

IES INDOOR REPORT

PHOTOMETRIC FILENAME : W6CR-XX-L60-927-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-L60-927-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	5204
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	53.6
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	20271	20270	19855
55	12120	11918	11569
65	7185	7074	6889
75	4736	4683	4607
85	1161	1161	1149

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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	12889.561	12889.561	12889.561	12889.561	12889.561
1	12831.766	12836.633	12845.439	12856.479	12858.637
2	12668.645	12686.539	12722.861	12762.836	12774.709
3	12402.885	12439.054	12517.888	12604.050	12628.650
4	12039.771	12096.979	12227.132	12352.532	12389.686
5	11584.624	11658.743	11828.133	11987.051	12028.788
6	11046.554	11132.413	11320.664	11502.609	11545.975
7	10443.510	10532.097	10729.304	10908.125	10954.710
8	9783.277	9872.754	10060.229	10237.913	10274.366
9	9098.181	9185.688	9358.847	9524.922	9563.307
10	8423.291	8498.735	8659.812	8808.353	8849.938
11	7762.263	7824.035	7970.057	8102.899	8140.716
12	7131.970	7185.144	7315.941	7435.338	7462.967
13	6554.131	6596.720	6710.379	6819.361	6835.343
14	6018.219	6062.096	6157.329	6259.834	6257.694
15	5546.010	5573.563	5664.555	5739.658	5744.468
16	5099.669	5129.571	5218.479	5286.519	5301.649
17	4716.729	4746.497	4818.325	4872.863	4889.054
18	4387.531	4411.694	4476.060	4519.028	4536.848
19	4102.456	4124.896	4179.453	4214.429	4231.605
20	3861.333	3881.122	3924.601	3958.574	3963.157
21	3653.653	3668.935	3703.476	3735.896	3735.346
22	3476.423	3485.361	3512.157	3541.395	3548.080
23	3325.137	3326.728	3349.073	3368.767	3379.940
24	3185.686	3184.777	3203.846	3215.114	3228.881
25	3060.760	3057.844	3068.221	3073.845	3082.745
26	2940.719	2934.659	2936.212	2938.750	2941.174
27	2819.561	2807.669	2801.382	2798.579	2800.397
28	2686.019	2671.116	2653.675	2655.000	2653.315
29	2530.812	2517.651	2488.243	2477.941	2478.793
30	2366.119	2341.407	2305.729	2284.975	2292.379
31	2161.734	2139.369	2104.658	2084.661	2077.465
32	1933.602	1915.574	1884.631	1869.406	1861.718
33	1687.120	1674.508	1656.026	1649.985	1649.341
34	1435.487	1429.617	1426.625	1435.165	1444.615
35	1192.869	1194.365	1204.458	1228.584	1244.547
36	974.224	979.034	1002.894	1034.065	1050.540
37	782.659	792.525	822.313	857.782	869.598
38	627.036	648.037	670.193	704.810	711.324
39	520.460	534.909	554.092	582.042	583.198
40	427.802	438.331	462.551	482.529	490.691
41	371.143	378.415	391.784	403.771	407.407
42	332.038	335.769	343.363	349.498	350.937
43	302.724	304.561	307.970	310.128	309.049
44	279.754	280.189	281.610	280.568	279.508
45	260.211	260.533	260.192	258.223	254.871
46	242.922	242.600	241.274	238.509	236.029
47	226.617	226.219	224.326	221.523	219.156
48	211.373	210.937	208.873	205.919	203.666
49	196.943	196.432	194.387	191.470	189.274
50	183.176	182.608	180.695	177.836	175.810
51	170.318	169.693	167.818	165.167	163.217
52	158.104	157.535	155.699	153.275	151.362
53	146.779	146.211	144.545	142.253	140.379

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PHOTOMETRIC FILENAME : W6CR-XX-L60-927-XXX-DIM-UNV-N-XXX_.IES

CANDELA TABULATION - (Cont.)

54	136.250	135.663	134.054	131.876	130.077
55	126.195	125.608	124.093	121.991	120.457
56	116.329	115.780	114.378	112.504	111.083
57	106.993	106.520	105.175	103.490	102.240
58	98.472	98.017	96.843	95.233	94.192
59	90.518	90.082	89.079	87.602	86.655
60	83.246	82.868	81.902	80.652	79.762
61	76.599	76.221	75.369	74.194	73.323
62	70.540	70.123	69.366	68.381	67.529
63	64.915	64.612	63.893	63.041	62.226
64	59.765	59.462	58.856	58.060	57.360
65	55.125	54.765	54.273	53.534	52.853
66	50.694	50.410	49.936	49.312	48.687
67	46.641	46.376	45.979	45.429	44.880
68	42.968	42.684	42.343	41.831	41.339
69	39.408	39.237	38.877	38.461	37.968
70	36.169	35.961	35.677	35.298	34.863
71	33.102	32.893	32.666	32.325	31.946
72	30.242	30.015	29.826	29.504	29.201
73	27.458	27.269	27.099	26.833	26.568
74	24.807	24.656	24.485	24.277	24.031
75	22.251	22.137	22.005	21.853	21.645
76	19.751	19.675	19.581	19.448	19.297
77	17.327	17.289	17.233	17.176	17.043
78	14.941	14.903	14.922	14.884	14.828
79	12.574	12.574	12.631	12.688	12.612
80	10.226	10.245	10.302	10.453	10.377
81	7.726	7.802	7.840	7.972	7.897
82	4.469	4.583	4.734	4.753	4.810
83	2.197	2.216	2.405	2.519	2.708
84	2.007	1.988	1.988	2.007	1.988
85	1.837	1.856	1.837	1.837	1.818
86	1.648	1.648	1.648	1.648	1.629
87	1.401	1.401	1.401	1.401	1.382
88	1.098	1.098	1.079	1.079	1.079
89	0.720	0.720	0.720	0.720	0.720
90	0.379	0.417	0.436	0.454	0.473
91	0.379	0.379	0.379	0.379	0.360
92	0.379	0.398	0.398	0.379	0.379
93	0.398	0.398	0.398	0.398	0.379
94	0.398	0.398	0.398	0.398	0.398
95	0.417	0.417	0.417	0.398	0.398
96	0.436	0.436	0.436	0.417	0.417
97	0.436	0.454	0.454	0.436	0.436
98	0.473	0.473	0.473	0.454	0.454
99	0.511	0.492	0.492	0.492	0.492
100	0.511	0.492	0.492	0.492	0.511
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-L60-927-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

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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	2615.23	N.A.	50.30
0-30	4021.9	N.A.	77.30
0-40	4798.07	N.A.	92.20
0-60	5121.72	N.A.	98.40
0-80	5200.16	N.A.	99.90
0-90	5203.31	N.A.	100.00
10-90	4180.61	N.A.	80.30
20-40	2182.84	N.A.	41.90
20-50	2394.36	N.A.	46.00
40-70	378.58	N.A.	7.30
60-80	78.44	N.A.	1.50
70-80	23.50	N.A.	0.50
80-90	3.15	N.A.	0.10
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	5203.8	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1022.7
10-20	1592.53
20-30	1406.66
30-40	776.17
40-50	211.52
50-60	112.12
60-70	54.94
70-80	23.50
80-90	3.15
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	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

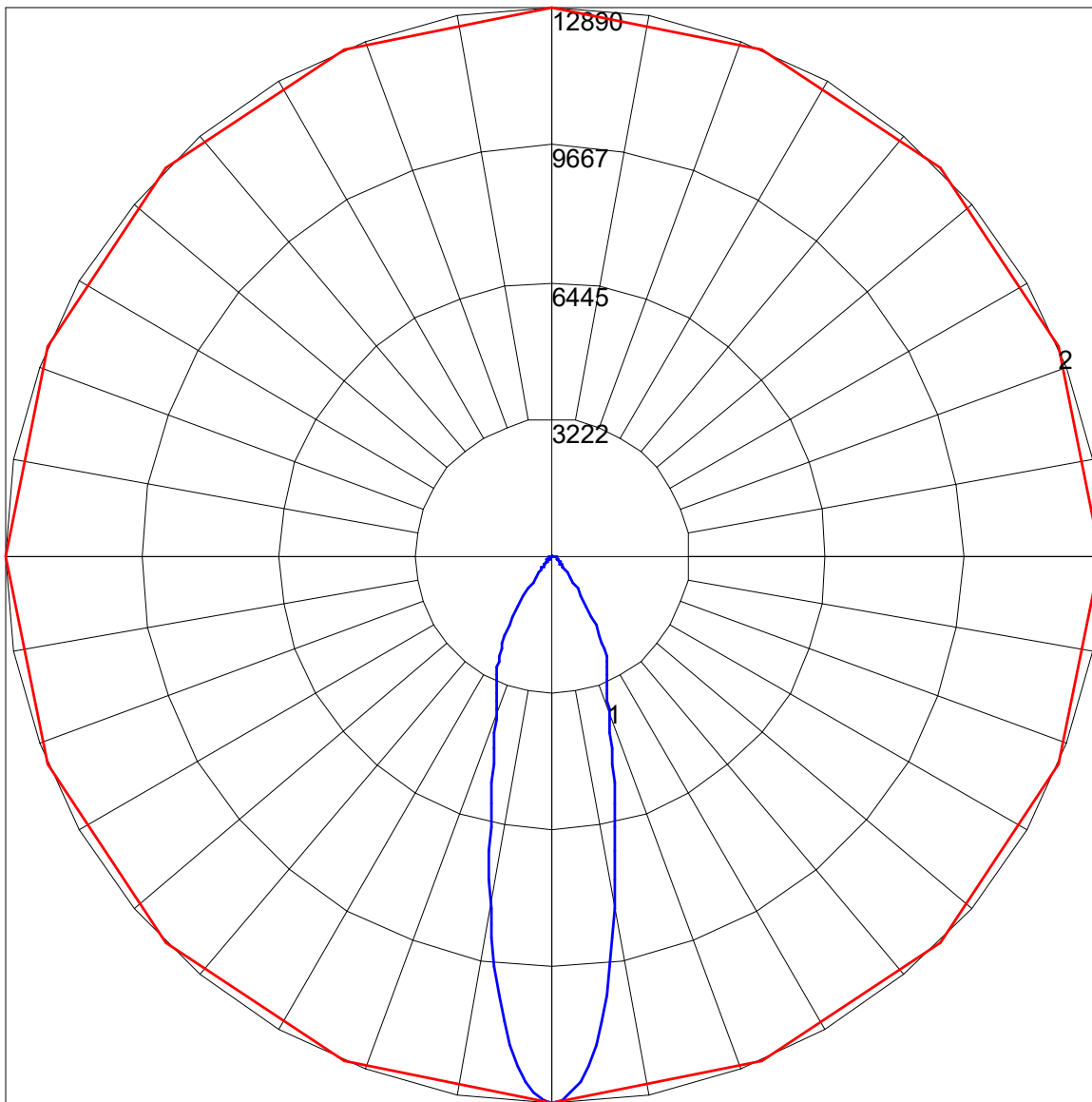
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PHOTOMETRIC FILENAME : W6CR-XX-L60-927-XXX-DIM-UNV-N-XXX_.IES

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					UGR Viewed Endwise				
X=2H	Y=2H	12.9	13.9	13.2	14.2	14.5	12.7	13.6	13.0	14.0	14.3
	3H	13.6	14.5	14.0	14.8	15.2	13.4	14.3	13.8	14.6	15.0
	4H	13.9	14.7	14.3	15.0	15.4	13.6	14.4	14.0	14.8	15.2
	6H	14.0	14.7	14.4	15.1	15.4	13.8	14.5	14.2	14.9	15.2
	8H	13.9	14.6	14.3	15.0	15.4	13.7	14.4	14.1	14.8	15.2
	12H	13.9	14.5	14.3	14.9	15.3	13.7	14.3	14.1	14.7	15.1
4H	2H	13.0	13.8	13.4	14.2	14.6	12.8	13.6	13.2	14.0	14.4
	3H	14.0	14.6	14.4	15.0	15.4	13.8	14.4	14.2	14.8	15.2
	4H	14.3	14.8	14.7	15.3	15.7	14.1	14.7	14.5	15.1	15.5
	6H	14.4	14.9	14.9	15.4	15.8	14.3	14.7	14.7	15.2	15.7
	8H	14.4	14.8	14.9	15.3	15.8	14.2	14.7	14.7	15.1	15.6
	12H	14.3	14.7	14.8	15.2	15.7	14.2	14.6	14.7	15.1	15.5
8H	4H	14.3	14.7	14.8	15.2	15.7	14.1	14.6	14.6	15.0	15.5
	6H	14.5	14.8	15.0	15.4	15.8	14.3	14.7	14.8	15.2	15.7
	8H	14.5	14.8	15.0	15.3	15.8	14.3	14.6	14.8	15.2	15.7
	12H	14.4	14.7	14.9	15.2	15.8	14.3	14.5	14.8	15.0	15.6
12H	4H	14.2	14.6	14.7	15.1	15.6	14.1	14.5	14.6	15.0	15.4
	6H	14.4	14.8	15.0	15.2	15.8	14.3	14.6	14.8	15.1	15.6
	8H	14.4	14.7	15.0	15.2	15.8	14.3	14.6	14.8	15.1	15.6

Maximum UGR = 15.8

POLAR GRAPH



Maximum Candela = 12889.561 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.)