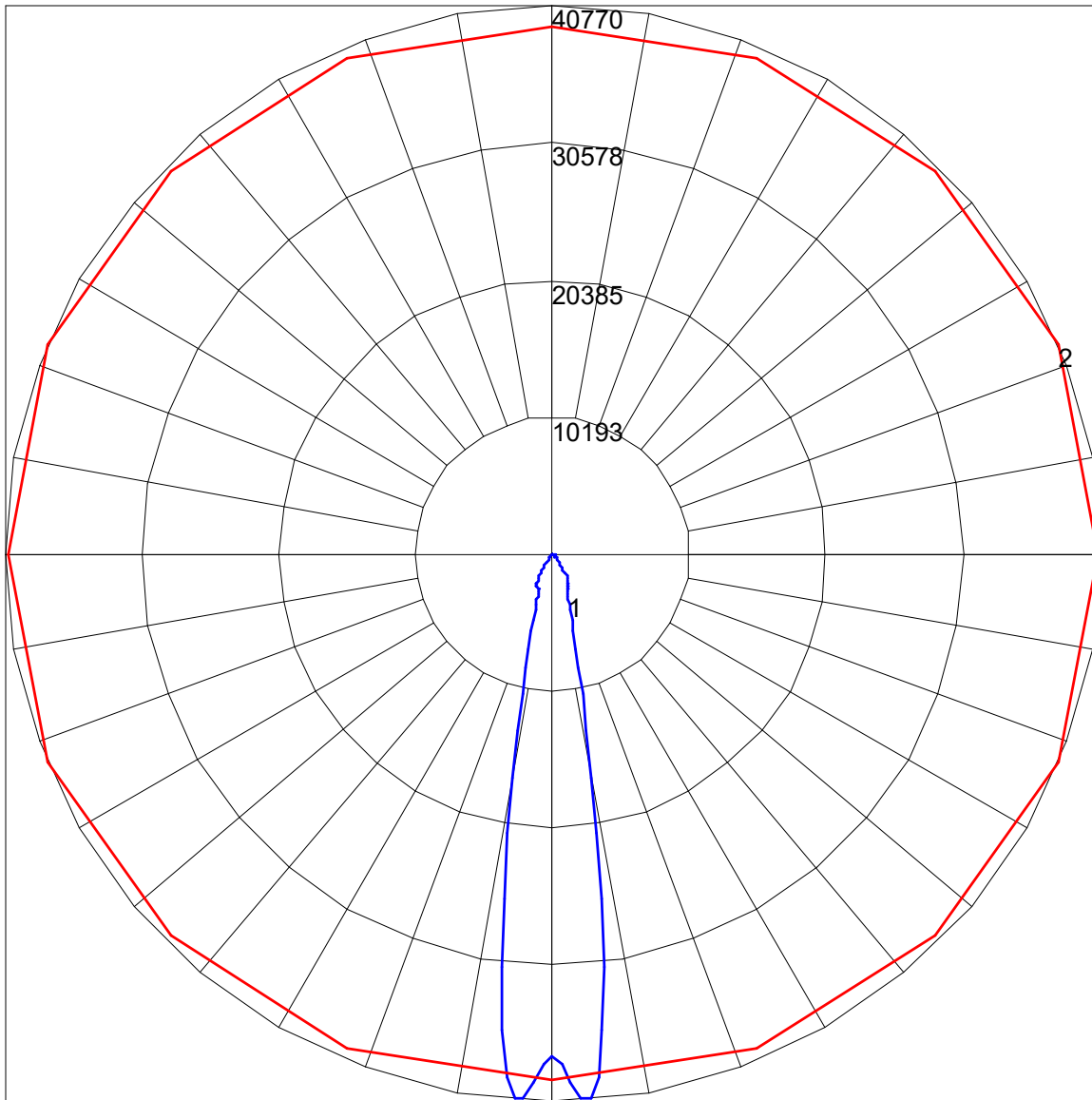
X=2H	Y=2H	10.4	11.4	10.8	11.7	12.0	10.2	11.1	10.5	11.4	11.7
	3H	11.3	12.1	11.7	12.5	12.8	11.1	11.9	11.5	12.2	12.6
	4H	11.6	12.4	12.0	12.7	13.1	11.4	12.2	11.8	12.5	12.9
	6H	11.8	12.5	12.2	12.9	13.3	11.6	12.3	12.0	12.7	13.1
	8H	11.8	12.4	12.2	12.8	13.2	11.6	12.2	12.0	12.6	13.0
	12H	11.7	12.3	12.2	12.7	13.2	11.5	12.2	12.0	12.5	13.0

UGR Viewed Endwise

4H	2H	10.6	11.4	11.1	11.8	12.2	10.4	11.2	10.8	11.5	11.9
	3H	11.7	12.3	12.1	12.7	13.1	11.5	12.1	11.9	12.5	13.0
	4H	12.1	12.7	12.6	13.1	13.5	12.0	12.5	12.4	12.9	13.4
	6H	12.4	12.9	12.9	13.3	13.8	12.2	12.7	12.7	13.2	13.6
	8H	12.4	12.8	12.8	13.3	13.7	12.2	12.7	12.7	13.1	13.6
	12H	12.3	12.7	12.8	13.2	13.7	12.2	12.6	12.7	13.1	13.5
8H	4H	12.2	12.6	12.7	13.1	13.5	12.0	12.5	12.5	12.9	13.4
	6H	12.5	12.9	13.0	13.4	13.9	12.4	12.7	12.9	13.3	13.7
	8H	12.5	12.8	13.1	13.4	13.9	12.4	12.7	13.0	13.2	13.7
	12H	12.5	12.8	13.0	13.2	13.8	12.4	12.6	12.9	13.1	13.7
12H	4H	12.1	12.5	12.6	13.0	13.5	12.0	12.4	12.5	12.9	13.3
	6H	12.5	12.8	13.0	13.3	13.8	12.4	12.7	12.9	13.2	13.7
	8H	12.5	12.8	13.0	13.3	13.9	12.4	12.7	12.9	13.2	13.7

Maximum UGR = 13.9

POLAR GRAPH



Maximum Candela = 40770.158 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.)