

IES INDOOR REPORT

PHOTOMETRIC FILENAME : W6CR-XX-L70-927-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-L70-927-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	5823
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	91
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	22684	22683	22219
55	13562	13336	12946
65	8041	7916	7709
75	5299	5241	5155
85	1299	1299	1286

IES INDOOR REPORT
 PHOTOMETRIC FILENAME : W6CR-XX-L70-927-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	14423.922	14423.922	14423.922	14423.922	14423.922
1	14359.247	14364.693	14374.547	14386.901	14389.317
2	14176.708	14196.733	14237.377	14282.111	14295.398
3	13879.312	13919.787	14008.005	14104.424	14131.952
4	13472.973	13536.991	13682.637	13822.965	13864.542
5	12963.646	13046.588	13236.143	13413.978	13460.683
6	12361.524	12457.604	12668.265	12871.869	12920.396
7	11686.695	11785.827	12006.510	12206.618	12258.748
8	10947.869	11047.997	11257.788	11456.624	11497.417
9	10181.220	10279.144	10472.914	10658.759	10701.714
10	9425.992	9510.416	9690.668	9856.890	9903.426
11	8686.275	8755.400	8918.804	9067.460	9109.778
12	7980.952	8040.457	8186.824	8320.433	8351.351
13	7334.329	7381.987	7509.176	7631.131	7649.016
14	6734.622	6783.722	6890.291	7004.998	7002.604
15	6206.202	6237.035	6338.858	6422.902	6428.284
16	5706.729	5740.190	5839.681	5915.821	5932.752
17	5278.203	5311.516	5391.893	5452.924	5471.042
18	4909.818	4936.858	5008.886	5056.969	5076.910
19	4590.808	4615.919	4676.971	4716.111	4735.331
20	4320.983	4343.127	4391.782	4429.798	4434.927
21	4088.580	4105.681	4144.334	4180.613	4179.998
22	3890.253	3900.255	3930.241	3962.960	3970.440
23	3720.958	3722.738	3747.743	3769.782	3782.285
24	3564.907	3563.890	3585.229	3597.838	3613.244
25	3425.110	3421.846	3433.459	3439.753	3449.712
26	3290.780	3283.998	3285.736	3288.576	3291.288
27	3155.199	3141.891	3134.856	3131.719	3133.754
28	3005.760	2989.083	2969.565	2971.049	2969.163
29	2832.078	2817.350	2784.440	2772.913	2773.866
30	2647.779	2620.125	2580.201	2556.976	2565.262
31	2419.065	2394.038	2355.195	2332.817	2324.764
32	2163.776	2143.602	2108.976	2091.938	2083.335
33	1887.953	1873.840	1853.157	1846.397	1845.677
34	1606.366	1599.797	1596.449	1606.006	1616.580
35	1334.867	1336.541	1347.836	1374.833	1392.697
36	1090.195	1095.577	1122.278	1157.159	1175.595
37	875.826	886.867	920.200	959.891	973.114
38	701.678	725.179	749.972	788.710	795.999
39	582.415	598.584	620.050	651.328	652.621
40	478.727	490.509	517.613	539.969	549.103
41	415.323	423.461	438.422	451.836	455.904
42	371.564	375.739	384.236	391.102	392.713
43	338.760	340.816	344.630	347.046	345.838
44	313.055	313.543	315.132	313.967	312.780
45	291.186	291.546	291.165	288.961	285.210
46	271.839	271.479	269.995	266.901	264.125
47	253.593	253.148	251.029	247.893	245.244
48	236.535	236.047	233.737	230.431	227.910
49	220.387	219.815	217.526	214.263	211.805
50	204.981	204.345	202.205	199.005	196.738
51	190.592	189.893	187.795	184.828	182.646
52	176.924	176.288	174.233	171.520	169.380
53	164.252	163.616	161.751	159.187	157.089

IES INDOOR REPORT

PHOTOMETRIC FILENAME : W6CR-XX-L70-927-RDB-XXX-DIM-UNV-N-XXX_.IES

CANDELA TABULATION - (Cont.)

54	152.470	151.813	150.011	147.574	145.561
55	141.217	140.560	138.865	136.513	134.796
56	130.177	129.562	127.994	125.896	124.307
57	119.729	119.200	117.695	115.809	114.410
58	110.193	109.685	108.371	106.570	105.404
59	101.293	100.806	99.683	98.030	96.970
60	93.156	92.732	91.651	90.253	89.257
61	85.718	85.294	84.340	83.027	82.052
62	78.937	78.470	77.623	76.521	75.567
63	72.643	72.304	71.499	70.545	69.634
64	66.879	66.540	65.862	64.972	64.188
65	61.687	61.285	60.734	59.907	59.144
66	56.728	56.411	55.881	55.181	54.482
67	52.194	51.897	51.452	50.837	50.223
68	48.082	47.765	47.383	46.811	46.260
69	44.099	43.908	43.505	43.039	42.488
70	40.475	40.242	39.924	39.500	39.013
71	37.042	36.809	36.555	36.173	35.749
72	33.842	33.588	33.376	33.016	32.677
73	30.727	30.515	30.324	30.028	29.731
74	27.760	27.591	27.400	27.167	26.891
75	24.899	24.772	24.624	24.454	24.221
76	22.102	22.018	21.912	21.763	21.594
77	19.390	19.347	19.284	19.220	19.072
78	16.720	16.677	16.699	16.656	16.593
79	14.071	14.071	14.134	14.198	14.113
80	11.443	11.464	11.528	11.697	11.613
81	8.646	8.731	8.773	8.921	8.837
82	5.001	5.128	5.298	5.319	5.383
83	2.458	2.479	2.691	2.818	3.030
84	2.246	2.225	2.225	2.246	2.225
85	2.056	2.077	2.056	2.056	2.034
86	1.844	1.844	1.844	1.844	1.822
87	1.568	1.568	1.568	1.568	1.547
88	1.229	1.229	1.208	1.208	1.208
89	0.805	0.805	0.805	0.805	0.805
90	0.424	0.466	0.487	0.509	0.530
91	0.424	0.424	0.424	0.424	0.403
92	0.424	0.445	0.445	0.424	0.424
93	0.445	0.445	0.445	0.445	0.424
94	0.445	0.445	0.445	0.445	0.445
95	0.466	0.466	0.466	0.445	0.445
96	0.487	0.487	0.487	0.466	0.466
97	0.487	0.509	0.509	0.487	0.487
98	0.530	0.530	0.530	0.509	0.509
99	0.572	0.551	0.551	0.551	0.551
100	0.572	0.551	0.551	0.551	0.572
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-L70-927-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-L70-927-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-L70-927-RDB-XXX-DIM-UNV-N-XXX_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2926.55	N.A.	50.30
0-30	4500.66	N.A.	77.30
0-40	5369.23	N.A.	92.20
0-60	5731.4	N.A.	98.40
0-80	5819.18	N.A.	99.90
0-90	5822.71	N.A.	100.00
10-90	4678.26	N.A.	80.30
20-40	2442.68	N.A.	41.90
20-50	2679.38	N.A.	46.00
40-70	423.65	N.A.	7.30
60-80	87.78	N.A.	1.50
70-80	26.30	N.A.	0.50
80-90	3.53	N.A.	0.10
90-110	0.55	N.A.	0.00
90-120	0.55	N.A.	0.00
90-130	0.55	N.A.	0.00
90-150	0.55	N.A.	0.00
90-180	0.55	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	5823.26	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1144.44
10-20	1782.1
20-30	1574.11
30-40	868.57
40-50	236.70
50-60	125.47
60-70	61.48
70-80	26.30
80-90	3.53
90-100	0.52
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-L70-927-RDB-XXX-DIM-UNV-N-XXX_.IES

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

IES INDOOR REPORT

PHOTOMETRIC FILENAME : W6CR-XX-L70-927-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

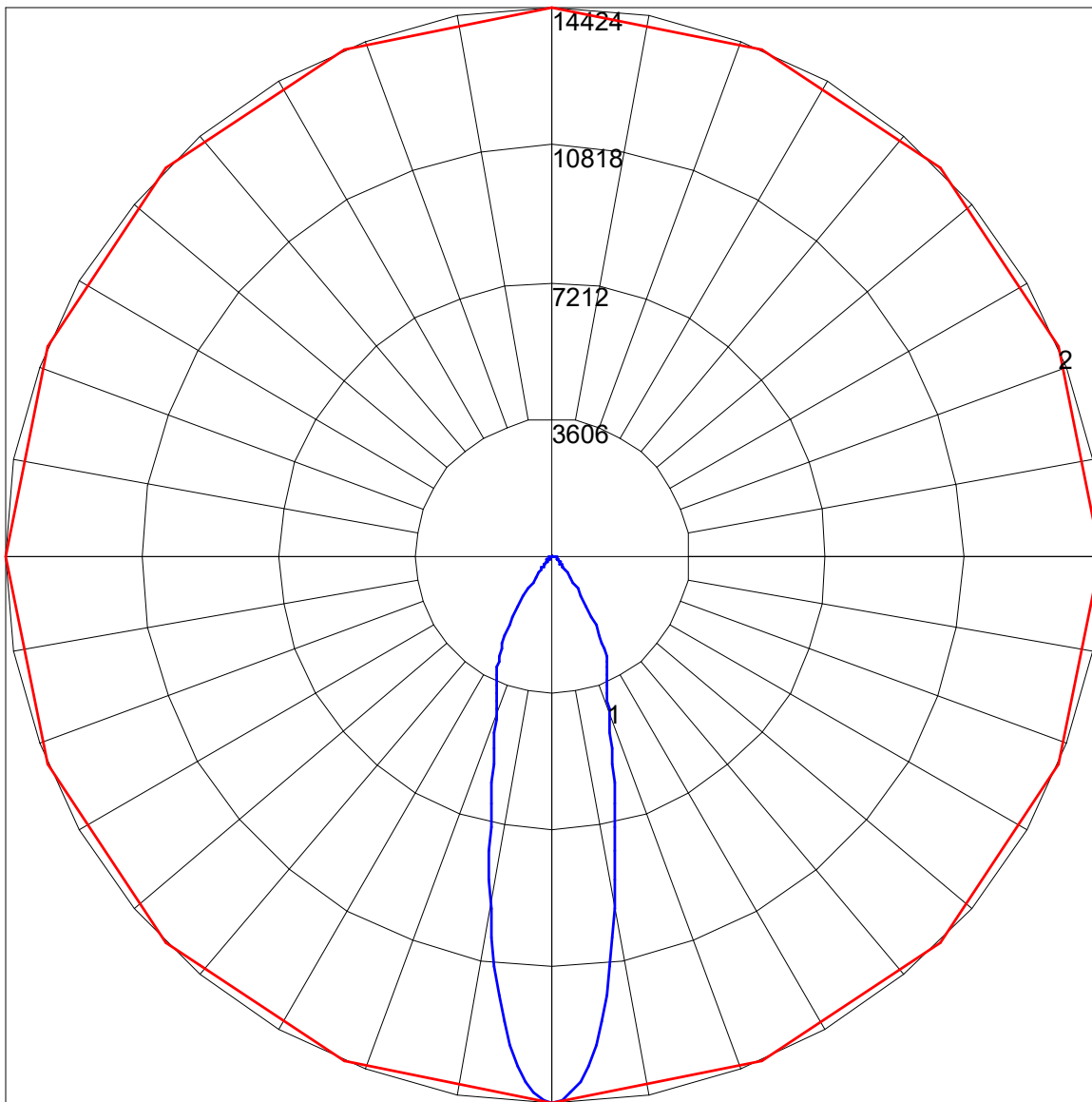
X=2H	Y=2H	13.3	14.3	13.6	14.6	14.9	13.1	14.0	13.4	14.4	14.7
	3H	14.0	14.9	14.4	15.2	15.6	13.8	14.7	14.2	15.0	15.4
	4H	14.3	15.1	14.7	15.4	15.8	14.0	14.8	14.4	15.2	15.6
	6H	14.4	15.1	14.8	15.5	15.9	14.2	14.9	14.6	15.3	15.6
	8H	14.3	15.0	14.7	15.4	15.8	14.1	14.8	14.5	15.2	15.6
	12H	14.3	14.9	14.7	15.3	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	15.1	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 = 14423.922 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.)