

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4CR-XX-L25-930-XXX-DIM-UNV-OW-SG-F_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM 13131414.04
[TESTLAB] UL Verification Services Inc.
[ISSUE DATE] 04/16/2025
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO. 64836
[LUMCAT] 4CR-xx-L25-930-xxx-DIM-UNV-OW-SG-F
[LUMINAIRE] Aluminum housing and reflector, no enclosure
[LAMP] One white LED
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Indoor, Downlight
[SEARCH_MOUNTING] Pendant, Surface, Suspended, Wall

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1207
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	40
Total Luminaire Watts	30.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.02
Spacing Criterion (90-270)	1.02
Spacing Criterion (Diagonal)	0.88
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.21 ft (Diameter)
Luminous Width (90-270)	0.21 ft (Diameter)
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	75060	75060	75060
55	28924	28924	28924
65	10479	10479	10479
75	3818	3818	3818
85	1173	1173	1173

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CANDELA TABULATION

	<u>0</u>
0.0	1095.791
0.5	1095.791
1.0	1095.253
1.5	1094.177
2.0	1093.100
2.5	1091.485
3.0	1089.871
3.5	1088.256
4.0	1086.103
4.5	1085.027
5.0	1083.412
5.5	1082.874
6.0	1081.798
6.5	1081.260
7.0	1080.721
7.5	1080.183
8.0	1080.183
8.5	1079.645
9.0	1079.107
9.5	1079.107
10.0	1079.107
10.5	1078.568
11.0	1078.568
11.5	1078.568
12.0	1078.568
12.5	1078.568
13.0	1077.492
13.5	1076.416
14.0	1074.263
14.5	1072.110
15.0	1068.881
15.5	1065.652
16.0	1062.422
16.5	1059.193
17.0	1055.964
17.5	1052.735
18.0	1048.967
18.5	1044.661
19.0	1040.356
19.5	1035.512
20.0	1030.668
20.5	1023.671
21.0	1016.675
21.5	1005.372
22.0	990.841
22.5	973.618
23.0	955.319
23.5	935.405
24.0	914.415
24.5	890.734
25.0	865.438
25.5	835.299
26.0	803.544
26.5	768.561

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CANDELA TABULATION - (Cont.)

27.0	732.501
27.5	695.903
28.0	659.305
28.5	623.783
29.0	589.876
29.5	558.660
30.0	530.350
30.5	504.624
31.0	480.781
31.5	458.553
32.0	437.402
32.5	417.434
33.0	399.296
33.5	383.688
34.0	370.341
34.5	359.523
35.0	350.373
35.5	342.085
36.0	333.581
36.5	324.593
37.0	315.444
37.5	306.240
38.0	296.875
38.5	287.242
39.0	277.554
39.5	267.758
40.0	257.963
40.5	248.168
41.0	238.426
41.5	228.900
42.0	219.535
42.5	210.385
43.0	201.344
43.5	192.571
44.0	184.013
44.5	175.725
45.0	167.706
45.5	160.009
46.0	152.528
46.5	145.262
47.0	138.373
47.5	131.646
48.0	125.187
48.5	118.890
49.0	112.701
49.5	106.565
50.0	100.645
50.5	94.940
51.0	89.450
51.5	84.230
52.0	79.170
52.5	74.273
53.0	69.483
53.5	64.854
54.0	60.495
54.5	56.350

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CANDELA TABULATION - (Cont.)

55.0	52.421
55.5	48.708
56.0	45.317
56.5	42.142
57.0	39.235
57.5	36.598
58.0	34.176
58.5	31.916
59.0	29.817
59.5	27.933
60.0	26.157
60.5	24.542
61.0	23.035
61.5	21.636
62.0	20.344
62.5	19.106
63.0	17.922
63.5	16.846
64.0	15.877
64.5	14.908
65.0	13.993
65.5	13.132
66.0	12.271
66.5	11.518
67.0	10.764
67.5	10.064
68.0	9.365
68.5	8.719
69.0	8.127
69.5	7.535
70.0	6.997
70.5	6.512
71.0	6.028
71.5	5.597
72.0	5.167
72.5	4.736
73.0	4.359
73.5	4.037
74.0	3.714
74.5	3.391
75.0	3.122
75.5	2.853
76.0	2.583
76.5	2.368
77.0	2.153
77.5	1.938
78.0	1.776
78.5	1.615
79.0	1.453
79.5	1.292
80.0	1.130
80.5	1.023
81.0	0.915
81.5	0.807
82.0	0.753
82.5	0.646

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CANDELA TABULATION - (Cont.)

83.0	0.592
83.5	0.484
84.0	0.431
84.5	0.377
85.0	0.323
85.5	0.269
86.0	0.215
86.5	0.215
87.0	0.161
87.5	0.108
88.0	0.108
88.5	0.108
89.0	0.054
89.5	0.054
90.0	0.054
90.5	0.000
91.0	0.000
91.5	0.000
92.0	0.000
92.5	0.000
93.0	0.000
93.5	0.000
94.0	0.000
94.5	0.000
95.0	0.000
95.5	0.000
96.0	0.000
96.5	0.000
97.0	0.000
97.5	0.000
98.0	0.000
98.5	0.000
99.0	0.000
99.5	0.000
100.0	0.000
100.5	0.000
101.0	0.000
101.5	0.000
102.0	0.000
102.5	0.000
103.0	0.000
103.5	0.000
104.0	0.000
104.5	0.000
105.0	0.000
105.5	0.000
106.0	0.000
106.5	0.000
107.0	0.000
107.5	0.000
108.0	0.000
108.5	0.000
109.0	0.000
109.5	0.000
110.0	0.000
110.5	0.000

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CANDELA TABULATION - (Cont.)

111.0	0.000
111.5	0.000
112.0	0.000
112.5	0.000
113.0	0.000
113.5	0.000
114.0	0.000
114.5	0.000
115.0	0.000
115.5	0.000
116.0	0.000
116.5	0.000
117.0	0.000
117.5	0.000
118.0	0.000
118.5	0.000
119.0	0.000
119.5	0.000
120.0	0.000
120.5	0.000
121.0	0.000
121.5	0.000
122.0	0.000
122.5	0.000
123.0	0.000
123.5	0.000
124.0	0.000
124.5	0.000
125.0	0.000
125.5	0.000
126.0	0.000
126.5	0.000
127.0	0.000
127.5	0.000
128.0	0.000
128.5	0.000
129.0	0.000
129.5	0.000
130.0	0.000
130.5	0.000
131.0	0.000
131.5	0.000
132.0	0.000
132.5	0.000
133.0	0.000
133.5	0.000
134.0	0.000
134.5	0.000
135.0	0.000
135.5	0.000
136.0	0.000
136.5	0.000
137.0	0.000
137.5	0.000
138.0	0.000
138.5	0.000

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CANDELA TABULATION - (Cont.)

139.0	0.000
139.5	0.000
140.0	0.000
140.5	0.000
141.0	0.000
141.5	0.000
142.0	0.000
142.5	0.000
143.0	0.000
143.5	0.000
144.0	0.000
144.5	0.000
145.0	0.000
145.5	0.000
146.0	0.000
146.5	0.000
147.0	0.000
147.5	0.000
148.0	0.000
148.5	0.000
149.0	0.000
149.5	0.000
150.0	0.000
150.5	0.000
151.0	0.000
151.5	0.000
152.0	0.000
152.5	0.000
153.0	0.000
153.5	0.000
154.0	0.000
154.5	0.000
155.0	0.000
155.5	0.000
156.0	0.000
156.5	0.000
157.0	0.000
157.5	0.000
158.0	0.000
158.5	0.000
159.0	0.000
159.5	0.000
160.0	0.000
160.5	0.000
161.0	0.000
161.5	0.000
162.0	0.000
162.5	0.000
163.0	0.000
163.5	0.000
164.0	0.000
164.5	0.000
165.0	0.000
165.5	0.000
166.0	0.000
166.5	0.000

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CANDELA TABULATION - (Cont.)

167.0	0.000
167.5	0.000
168.0	0.000
168.5	0.000
169.0	0.000
169.5	0.000
170.0	0.000
170.5	0.000
171.0	0.000
171.5	0.000
172.0	0.000
172.5	0.000
173.0	0.000
173.5	0.000
174.0	0.000
174.5	0.000
175.0	0.000
175.5	0.000
176.0	0.000
176.5	0.000
177.0	0.000
177.5	0.000
178.0	0.000
178.5	0.000
179.0	0.000
179.5	0.000
180.0	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	404.21	N.A.	33.50
0-30	781.19	N.A.	64.70
0-40	1007.47	N.A.	83.50
0-60	1188.58	N.A.	98.50
0-80	1206.77	N.A.	100.00
0-90	1207.22	N.A.	100.00
10-90	1103.89	N.A.	91.40
20-40	603.26	N.A.	50.00
20-50	734.59	N.A.	60.80
40-70	195.68	N.A.	16.20
60-80	18.19	N.A.	1.50
70-80	3.61	N.A.	0.30
80-90	0.45	N.A.	0.00
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1207.22	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	103.32
10-20	300.89
20-30	376.97
30-40	226.29
40-50	131.33
50-60	49.78
60-70	14.58
70-80	3.61
80-90	0.45
90-100	0.00
100-110	0.00
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	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	95	94	93
2	107	102	97	94	105	100	96	93	97	93	90	94	91	89	91	89	87	85
3	101	94	89	84	99	93	88	84	90	86	82	87	84	81	85	82	80	78
4	95	87	81	77	93	86	80	76	84	79	75	82	78	74	80	76	73	72
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66
6	85	75	69	64	83	75	69	64	73	68	64	72	67	63	70	66	63	61
7	80	71	64	60	79	70	64	59	68	63	59	67	62	59	66	62	58	57
8	76	66	60	55	75	65	59	55	64	59	55	63	58	55	62	58	54	53
9	72	62	56	52	71	62	56	51	61	55	51	60	55	51	59	54	51	49
10	69	58	52	48	68	58	52	48	57	52	48	56	51	48	56	51	48	46

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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

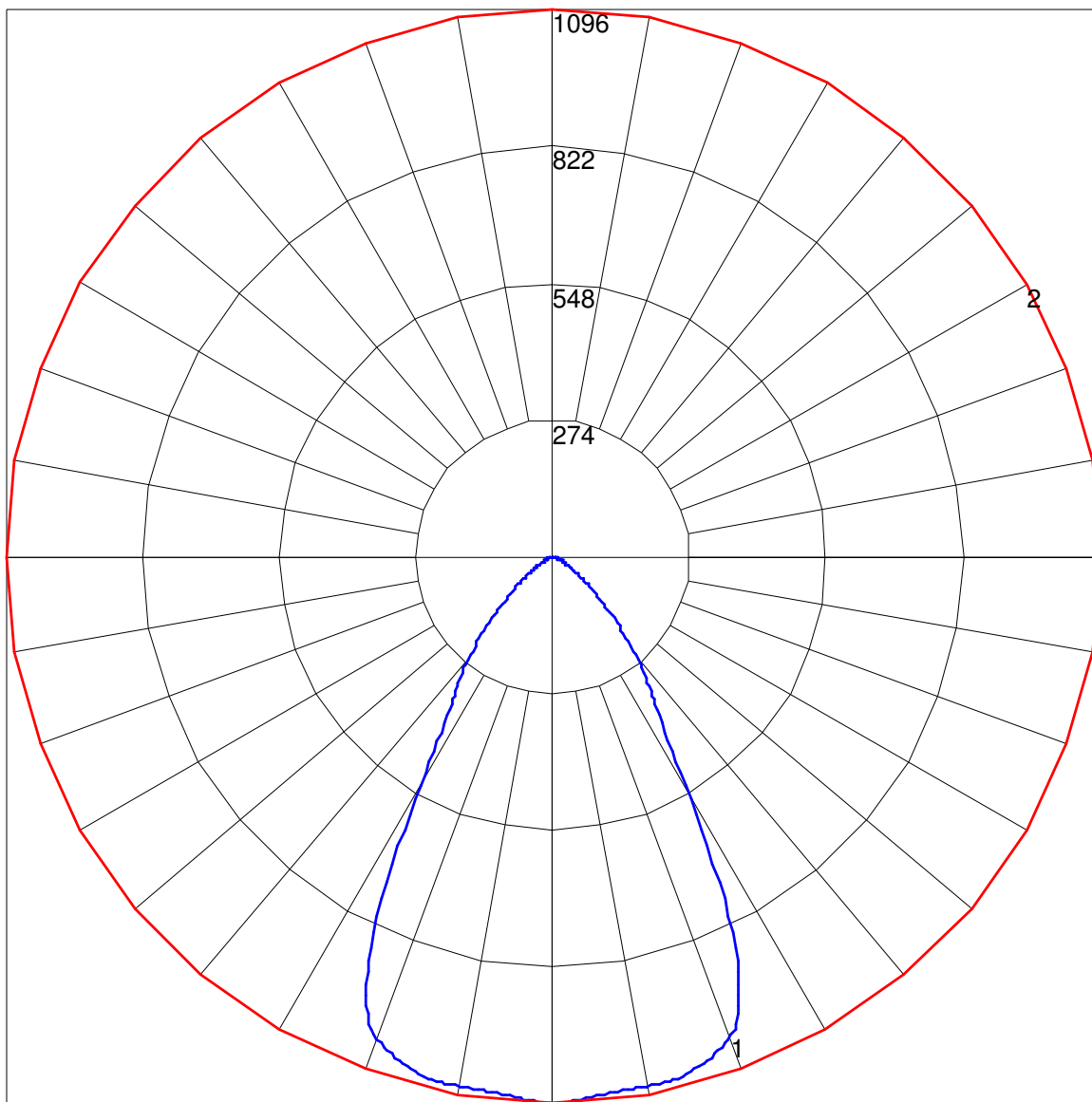
X=2H	Y=2H	16.7	17.8	17.1	18.1	18.4	16.7	17.8	17.1	18.1	18.4
	3H	16.9	17.9	17.3	18.2	18.6	16.9	17.9	17.3	18.2	18.6
	4H	16.9	17.8	17.3	18.1	18.5	16.9	17.8	17.3	18.1	18.5
	6H	16.8	17.6	17.2	18.0	18.4	16.8	17.6	17.2	18.0	18.4
	8H	16.8	17.5	17.2	17.9	18.3	16.8	17.5	17.2	17.9	18.3
	12H	16.7	17.4	17.2	17.8	18.3	16.7	17.4	17.2	17.8	18.3

UGR Viewed Endwise

4H	2H	16.7	17.6	17.1	17.9	18.3	16.7	17.6	17.1	17.9	18.3
	3H	17.0	17.7	17.4	18.1	18.5	17.0	17.7	17.4	18.1	18.5
	4H	17.0	17.6	17.4	18.0	18.5	17.0	17.6	17.4	18.0	18.5
	6H	16.9	17.4	17.4	17.9	18.4	16.9	17.4	17.4	17.9	18.4
	8H	16.8	17.3	17.3	17.8	18.3	16.8	17.3	17.3	17.8	18.3
	12H	16.8	17.2	17.3	17.7	18.2	16.8	17.2	17.3	17.7	18.2
8H	4H	16.8	17.3	17.3	17.8	18.3	16.8	17.3	17.3	17.8	18.3
	6H	16.8	17.2	17.3	17.7	18.2	16.8	17.2	17.3	17.7	18.2
	8H	16.7	17.1	17.2	17.6	18.1	16.7	17.1	17.2	17.6	18.1
	12H	16.7	17.0	17.2	17.5	18.1	16.7	17.0	17.2	17.5	18.1
12H	4H	16.8	17.2	17.3	17.7	18.2	16.8	17.2	17.3	17.7	18.2
	6H	16.7	17.1	17.2	17.5	18.1	16.7	17.1	17.2	17.5	18.1
	8H	16.7	17.0	17.2	17.5	18.1	16.7	17.0	17.2	17.5	18.1

Maximum UGR = 18.6

POLAR GRAPH



Maximum Candela = 1095.791 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.)