

IES INDOOR REPORT

PHOTOMETRIC FILENAME : W6CR-XX-L60-850-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-L60-850-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	6109
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
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	6594	6777	6864
55	7483	7274	7129
65	5525	5429	5273
75	3906	3910	3838
85	1072	1097	1072

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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	33019.496	33019.496	33019.496	33019.496	33019.496
1	33524.357	33540.636	33475.362	33444.902	33388.784
2	34674.796	34715.590	34501.843	34383.826	34165.684
3	35704.947	35778.578	35417.546	35188.654	34793.331
4	35764.972	35875.169	35414.834	35134.913	34569.010
5	34306.583	34413.270	33985.869	33695.737	33073.813
6	31320.624	31439.798	31135.382	30910.580	30320.459
7	27286.962	27379.445	27252.970	27138.364	26665.861
8	22778.999	22888.757	22894.243	22964.422	22596.987
9	18466.314	18579.322	18725.446	18897.484	18662.010
10	14749.516	14866.415	15085.891	15314.123	15175.839
11	11712.508	11834.275	12084.572	12320.206	12240.830
12	9352.301	9470.756	9692.744	9919.621	9852.015
13	7573.457	7680.202	7875.300	8070.578	7997.486
14	6236.656	6392.535	6524.256	6677.522	6578.356
15	5288.156	5285.044	5467.973	5591.196	5567.398
16	4447.199	4509.120	4628.971	4725.982	4671.103
17	3872.837	3922.409	4021.215	4093.968	4046.630
18	3441.287	3481.344	3558.047	3618.052	3581.965
19	3124.841	3154.744	3214.431	3262.886	3232.983
20	2890.265	2915.958	2960.005	3006.466	2969.441
21	2736.899	2740.211	2783.439	2818.928	2776.398
22	2609.247	2619.501	2635.141	2671.328	2644.317
23	2520.256	2528.276	2538.290	2563.525	2536.435
24	2448.780	2452.052	2458.116	2470.903	2448.322
25	2388.316	2390.371	2389.174	2393.642	2366.612
26	2330.704	2328.729	2315.902	2318.615	2286.438
27	2265.233	2256.435	2235.968	2232.756	2201.716
28	2182.146	2170.496	2137.022	2126.729	2102.910
29	2074.204	2059.462	2015.315	1996.484	1976.775
30	1933.386	1916.091	1866.758	1844.016	1819.439
31	1756.362	1739.385	1691.608	1670.842	1641.138
32	1552.326	1538.283	1497.647	1485.798	1459.206
33	1324.114	1316.832	1291.258	1289.802	1275.738
34	1088.220	1087.802	1081.199	1095.183	1091.572
35	859.170	866.251	876.844	905.989	908.982
36	654.297	668.381	693.197	731.139	735.787
37	483.995	494.927	525.229	567.221	576.357
38	334.759	352.194	391.852	433.285	442.023
39	242.536	255.862	284.069	320.795	331.188
40	168.985	182.770	212.414	235.474	240.681
41	129.946	139.421	157.196	179.079	179.857
42	107.863	113.548	123.901	135.232	138.763
43	95.335	98.566	104.292	111.034	111.952
44	88.532	90.148	93.180	96.871	96.312
45	84.642	85.680	86.996	89.031	88.113
46	82.368	83.186	83.625	84.961	83.964
47	81.012	81.690	81.610	82.647	81.690
48	80.214	80.672	80.333	81.111	80.234
49	79.695	79.994	79.476	80.014	79.136
50	79.336	79.456	78.757	79.156	78.199
51	79.116	79.136	78.199	78.418	77.381
52	79.037	78.917	77.720	77.780	76.703
53	79.017	78.717	77.321	77.241	76.084

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CANDELA TABULATION - (Cont.)

54	78.897	78.418	76.842	76.563	75.346
55	77.920	77.401	75.745	75.346	74.229
56	76.084	75.546	73.810	73.291	72.454
57	73.531	73.172	71.277	70.758	70.020
58	70.598	70.299	68.364	67.786	67.367
59	67.067	66.868	64.933	64.414	64.095
60	63.098	62.958	61.183	60.704	60.385
61	58.928	58.749	57.213	56.794	56.315
62	54.619	54.400	53.163	52.804	52.106
63	50.390	50.051	49.154	48.834	47.977
64	46.281	45.902	45.303	45.004	44.027
65	42.391	42.072	41.653	41.394	40.456
66	38.720	38.521	38.242	38.042	37.124
67	35.469	35.329	35.170	34.970	34.212
68	32.596	32.476	32.417	32.217	31.559
69	29.963	29.943	29.883	29.763	29.165
70	27.589	27.649	27.629	27.529	26.991
71	25.494	25.534	25.534	25.474	24.996
72	23.579	23.619	23.599	23.559	23.081
73	21.764	21.804	21.784	21.744	21.345
74	20.028	20.068	20.048	20.048	19.689
75	18.353	18.373	18.373	18.393	18.034
76	16.677	16.737	16.737	16.757	16.438
77	15.041	15.081	15.121	15.141	14.902
78	13.366	13.366	13.445	13.485	13.346
79	11.610	11.610	11.750	11.810	11.670
80	9.735	9.755	9.875	10.014	9.895
81	7.521	7.680	7.700	7.860	7.740
82	4.309	4.488	4.648	4.688	4.688
83	2.035	2.075	2.254	2.374	2.454
84	1.855	1.855	1.875	1.875	1.815
85	1.696	1.716	1.736	1.736	1.696
86	1.536	1.536	1.536	1.536	1.516
87	1.297	1.317	1.317	1.297	1.277
88	1.017	1.017	1.037	1.017	0.997
89	0.678	0.658	0.678	0.678	0.658
90	0.339	0.379	0.399	0.439	0.399
91	0.339	0.339	0.359	0.359	0.339
92	0.359	0.339	0.359	0.359	0.339
93	0.359	0.339	0.359	0.359	0.359
94	0.379	0.359	0.379	0.379	0.359
95	0.379	0.379	0.379	0.379	0.379
96	0.379	0.379	0.379	0.379	0.379
97	0.399	0.399	0.379	0.399	0.379
98	0.399	0.419	0.399	0.399	0.399
99	0.399	0.419	0.419	0.419	0.399
100	0.439	0.419	0.419	0.439	0.399
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	4235.26	N.A.	69.30
0-30	5330.01	N.A.	87.20
0-40	5899.08	N.A.	96.60
0-60	6044.32	N.A.	98.90
0-80	6105.96	N.A.	99.90
0-90	6108.98	N.A.	100.00
10-90	3573.36	N.A.	58.50
20-40	1663.81	N.A.	27.20
20-50	1742.97	N.A.	28.50
40-70	187.42	N.A.	3.10
60-80	61.64	N.A.	1.00
70-80	19.46	N.A.	0.30
80-90	3.02	N.A.	0.00
90-110	0.44	N.A.	0.00
90-120	0.44	N.A.	0.00
90-130	0.44	N.A.	0.00
90-150	0.44	N.A.	0.00
90-180	0.44	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	6109.41	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2535.61
10-20	1699.65
20-30	1094.75
30-40	569.06
40-50	79.15
50-60	66.09
60-70	42.18
70-80	19.46
80-90	3.02
90-100	0.41
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	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	97	93	90	95	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	86	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	78	75	81	77	75	80	77	74	79	76	74	73
10	87	80	76	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	9.9	10.9	10.3	11.2	11.5	9.7	10.6	10.0	10.9	11.2
	3H	10.8	11.6	11.2	12.0	12.3	10.6	11.4	11.0	11.7	12.1
	4H	11.1	11.9	11.5	12.2	12.6	10.9	11.7	11.3	12.0	12.4
	6H	11.3	12.0	11.7	12.4	12.8	11.1	11.8	11.5	12.2	12.6
	8H	11.3	11.9	11.7	12.3	12.7	11.1	11.7	11.5	12.1	12.5
	12H	11.2	11.8	11.7	12.2	12.7	11.0	11.7	11.5	12.0	12.5

UGR Viewed Endwise

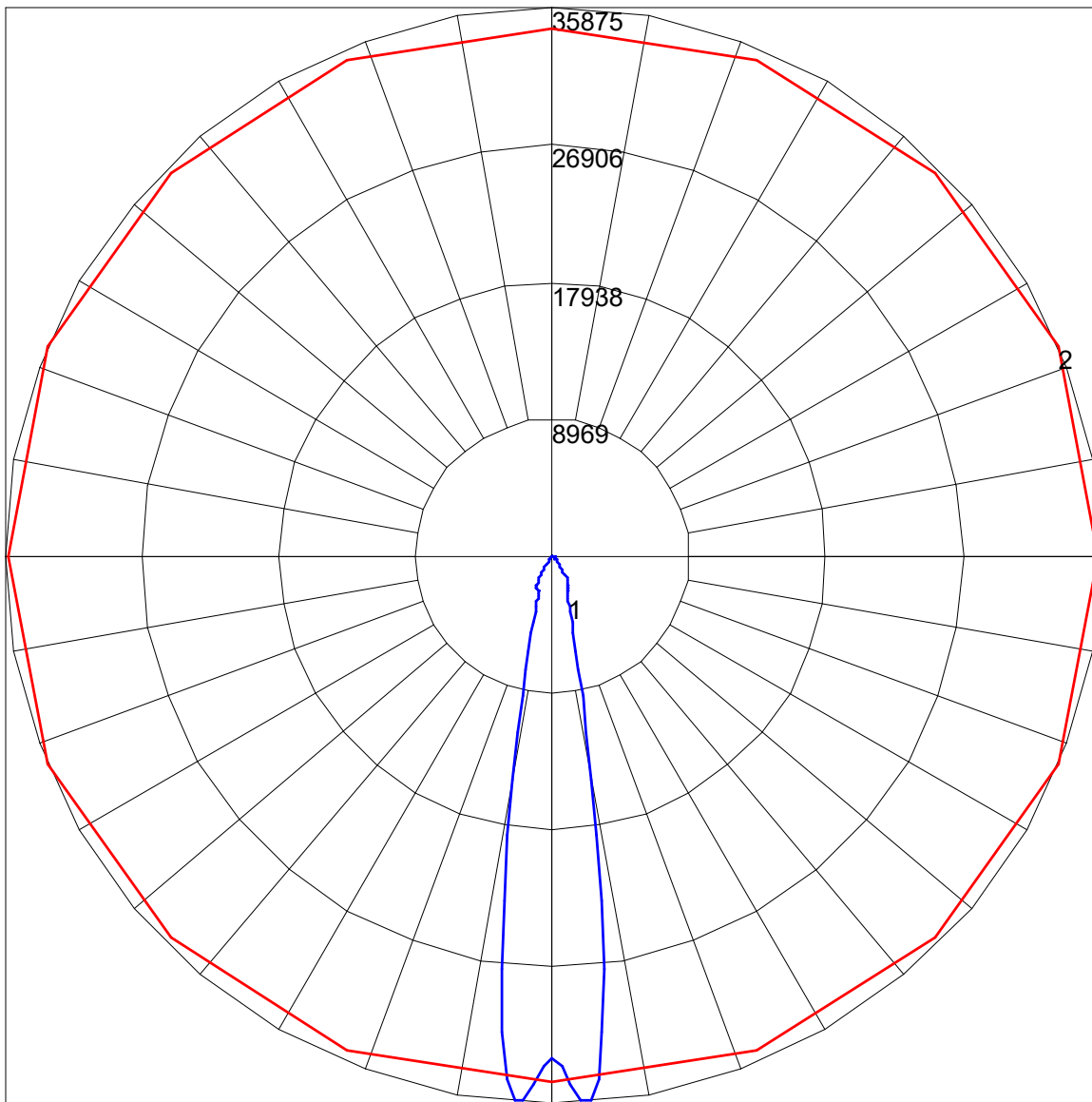
4H	2H	10.1	10.9	10.6	11.3	11.7	9.9	10.7	10.3	11.0	11.4
	3H	11.2	11.8	11.6	12.2	12.6	11.0	11.6	11.4	12.0	12.5
	4H	11.6	12.2	12.1	12.6	13.0	11.5	12.0	11.9	12.4	12.9
	6H	11.9	12.4	12.4	12.8	13.3	11.7	12.2	12.2	12.7	13.1
	8H	11.9	12.3	12.3	12.8	13.2	11.7	12.2	12.2	12.6	13.1
	12H	11.8	12.2	12.3	12.7	13.2	11.7	12.1	12.2	12.6	13.0

8H	4H	11.7	12.1	12.2	12.6	13.0	11.5	12.0	12.0	12.4	12.9
	6H	12.0	12.4	12.5	12.9	13.4	11.9	12.2	12.4	12.8	13.2
	8H	12.0	12.3	12.6	12.9	13.4	11.9	12.2	12.5	12.7	13.2
	12H	12.0	12.3	12.5	12.7	13.3	11.9	12.1	12.4	12.6	13.2

12H	4H	11.6	12.0	12.1	12.5	13.0	11.5	11.9	12.0	12.4	12.8
	6H	12.0	12.3	12.5	12.8	13.3	11.9	12.2	12.4	12.7	13.2
	8H	12.0	12.3	12.5	12.8	13.4	11.9	12.2	12.4	12.7	13.2

Maximum UGR = 13.4

POLAR GRAPH



Maximum Candela = 35875.169 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.)