

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4CR-XX-L25-835-XXX-DIM-UNV-RW-WH-XX_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM 13257153.03
[TESTLAB] UL Verification Services Inc.
[ISSUE DATE] 07/11/2025
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] 4CR-xx-L25-835-xxx-DIM-UNV-RW-WH-xx
[LUMINAIRE] Aluminum housing, optics, and trim 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	2569
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	85
Total Luminaire Watts	30.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.88
Spacing Criterion (90-270)	0.88
Spacing Criterion (Diagonal)	0.80
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	92098	92098	92098
55	72877	72877	72877
65	54476	54476	54476
75	28365	28365	28365
85	17190	17190	17190

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CANDELA TABULATION

	<u>0</u>
0.0	3061.339
0.5	3061.339
1.0	3059.761
1.5	3058.183
2.0	3058.183
2.5	3055.027
3.0	3050.293
3.5	3043.981
4.0	3037.669
4.5	3031.357
5.0	3021.889
5.5	3013.999
6.0	3004.531
6.5	2993.485
7.0	2982.439
7.5	2971.393
8.0	2960.347
8.5	2947.723
9.0	2933.521
9.5	2920.896
10.0	2906.694
10.5	2890.914
11.0	2873.556
11.5	2856.198
12.0	2837.262
12.5	2818.326
13.0	2797.812
13.5	2775.720
14.0	2752.049
14.5	2728.379
15.0	2701.553
15.5	2674.727
16.0	2644.745
16.5	2614.763
17.0	2583.202
17.5	2550.064
18.0	2515.348
18.5	2477.476
19.0	2438.025
19.5	2395.419
20.0	2351.235
20.5	2305.473
21.0	2256.554
21.5	2206.058
22.0	2150.828
22.5	2095.597
23.0	2037.211
23.5	1977.246
24.0	1914.126
24.5	1851.006
25.0	1786.307
25.5	1718.453
26.0	1649.020
26.5	1579.588

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CANDELA TABULATION - (Cont.)

27.0	1510.629
27.5	1441.354
28.0	1371.448
28.5	1301.858
29.0	1230.690
29.5	1159.048
30.0	1088.038
30.5	1018.132
31.0	949.173
31.5	882.581
32.0	818.514
32.5	757.918
33.0	701.741
33.5	649.667
34.0	601.222
34.5	556.880
35.0	516.640
35.5	479.715
36.0	446.261
36.5	416.279
37.0	389.611
37.5	365.783
38.0	344.164
38.5	324.912
39.0	308.028
39.5	293.194
40.0	279.939
40.5	268.419
41.0	258.162
41.5	249.010
42.0	240.804
42.5	233.545
43.0	226.918
43.5	221.079
44.0	215.556
44.5	210.507
45.0	205.772
45.5	201.196
46.0	196.936
46.5	192.675
47.0	188.730
47.5	184.785
48.0	180.840
48.5	177.053
49.0	173.265
49.5	169.478
50.0	165.849
50.5	162.377
51.0	158.748
51.5	155.276
52.0	151.962
52.5	148.491
53.0	145.177
53.5	141.863
54.0	138.549
54.5	135.235

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CANDELA TABULATION - (Cont.)

55.0	132.079
55.5	128.923
56.0	125.767
56.5	122.611
57.0	119.455
57.5	116.457
58.0	113.301
58.5	110.303
59.0	107.305
59.5	104.464
60.0	101.466
60.5	98.468
61.0	95.470
61.5	92.629
62.0	89.631
62.5	86.791
63.0	83.950
63.5	81.110
64.0	78.269
64.5	75.429
65.0	72.746
65.5	70.064
66.0	67.381
66.5	64.541
67.0	62.016
67.5	59.491
68.0	56.808
68.5	54.284
69.0	51.759
69.5	49.234
70.0	46.867
70.5	44.342
71.0	41.975
71.5	39.450
72.0	37.083
72.5	34.716
73.0	32.349
73.5	29.982
74.0	27.773
74.5	25.406
75.0	23.197
75.5	21.145
76.0	19.094
76.5	17.516
77.0	16.096
77.5	14.833
78.0	13.886
78.5	13.097
79.0	12.466
79.5	11.835
80.0	11.046
80.5	10.415
81.0	9.784
81.5	9.152
82.0	8.363
82.5	7.732

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CANDELA TABULATION - (Cont.)

83.0	7.259
83.5	6.628
84.0	5.996
84.5	5.365
85.0	4.734
85.5	4.261
86.0	3.629
86.5	3.156
87.0	2.525
87.5	2.051
88.0	1.578
88.5	1.105
89.0	0.631
89.5	0.473
90.0	0.000
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
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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
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161.0	0.000
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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

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	1035.44	N.A.	40.30
0-30	1833.00	N.A.	71.40
0-40	2183.92	N.A.	85.00
0-60	2464.43	N.A.	95.90
0-80	2563.3	N.A.	99.80
0-90	2568.76	N.A.	100.00
10-90	2284.00	N.A.	88.90
20-40	1148.48	N.A.	44.70
20-50	1310.61	N.A.	51.00
40-70	352.81	N.A.	13.70
60-80	98.87	N.A.	3.80
70-80	26.57	N.A.	1.00
80-90	5.46	N.A.	0.20
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	2568.76	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	284.75
10-20	750.69
20-30	797.56
30-40	350.92
40-50	162.13
50-60	118.38
60-70	72.30
70-80	26.57
80-90	5.46
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	188	188	188	188	183	183	183	183	175	175	175	168	168	168	161	161	161	158
1	178	174	169	165	174	170	166	163	164	161	158	158	155	153	152	150	149	146
2	169	160	154	148	165	158	151	146	152	147	143	148	144	140	143	140	137	134
3	160	149	140	134	156	147	139	133	142	136	131	139	133	128	135	130	126	124
4	151	139	129	122	148	137	128	122	133	126	120	130	124	119	127	122	117	115
5	143	130	120	113	141	128	119	112	125	117	111	123	116	110	120	114	109	107
6	136	122	112	105	134	120	111	104	118	110	104	116	108	103	114	107	102	100
7	129	114	105	98	127	113	104	97	111	103	97	109	102	96	108	101	96	94
8	123	108	98	92	121	107	98	91	105	97	91	104	96	91	102	95	90	88
9	118	102	93	86	116	101	92	86	100	92	86	98	91	85	97	90	85	83
10	112	97	88	81	111	96	87	81	95	87	81	94	86	81	92	85	80	78

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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	20.6	21.7	21.0	22.0	22.3	20.6	21.7	21.0	22.0	22.3
	3H	21.6	22.6	22.0	22.9	23.3	21.6	22.6	22.0	22.9	23.3
	4H	21.8	22.7	22.2	23.1	23.5	21.8	22.7	22.2	23.1	23.5
	6H	21.9	22.7	22.3	23.1	23.5	21.9	22.7	22.3	23.1	23.5
	8H	21.9	22.6	22.3	23.0	23.4	21.9	22.6	22.3	23.0	23.4
	12H	21.8	22.6	22.3	23.0	23.4	21.8	22.6	22.3	23.0	23.4

UGR Viewed Endwise

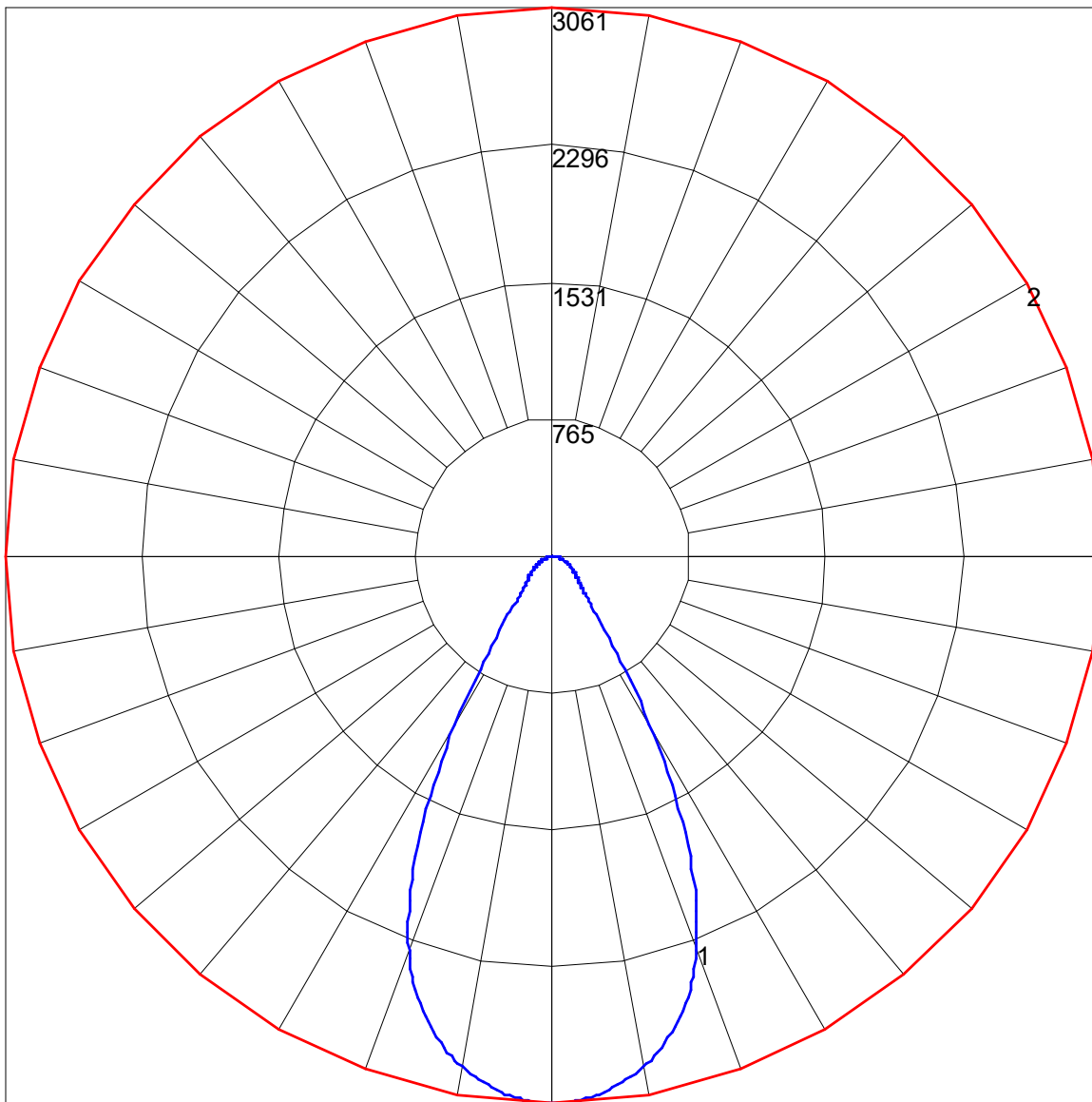
4H	2H	20.9	21.8	21.3	22.2	22.6	20.9	21.8	21.3	22.2	22.6
	3H	22.1	22.8	22.5	23.3	23.7	22.1	22.8	22.5	23.3	23.7
	4H	22.3	23.0	22.8	23.4	23.9	22.3	23.0	22.8	23.4	23.9
	6H	22.4	23.0	22.9	23.4	23.9	22.4	23.0	22.9	23.4	23.9
	8H	22.4	22.9	22.9	23.4	23.9	22.4	22.9	22.9	23.4	23.9
	12H	22.4	22.9	22.9	23.4	23.8	22.4	22.9	22.9	23.4	23.8

8H	4H	22.3	22.9	22.8	23.3	23.8	22.3	22.9	22.8	23.3	23.8
	6H	22.5	22.9	23.0	23.4	23.9	22.5	22.9	23.0	23.4	23.9
	8H	22.5	22.9	23.0	23.4	23.9	22.5	22.9	23.0	23.4	23.9
	12H	22.5	22.9	23.0	23.3	23.9	22.5	22.9	23.0	23.3	23.9

12H	4H	22.3	22.8	22.8	23.2	23.7	22.3	22.8	22.8	23.2	23.7
	6H	22.4	22.8	23.0	23.3	23.8	22.4	22.8	23.0	23.3	23.8
	8H	22.5	22.8	23.0	23.3	23.9	22.5	22.8	23.0	23.3	23.9

Maximum UGR = 23.9

POLAR GRAPH



Maximum Candela = 3061.339 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.)