

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4LDR-L10-935-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-L10-935-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	334
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	36
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	4184	4184	4184
55	542	542	542
65	188	188	188
75	81	81	81
85	54	54	54

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CANDELA TABULATION

	<u>0</u>
0.0	333.660
0.5	333.660
1.0	333.660
1.5	333.420
2.0	333.180
2.5	332.940
3.0	332.700
3.5	331.980
4.0	331.500
4.5	331.020
5.0	330.299
5.5	329.819
6.0	328.859
6.5	328.139
7.0	327.179
7.5	326.219
8.0	325.259
8.5	324.058
9.0	322.858
9.5	321.658
10.0	320.458
10.5	319.017
11.0	317.577
11.5	316.137
12.0	314.457
12.5	313.016
13.0	311.096
13.5	309.656
14.0	307.735
14.5	306.055
15.0	304.135
15.5	302.214
16.0	300.534
16.5	298.614
17.0	297.173
17.5	295.253
18.0	293.333
18.5	291.412
19.0	289.012
19.5	286.372
20.0	283.731
20.5	281.091
21.0	277.970
21.5	274.849
22.0	271.249
22.5	267.648
23.0	263.567
23.5	259.247
24.0	254.446
24.5	249.405
25.0	244.364
25.5	239.083
26.0	233.562
26.5	227.873

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CANDELA TABULATION - (Cont.)

27.0	222.040
27.5	216.039
28.0	209.894
28.5	203.653
29.0	197.388
29.5	191.050
30.0	184.737
30.5	178.376
31.0	171.991
31.5	165.630
32.0	159.317
32.5	153.052
33.0	146.858
33.5	140.785
34.0	134.808
34.5	128.879
35.0	123.094
35.5	117.405
36.0	111.812
36.5	106.267
37.0	100.866
37.5	95.537
38.0	90.328
38.5	85.215
39.0	80.174
39.5	75.206
40.0	70.381
40.5	65.676
41.0	61.091
41.5	56.650
42.0	52.353
42.5	48.201
43.0	44.264
43.5	40.495
44.0	36.919
44.5	33.558
45.0	30.389
45.5	27.413
46.0	24.652
46.5	22.108
47.0	19.780
47.5	17.643
48.0	15.699
48.5	13.923
49.0	12.338
49.5	10.922
50.0	9.650
50.5	8.522
51.0	7.537
51.5	6.697
52.0	5.953
52.5	5.305
53.0	4.753
53.5	4.273
54.0	3.865
54.5	3.505

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CANDELA TABULATION - (Cont.)

55.0	3.193
55.5	2.953
56.0	2.736
56.5	2.568
57.0	2.424
57.5	2.280
58.0	2.136
58.5	1.992
59.0	1.872
59.5	1.728
60.0	1.632
60.5	1.512
61.0	1.416
61.5	1.320
62.0	1.224
62.5	1.152
63.0	1.080
63.5	1.008
64.0	0.936
64.5	0.888
65.0	0.816
65.5	0.768
66.0	0.720
66.5	0.672
67.0	0.624
67.5	0.600
68.0	0.552
68.5	0.528
69.0	0.480
69.5	0.456
70.0	0.432
70.5	0.408
71.0	0.384
71.5	0.360
72.0	0.336
72.5	0.312
73.0	0.288
73.5	0.288
74.0	0.264
74.5	0.240
75.0	0.216
75.5	0.216
76.0	0.192
76.5	0.192
77.0	0.168
77.5	0.168
78.0	0.144
78.5	0.144
79.0	0.144
79.5	0.120
80.0	0.120
80.5	0.096
81.0	0.096
81.5	0.096
82.0	0.096
82.5	0.072

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CANDELA TABULATION - (Cont.)

83.0	0.072
83.5	0.072
84.0	0.048
84.5	0.048
85.0	0.048
85.5	0.048
86.0	0.048
86.5	0.024
87.0	0.024
87.5	0.024
88.0	0.024
88.5	0.024
89.0	0.024
89.5	0.024
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
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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	116.77	N.A.	35.00
0-30	226.83	N.A.	68.00
0-40	303.65	N.A.	91.00
0-60	332.58	N.A.	99.60
0-80	333.72	N.A.	100.00
0-90	333.77	N.A.	100.00
10-90	302.55	N.A.	90.60
20-40	186.88	N.A.	56.00
20-50	212.29	N.A.	63.60
40-70	29.81	N.A.	8.90
60-80	1.13	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	333.77	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	31.22
10-20	85.55
20-30	110.06
30-40	76.81
40-50	25.41
50-60	3.52
60-70	0.87
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

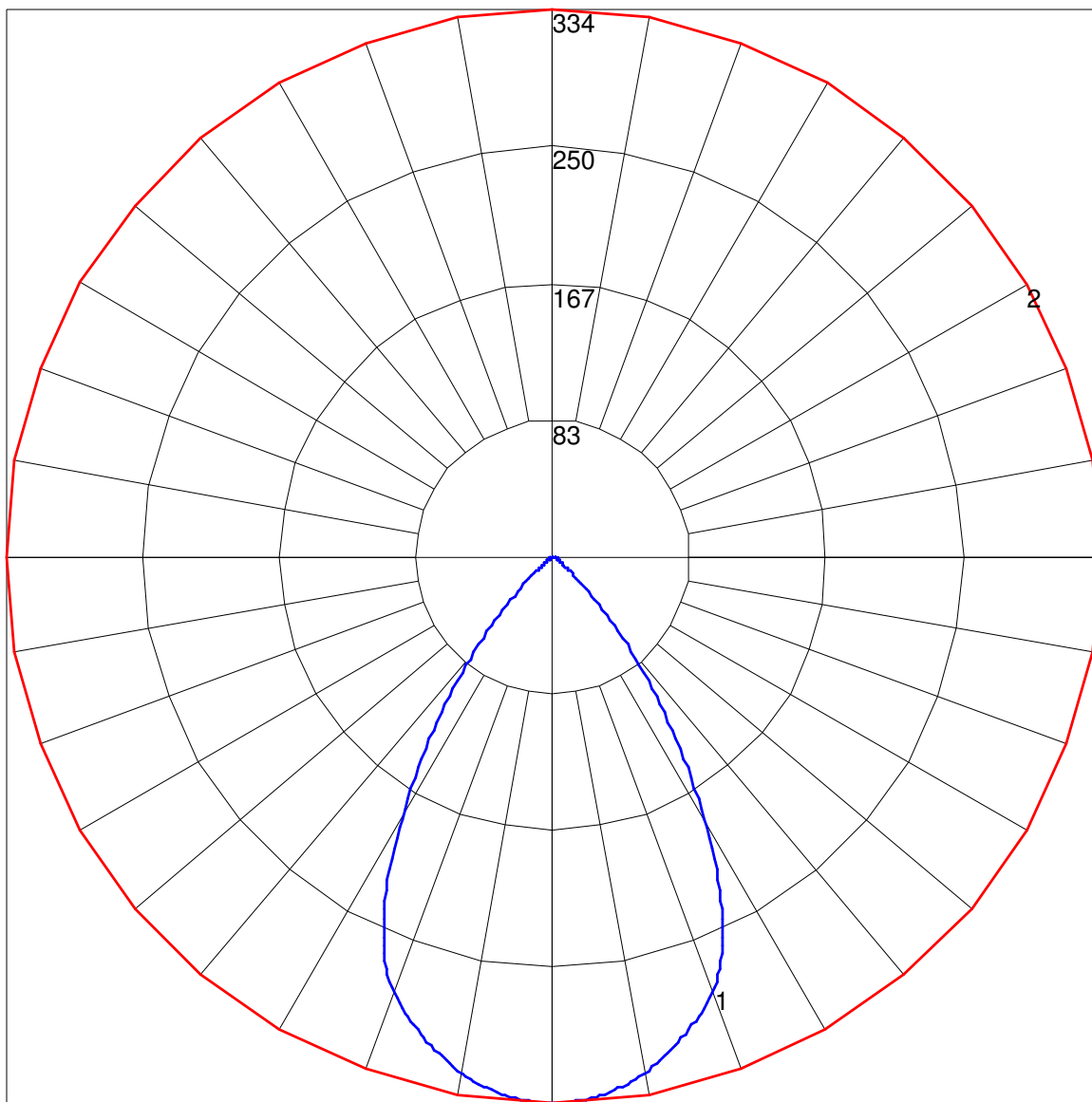
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	102	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 = 333.66 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.)