

IES INDOOR REPORT

PHOTOMETRIC FILENAME : W6CR-XX-L60-830-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-L60-830-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	5536
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
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	21565	21564	21123
55	12893	12678	12307
65	7644	7526	7329
75	5038	4982	4901
85	1235	1235	1222

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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	13712.296	13712.296	13712.296	13712.296	13712.296
1	13650.812	13655.990	13665.358	13677.103	13679.398
2	13477.279	13496.316	13534.955	13577.482	13590.114
3	13194.555	13233.034	13316.899	13408.562	13434.731
4	12808.264	12869.124	13007.584	13140.989	13180.514
5	12324.066	12402.916	12583.118	12752.179	12796.580
6	11751.650	11842.990	12043.257	12236.816	12282.949
7	11110.115	11204.356	11414.151	11604.386	11653.944
8	10407.740	10502.928	10702.369	10891.395	10930.175
9	9678.914	9772.007	9956.218	10132.894	10173.729
10	8960.946	9041.206	9212.564	9370.586	9414.825
11	8257.725	8323.440	8478.782	8620.104	8660.334
12	7587.200	7643.769	7782.915	7909.932	7939.325
13	6972.479	7017.786	7138.700	7254.638	7271.640
14	6402.360	6449.037	6550.349	6659.396	6657.120
15	5900.010	5929.322	6026.121	6106.018	6111.135
16	5425.179	5456.989	5551.572	5623.955	5640.051
17	5017.796	5049.464	5125.876	5183.896	5201.120
18	4667.585	4693.291	4761.765	4807.476	4826.433
19	4364.314	4388.186	4446.226	4483.435	4501.707
20	4107.801	4128.853	4175.107	4211.248	4216.123
21	3886.864	3903.121	3939.867	3974.356	3973.772
22	3698.322	3707.831	3736.337	3767.441	3774.553
23	3537.379	3539.071	3562.843	3583.794	3595.680
24	3389.027	3388.060	3408.347	3420.333	3434.979
25	3256.127	3253.024	3264.064	3270.047	3279.516
26	3128.424	3121.977	3123.629	3126.329	3128.908
27	2999.533	2986.881	2980.193	2977.211	2979.146
28	2857.466	2841.612	2823.058	2824.468	2822.675
29	2692.353	2678.352	2647.066	2636.107	2637.013
30	2517.147	2490.857	2452.903	2430.824	2438.701
31	2299.716	2275.924	2238.998	2217.724	2210.069
32	2057.023	2037.844	2004.926	1988.729	1980.550
33	1794.808	1781.391	1761.729	1755.303	1754.618
34	1527.114	1520.869	1517.686	1526.771	1536.824
35	1269.009	1270.601	1281.338	1307.004	1323.986
36	1036.408	1041.525	1066.909	1100.068	1117.595
37	832.616	843.112	874.801	912.533	925.104
38	667.060	689.401	712.971	749.798	756.728
39	553.681	569.052	589.459	619.194	620.423
40	455.108	466.309	492.075	513.329	522.012
41	394.833	402.569	416.791	429.544	433.412
42	353.232	357.201	365.279	371.806	373.338
43	322.047	324.001	327.627	329.924	328.776
44	297.610	298.074	299.585	298.477	297.348
45	276.820	277.163	276.800	274.705	271.139
46	258.427	258.085	256.675	253.733	251.094
47	241.082	240.659	238.644	235.663	233.145
48	224.865	224.401	222.206	219.063	216.665
49	209.514	208.970	206.794	203.692	201.355
50	194.868	194.264	192.229	189.187	187.031
51	181.189	180.524	178.530	175.710	173.635
52	168.195	167.591	165.637	163.058	161.023
53	156.148	155.544	153.771	151.333	149.339

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CANDELA TABULATION - (Cont.)

54	144.947	144.323	142.610	140.294	138.380
55	134.250	133.625	132.014	129.778	128.146
56	123.754	123.170	121.679	119.685	118.174
57	113.822	113.319	111.888	110.095	108.766
58	104.757	104.273	103.024	101.312	100.204
59	96.296	95.832	94.765	93.193	92.186
60	88.560	88.157	87.130	85.800	84.853
61	81.489	81.086	80.179	78.930	78.004
62	75.042	74.599	73.793	72.746	71.839
63	69.059	68.737	67.971	67.065	66.198
64	63.579	63.257	62.612	61.766	61.021
65	58.644	58.261	57.737	56.951	56.226
66	53.930	53.627	53.124	52.459	51.794
67	49.619	49.336	48.913	48.329	47.745
68	45.710	45.408	45.045	44.502	43.978
69	41.923	41.742	41.359	40.916	40.392
70	38.478	38.256	37.954	37.551	37.088
71	35.214	34.993	34.751	34.388	33.986
72	32.172	31.931	31.729	31.387	31.064
73	29.211	29.010	28.828	28.546	28.264
74	26.391	26.230	26.048	25.827	25.565
75	23.671	23.550	23.409	23.248	23.026
76	21.012	20.931	20.831	20.689	20.528
77	18.433	18.393	18.332	18.272	18.131
78	15.895	15.855	15.875	15.834	15.774
79	13.377	13.377	13.437	13.498	13.417
80	10.879	10.899	10.959	11.120	11.040
81	8.219	8.300	8.340	8.481	8.401
82	4.754	4.875	5.036	5.057	5.117
83	2.337	2.357	2.558	2.679	2.881
84	2.135	2.115	2.115	2.135	2.115
85	1.954	1.974	1.954	1.954	1.934
86	1.753	1.753	1.753	1.753	1.733
87	1.491	1.491	1.491	1.491	1.471
88	1.168	1.168	1.148	1.148	1.148
89	0.766	0.766	0.766	0.766	0.766
90	0.403	0.443	0.463	0.483	0.504
91	0.403	0.403	0.403	0.403	0.383
92	0.403	0.423	0.423	0.403	0.403
93	0.423	0.423	0.423	0.423	0.403
94	0.423	0.423	0.423	0.423	0.423
95	0.443	0.443	0.443	0.423	0.423
96	0.463	0.463	0.463	0.443	0.443
97	0.463	0.483	0.483	0.463	0.463
98	0.504	0.504	0.504	0.483	0.483
99	0.544	0.524	0.524	0.524	0.524
100	0.544	0.524	0.524	0.524	0.544
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	2782.16	N.A.	50.30
0-30	4278.61	N.A.	77.30
0-40	5104.33	N.A.	92.20
0-60	5448.63	N.A.	98.40
0-80	5532.08	N.A.	99.90
0-90	5535.43	N.A.	100.00
10-90	4447.45	N.A.	80.30
20-40	2322.17	N.A.	41.90
20-50	2547.19	N.A.	46.00
40-70	402.75	N.A.	7.30
60-80	83.45	N.A.	1.50
70-80	25.00	N.A.	0.50
80-90	3.35	N.A.	0.10
90-110	0.52	N.A.	0.00
90-120	0.52	N.A.	0.00
90-130	0.52	N.A.	0.00
90-150	0.52	N.A.	0.00
90-180	0.52	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	5535.96	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1087.98
10-20	1694.18
20-30	1496.45
30-40	825.72
40-50	225.02
50-60	119.28
60-70	58.44
70-80	25.00
80-90	3.35
90-100	0.49
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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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	13.1	14.1	13.4	14.4	14.7	12.9	13.8	13.2	14.2	14.5
	3H	13.8	14.7	14.2	15.0	15.4	13.6	14.5	14.0	14.8	15.2
	4H	14.1	14.9	14.5	15.2	15.6	13.8	14.6	14.2	15.0	15.4
	6H	14.2	14.9	14.6	15.3	15.6	14.0	14.7	14.4	15.1	15.4
	8H	14.1	14.8	14.5	15.2	15.6	13.9	14.6	14.3	15.0	15.4
	12H	14.1	14.7	14.5	15.1	15.5	13.9	14.5	14.3	14.9	15.3

UGR Viewed Endwise

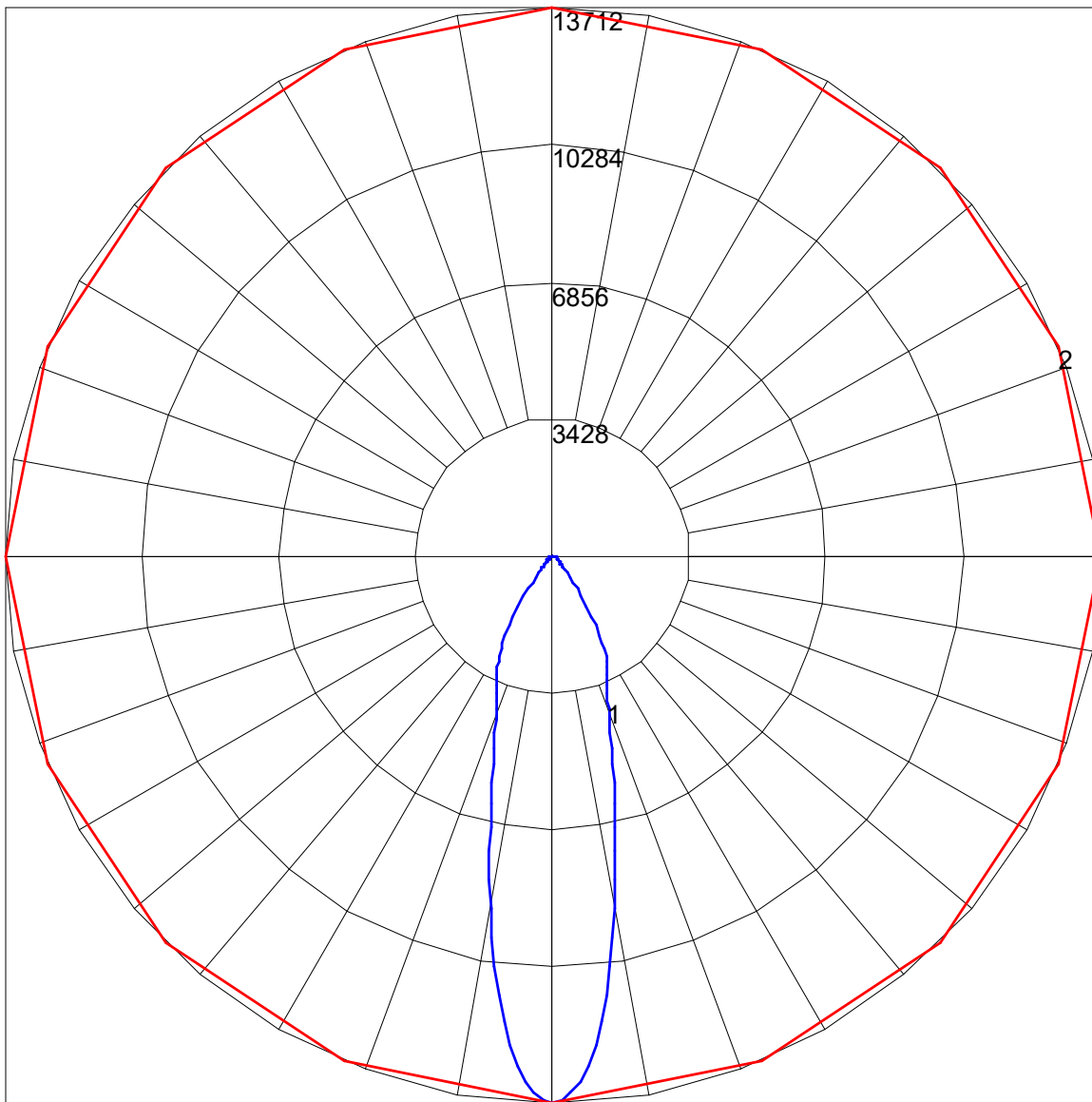
4H	2H	13.2	14.0	13.6	14.4	14.8	13.0	13.8	13.4	14.2	14.6
	3H	14.2	14.8	14.6	15.2	15.6	14.0	14.6	14.4	15.0	15.4
	4H	14.5	15.0	14.9	15.5	15.9	14.3	14.9	14.7	15.3	15.7
	6H	14.6	15.1	15.1	15.6	16.0	14.5	14.9	14.9	15.4	15.9
	8H	14.6	15.0	15.1	15.5	16.0	14.4	14.9	14.9	15.3	15.8
	12H	14.5	14.9	15.0	15.4	15.9	14.4	14.8	14.9	15.3	15.7

8H	4H	14.5	14.9	15.0	15.4	15.9	14.3	14.8	14.8	15.2	15.7
	6H	14.7	15.0	15.2	15.6	16.0	14.5	14.9	15.0	15.4	15.9
	8H	14.7	15.0	15.2	15.5	16.0	14.5	14.8	15.0	15.4	15.9
	12H	14.6	14.9	15.1	15.4	16.0	14.5	14.7	15.0	15.2	15.8

12H	4H	14.4	14.8	14.9	15.3	15.8	14.3	14.7	14.8	15.2	15.6
	6H	14.6	15.0	15.2	15.4	16.0	14.5	14.8	15.0	15.3	15.8
	8H	14.6	14.9	15.2	15.4	16.0	14.5	14.8	15.0	15.3	15.8

Maximum UGR = 16.0

POLAR GRAPH



Maximum Candela = 13712.296 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.)