

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4LDR-L10-940-BL-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM 4792018053.05
[TESTLAB] UL, LLC
[ISSUE DATE] 2025-12-10
[TEST DATE] 11/11/2025
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] 4LDR-L10-940-BL-DIM-UNV
[LUMINAIRE] 4" recessed downlight with textured black finish reflector
[MORE] and top diffuser lens
[LAMP] LED
[BALLAST] 0-10V LED DRIVER

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	346
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	37
Total Luminaire Watts	9.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.00
Spacing Criterion (90-270)	1.00
Spacing Criterion (Diagonal)	0.94
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.38 ft (Diameter)
Luminous Width (90-270)	0.38 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	4336	4336	4336
55	562	562	562
65	195	195	195
75	84	84	84
85	56	56	56

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CANDELA TABULATION

	<u>0</u>
0.0	345.720
0.5	345.720
1.0	345.720
1.5	345.471
2.0	345.223
2.5	344.974
3.0	344.725
3.5	343.979
4.0	343.481
4.5	342.984
5.0	342.238
5.5	341.740
6.0	340.746
6.5	339.999
7.0	339.005
7.5	338.010
8.0	337.015
8.5	335.771
9.0	334.528
9.5	333.284
10.0	332.040
10.5	330.548
11.0	329.056
11.5	327.563
12.0	325.822
12.5	324.330
13.0	322.340
13.5	320.848
14.0	318.858
14.5	317.117
15.0	315.127
15.5	313.138
16.0	311.397
16.5	309.407
17.0	307.915
17.5	305.925
18.0	303.935
18.5	301.945
19.0	299.458
19.5	296.722
20.0	293.986
20.5	291.250
21.0	288.017
21.5	284.784
22.0	281.053
22.5	277.322
23.0	273.094
23.5	268.617
24.0	263.643
24.5	258.419
25.0	253.196
25.5	247.725
26.0	242.004
26.5	236.109

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CANDELA TABULATION - (Cont.)

27.0	230.065
27.5	223.847
28.0	217.480
28.5	211.014
29.0	204.522
29.5	197.956
30.0	191.414
30.5	184.823
31.0	178.207
31.5	171.616
32.0	165.075
32.5	158.583
33.0	152.167
33.5	145.874
34.0	139.681
34.5	133.537
35.0	127.543
35.5	121.649
36.0	115.853
36.5	110.108
37.0	104.512
37.5	98.990
38.0	93.593
38.5	88.295
39.0	83.072
39.5	77.924
40.0	72.925
40.5	68.050
41.0	63.299
41.5	58.698
42.0	54.246
42.5	49.943
43.0	45.864
43.5	41.959
44.0	38.253
44.5	34.771
45.0	31.488
45.5	28.404
46.0	25.543
46.5	22.907
47.0	20.494
47.5	18.281
48.0	16.266
48.5	14.426
49.0	12.784
49.5	11.317
50.0	9.999
50.5	8.830
51.0	7.810
51.5	6.939
52.0	6.168
52.5	5.497
53.0	4.925
53.5	4.427
54.0	4.004
54.5	3.631

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CANDELA TABULATION - (Cont.)

55.0	3.308
55.5	3.059
56.0	2.835
56.5	2.661
57.0	2.512
57.5	2.363
58.0	2.214
58.5	2.064
59.0	1.940
59.5	1.791
60.0	1.691
60.5	1.567
61.0	1.467
61.5	1.368
62.0	1.268
62.5	1.194
63.0	1.119
63.5	1.045
64.0	0.970
64.5	0.920
65.0	0.846
65.5	0.796
66.0	0.746
66.5	0.696
67.0	0.647
67.5	0.622
68.0	0.572
68.5	0.547
69.0	0.497
69.5	0.473
70.0	0.448
70.5	0.423
71.0	0.398
71.5	0.373
72.0	0.348
72.5	0.323
73.0	0.298
73.5	0.298
74.0	0.274
74.5	0.249
75.0	0.224
75.5	0.224
76.0	0.199
76.5	0.199
77.0	0.174
77.5	0.174
78.0	0.149
78.5	0.149
79.0	0.149
79.5	0.124
80.0	0.124
80.5	0.099
81.0	0.099
81.5	0.099
82.0	0.099
82.5	0.075

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CANDELA TABULATION - (Cont.)

83.0	0.075
83.5	0.075
84.0	0.050
84.5	0.050
85.0	0.050
85.5	0.050
86.0	0.050
86.5	0.025
87.0	0.025
87.5	0.025
88.0	0.025
88.5	0.025
89.0	0.025
89.5	0.025
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
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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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	120.99	N.A.	35.00
0-30	235.03	N.A.	68.00
0-40	314.62	N.A.	91.00
0-60	344.61	N.A.	99.60
0-80	345.78	N.A.	100.00
0-90	345.84	N.A.	100.00
10-90	313.49	N.A.	90.60
20-40	193.63	N.A.	56.00
20-50	219.97	N.A.	63.60
40-70	30.89	N.A.	8.90
60-80	1.17	N.A.	0.30
70-80	0.26	N.A.	0.10
80-90	0.06	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	345.84	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	32.35
10-20	88.64
20-30	114.04
30-40	79.59
40-50	26.33
50-60	3.65
60-70	0.91
70-80	0.26
80-90	0.06
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

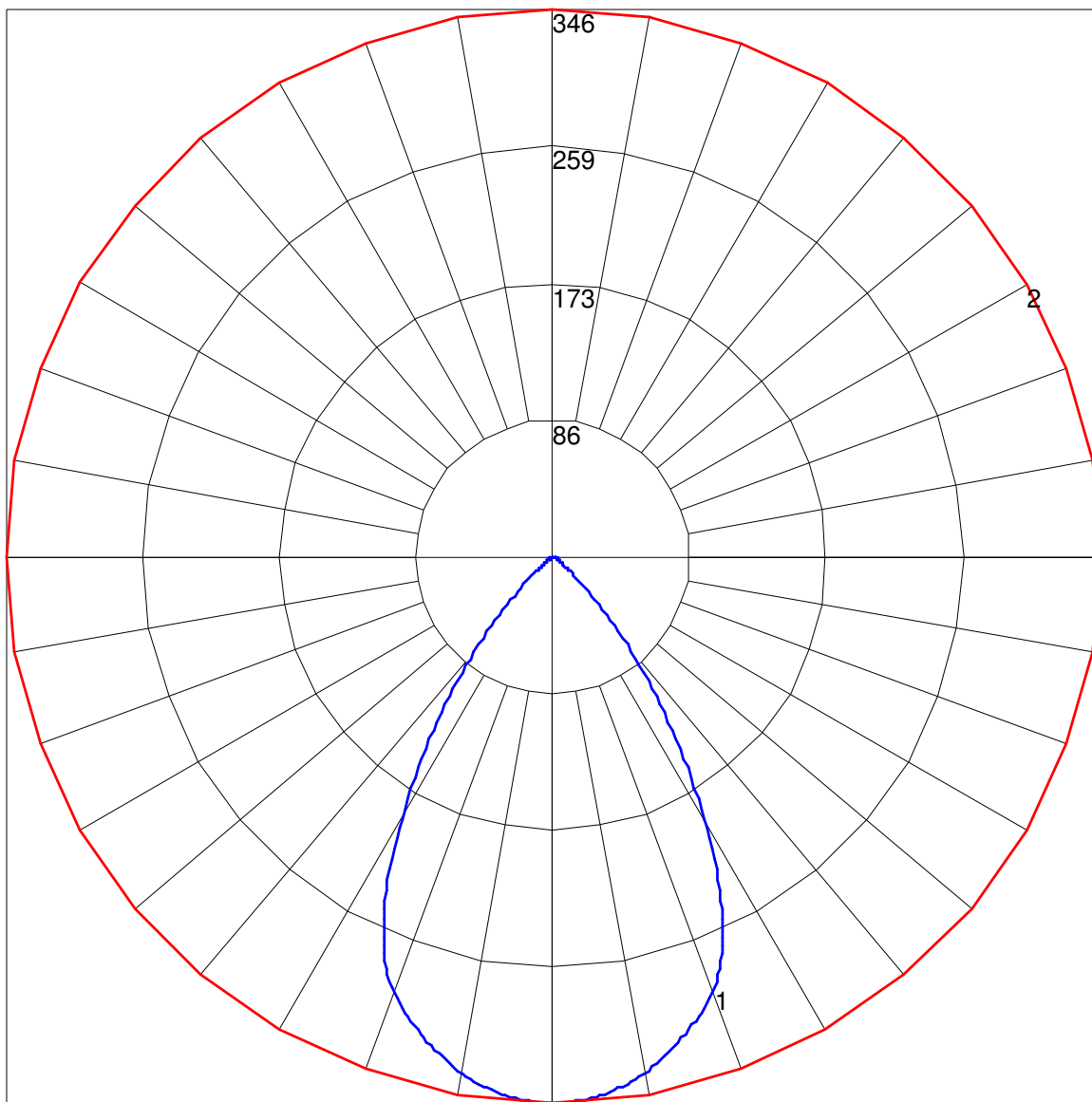
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86
3	102	95	90	86	100	94	89	86	91	87	84	89	86	83	87	84	82	80
4	97	89	83	79	95	88	83	78	86	81	78	84	80	77	82	78	76	74
5	92	83	77	73	90	82	76	72	80	75	72	79	74	71	77	73	70	69
6	87	78	72	67	85	77	71	67	75	70	66	74	69	66	73	69	66	64
7	82	73	67	62	81	72	66	62	71	66	62	70	65	61	68	64	61	60
8	78	68	62	58	77	68	62	58	67	61	58	66	61	57	65	60	57	56
9	74	64	58	54	73	64	58	54	63	58	54	62	57	54	61	57	54	52
10	71	61	55	51	70	60	55	51	59	54	51	59	54	50	58	53	50	49

POLAR GRAPH



Maximum Candela = 345.72 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.)