

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : W6CR-XX-L60-950-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-L60-950-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	5863
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	53.6
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	6327	6503	6587
55	7181	6981	6841
65	5302	5210	5060
75	3748	3752	3683
85	1028	1052	1028

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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	31685.3693	1685.3693	1685.3693	1685.3693	1685.3693
1	32169.8323	2185.4523	2122.8163	2093.5863	2039.736
2	33273.7883	3312.9333	3107.8233	2994.5743	2785.246
3	34262.3163	4332.9723	3986.5273	3766.8843	3387.534
4	34319.9163	4425.6613	3983.9253	3715.3143	3172.276
5	32920.4523	3022.8283	2612.6973	2334.2873	1737.492
6	30055.1393	0169.4982	9877.3812	9661.6622	9095.384
7	26184.4542	6273.2002	6151.8342	6041.8592	5588.447
8	21858.6312	1963.9552	1969.2192	2036.5622	1683.973
9	17720.1971	7828.6391	7968.8591	8133.9461	7907.986
10	14153.5731	4265.7491	4476.3571	4695.3671	4562.671
11	11239.2731	11356.1201	11596.3041	11822.4171	11746.249
12	8974.428	9088.097	9301.116	9518.826	9453.952
13	7267.457	7369.889	7557.105	7744.492	7674.354
14	5984.669	6134.249	6260.648	6407.722	6312.563
15	5074.492	5071.506	5247.044	5365.288	5342.451
16	4267.514	4326.933	4441.941	4535.033	4482.371
17	3716.358	3763.927	3858.741	3928.554	3883.129
18	3302.244	3340.683	3414.286	3471.868	3437.239
19	2998.584	3027.279	3084.554	3131.052	3102.357
20	2773.486	2798.141	2840.409	2884.992	2849.463
21	2626.317	2629.495	2670.977	2705.031	2664.219
22	2503.823	2513.662	2528.670	2563.395	2537.476
23	2418.427	2426.123	2435.732	2459.948	2433.952
24	2349.839	2352.979	2358.798	2371.068	2349.399
25	2291.818	2293.790	2292.641	2296.929	2270.991
26	2236.534	2234.639	2222.330	2224.933	2194.056
27	2173.708	2165.266	2145.625	2142.543	2112.757
28	2093.978	2082.799	2050.678	2040.800	2017.944
29	1990.397	1976.251	1933.888	1915.817	1896.905
30	1855.269	1838.673	1791.333	1769.510	1745.926
31	1685.397	1669.107	1623.260	1603.333	1574.829
32	1489.606	1476.130	1437.136	1425.765	1400.248
33	1270.614	1263.627	1239.086	1237.688	1224.193
34	1044.252	1043.850	1037.514	1050.933	1047.468
35	824.456	831.251	841.416	869.383	872.255
36	627.860	641.375	665.189	701.598	706.058
37	464.439	474.930	504.007	544.303	553.070
38	321.233	337.964	376.019	415.779	424.163
39	232.737	245.524	272.592	307.833	317.807
40	162.158	175.385	203.831	225.960	230.956
41	124.695	133.788	150.844	171.844	172.590
42	103.504	108.960	118.895	129.768	133.156
43	91.483	94.584	100.078	106.548	107.429
44	84.955	86.506	89.415	92.957	92.421
45	81.222	82.218	83.481	85.434	84.553
46	79.040	79.825	80.246	81.529	80.571
47	77.738	78.389	78.313	79.308	78.389
48	76.973	77.413	77.088	77.834	76.992
49	76.475	76.762	76.264	76.781	75.939
50	76.130	76.245	75.575	75.958	75.039
51	75.920	75.939	75.039	75.250	74.254
52	75.843	75.728	74.580	74.637	73.604
53	75.824	75.537	74.197	74.120	73.010

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**CANDELA TABULATION - (Cont.)**

54	75.709	75.250	73.738	73.470	72.302
55	74.771	74.274	72.685	72.302	71.230
56	73.010	72.493	70.828	70.330	69.526
57	70.560	70.215	68.397	67.899	67.191
58	67.746	67.459	65.602	65.047	64.645
59	64.358	64.166	62.309	61.812	61.505
60	60.548	60.414	58.711	58.251	57.945
61	56.547	56.375	54.901	54.499	54.040
62	52.413	52.202	51.015	50.671	50.001
63	48.354	48.029	47.168	46.861	46.038
64	44.411	44.047	43.473	43.186	42.248
65	40.678	40.372	39.970	39.721	38.821
66	37.156	36.964	36.696	36.505	35.625
67	34.036	33.902	33.749	33.557	32.830
68	31.279	31.164	31.107	30.915	30.284
69	28.752	28.733	28.676	28.561	27.987
70	26.474	26.532	26.513	26.417	25.900
71	24.464	24.503	24.503	24.445	23.986
72	22.627	22.665	22.646	22.607	22.148
73	20.885	20.923	20.904	20.866	20.483
74	19.219	19.258	19.238	19.238	18.894
75	17.611	17.630	17.630	17.650	17.305
76	16.003	16.061	16.061	16.080	15.774
77	14.434	14.472	14.510	14.529	14.300
78	12.826	12.826	12.902	12.940	12.806
79	11.141	11.141	11.275	11.332	11.198
80	9.342	9.361	9.476	9.610	9.495
81	7.217	7.370	7.389	7.542	7.427
82	4.135	4.307	4.460	4.499	4.499
83	1.953	1.991	2.163	2.278	2.355
84	1.780	1.780	1.799	1.799	1.742
85	1.627	1.646	1.665	1.665	1.627
86	1.474	1.474	1.474	1.474	1.455
87	1.244	1.263	1.263	1.244	1.225
88	0.976	0.976	0.995	0.976	0.957
89	0.651	0.632	0.651	0.651	0.632
90	0.325	0.364	0.383	0.421	0.383
91	0.325	0.325	0.345	0.345	0.325
92	0.345	0.325	0.345	0.345	0.325
93	0.345	0.325	0.345	0.345	0.345
94	0.364	0.345	0.364	0.364	0.345
95	0.364	0.364	0.364	0.364	0.364
96	0.364	0.364	0.364	0.364	0.364
97	0.383	0.383	0.364	0.383	0.364
98	0.383	0.402	0.383	0.383	0.383
99	0.383	0.402	0.402	0.402	0.383
100	0.421	0.402	0.402	0.421	0.383
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	4064.14	N.A.	69.30
0-30	5114.66	N.A.	87.20
0-40	5660.73	N.A.	96.60
0-60	5800.1	N.A.	98.90
0-80	5859.25	N.A.	99.90
0-90	5862.15	N.A.	100.00
10-90	3428.98	N.A.	58.50
20-40	1596.59	N.A.	27.20
20-50	1672.54	N.A.	28.50
40-70	179.85	N.A.	3.10
60-80	59.15	N.A.	1.00
70-80	18.67	N.A.	0.30
80-90	2.90	N.A.	0.00
90-110	0.42	N.A.	0.00
90-120	0.42	N.A.	0.00
90-130	0.42	N.A.	0.00
90-150	0.42	N.A.	0.00
90-180	0.42	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	5862.57	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	2433.16
10-20	1630.98
20-30	1050.52
30-40	546.07
40-50	75.96
50-60	63.42
60-70	40.47
70-80	18.67
80-90	2.90
90-100	0.40
100-110	0.02
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

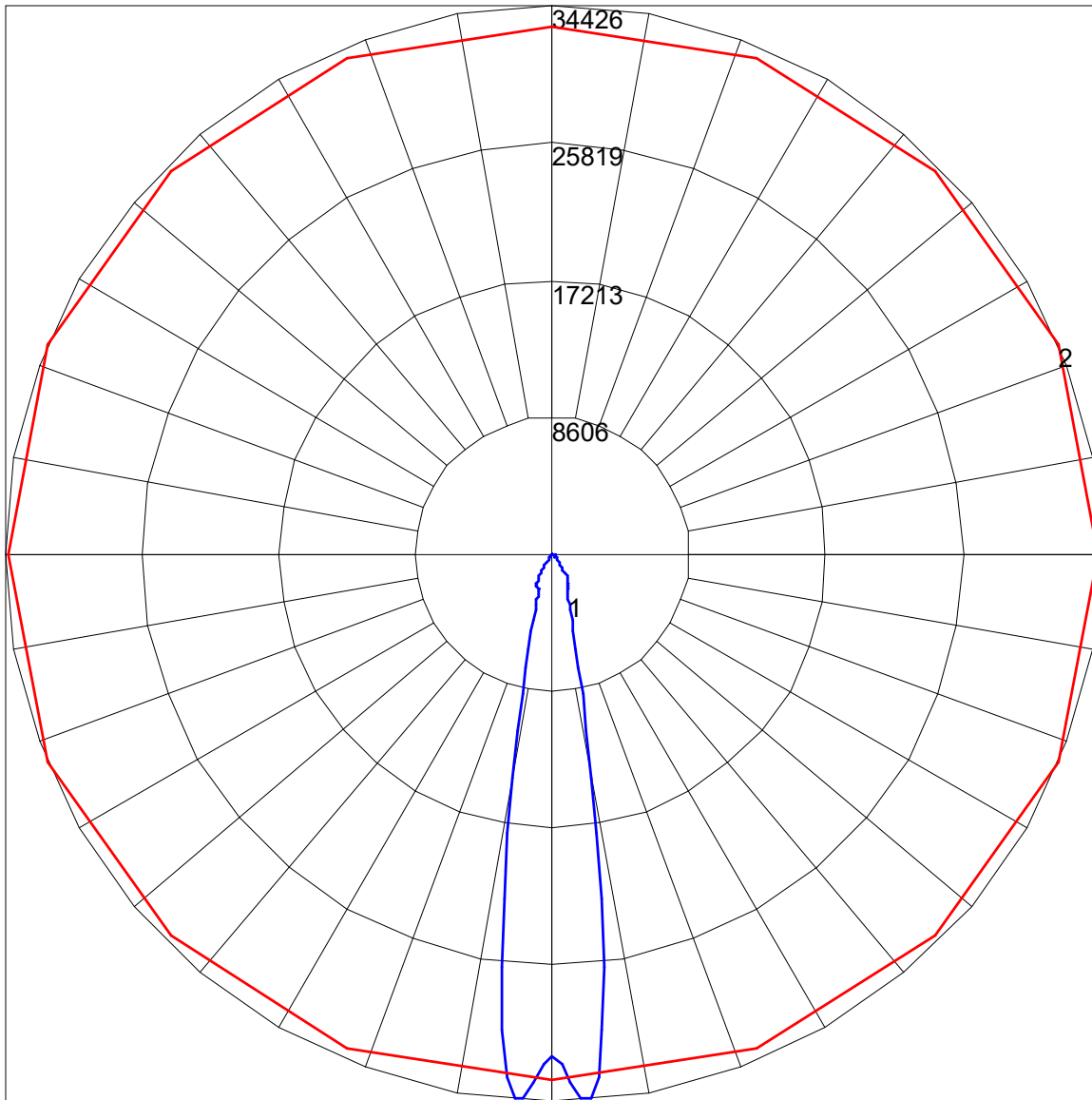
X=2H	Y=2H	9.8	10.8	10.2	11.1	11.4	9.6	10.5	9.9	10.8	11.1
	3H	10.7	11.5	11.1	11.9	12.2	10.5	11.3	10.9	11.6	12.0
	4H	11.0	11.8	11.4	12.1	12.5	10.8	11.6	11.2	11.9	12.3
	6H	11.2	11.9	11.6	12.3	12.7	11.0	11.7	11.4	12.1	12.5
	8H	11.2	11.8	11.6	12.2	12.6	11.0	11.6	11.4	12.0	12.4
	12H	11.1	11.7	11.6	12.1	12.6	10.9	11.6	11.4	11.9	12.4

### UGR Viewed Endwise

4H	2H	10.0	10.8	10.5	11.2	11.6	9.8	10.6	10.2	10.9	11.3
	3H	11.1	11.7	11.5	12.1	12.5	10.9	11.5	11.3	11.9	12.4
	4H	11.5	12.1	12.0	12.5	12.9	11.4	11.9	11.8	12.3	12.8
	6H	11.8	12.3	12.3	12.7	13.2	11.6	12.1	12.1	12.6	13.0
	8H	11.8	12.2	12.2	12.7	13.1	11.6	12.1	12.1	12.5	13.0
	12H	11.7	12.1	12.2	12.6	13.1	11.6	12.0	12.1	12.5	12.9
8H	4H	11.6	12.0	12.1	12.5	12.9	11.4	11.9	11.9	12.3	12.8
	6H	11.9	12.3	12.4	12.8	13.3	11.8	12.1	12.3	12.7	13.1
	8H	11.9	12.2	12.5	12.8	13.3	11.8	12.1	12.4	12.6	13.1
	12H	11.9	12.2	12.4	12.7	13.2	11.8	12.0	12.3	12.5	13.1
12H	4H	11.5	11.9	12.0	12.4	12.9	11.4	11.8	11.9	12.3	12.7
	6H	11.9	12.2	12.4	12.7	13.2	11.8	12.1	12.3	12.6	13.1
	8H	11.9	12.2	12.4	12.7	13.3	11.8	12.1	12.3	12.6	13.1

Maximum UGR = 13.3

POLAR GRAPH



Maximum Candela = 34425.661 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.)