

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 4LDR-L10-935-CS-DIM-UNV\_.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] GEN FROM 4792018053.01  
[TESTLAB] UL, LLC  
[ISSUE DATE] 2025-12-10  
[TEST DATE] 11/12/2025  
[MANUFAC] WILLIAMS INDOOR  
[OTHER] H.E. WILLIAMS, INC.  
[LUMCAT] 4LDR-L10-935-CS-DIM-UNV  
[LUMINAIRE] 4" recessed downlight with clear semi-specular finish refl  
[MORE] ector 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	844
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	91
Total Luminaire Watts	9.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.96
Spacing Criterion (90-270)	0.96
Spacing Criterion (Diagonal)	0.96
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	18361	18361	18361
55	5714	5714	5714
65	222	222	222
75	88	88	88
85	174	174	174

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CANDELA TABULATION

	<u>0</u>
0.0	775.177
0.5	775.177
1.0	775.177
1.5	775.437
2.0	775.697
2.5	775.957
3.0	776.737
3.5	777.258
4.0	777.258
4.5	777.778
5.0	778.038
5.5	777.778
6.0	776.998
6.5	776.217
7.0	774.656
7.5	772.315
8.0	769.974
8.5	767.373
9.0	763.991
9.5	760.350
10.0	756.187
10.5	751.505
11.0	746.563
11.5	740.840
12.0	734.857
12.5	728.614
13.0	722.111
13.5	715.348
14.0	708.324
14.5	700.781
15.0	692.977
15.5	684.913
16.0	676.589
16.5	668.525
17.0	660.461
17.5	652.397
18.0	644.593
18.5	636.529
19.0	628.726
19.5	621.442
20.0	613.638
20.5	606.355
21.0	598.811
21.5	591.267
22.0	583.724
22.5	575.920
23.0	567.856
23.5	559.532
24.0	550.948
24.5	542.103
25.0	532.999
25.5	523.634
26.0	514.010
26.5	503.865

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**CANDELA TABULATION - (Cont.)**

27.0	493.720
27.5	483.315
28.0	472.390
28.5	461.464
29.0	450.539
29.5	439.354
30.0	427.908
30.5	416.723
31.0	405.277
31.5	393.831
32.0	382.646
32.5	371.461
33.0	360.275
33.5	349.350
34.0	338.424
34.5	328.019
35.0	317.614
35.5	307.730
36.0	297.064
36.5	286.659
37.0	276.254
37.5	266.109
38.0	256.146
38.5	246.210
39.0	236.403
39.5	226.752
40.0	217.258
40.5	207.919
41.0	198.737
41.5	189.788
42.0	180.996
42.5	172.464
43.0	164.140
43.5	156.050
44.0	148.272
44.5	140.650
45.0	133.341
45.5	126.265
46.0	119.476
46.5	112.947
47.0	106.678
47.5	100.669
48.0	94.894
48.5	89.379
49.0	84.073
49.5	78.974
50.0	74.084
50.5	69.428
51.0	64.928
51.5	60.609
52.0	56.421
52.5	52.389
53.0	48.514
53.5	44.690
54.0	40.996
54.5	37.328

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**CANDELA TABULATION - (Cont.)**

55.0	33.660
55.5	29.941
56.0	26.195
56.5	22.527
57.0	19.041
57.5	15.790
58.0	12.824
58.5	10.145
59.0	7.778
59.5	5.801
60.0	4.266
60.5	3.148
61.0	2.393
61.5	1.977
62.0	1.691
62.5	1.509
63.0	1.353
63.5	1.249
64.0	1.145
64.5	1.041
65.0	0.962
65.5	0.884
66.0	0.832
66.5	0.780
67.0	0.702
67.5	0.676
68.0	0.624
68.5	0.572
69.0	0.546
69.5	0.494
70.0	0.468
70.5	0.442
71.0	0.416
71.5	0.390
72.0	0.364
72.5	0.338
73.0	0.312
73.5	0.286
74.0	0.286
74.5	0.260
75.0	0.234
75.5	0.234
76.0	0.208
76.5	0.208
77.0	0.208
77.5	0.182
78.0	0.182
78.5	0.156
79.0	0.156
79.5	0.156
80.0	0.156
80.5	0.156
81.0	0.156
81.5	0.156
82.0	0.156
82.5	0.130

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CANDELA TABULATION - (Cont.)

83.0	0.156
83.5	0.156
84.0	0.156
84.5	0.156
85.0	0.156
85.5	0.156
86.0	0.156
86.5	0.156
87.0	0.156
87.5	0.182
88.0	0.182
88.5	0.182
89.0	0.182
89.5	0.156
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	266.97	N.A.	31.60
0-30	508.98	N.A.	60.30
0-40	706.80	N.A.	83.70
0-60	842.39	N.A.	99.80
0-80	843.90	N.A.	100.00
0-90	844.07	N.A.	100.00
10-90	770.44	N.A.	91.30
20-40	439.84	N.A.	52.10
20-50	544.76	N.A.	64.50
40-70	136.81	N.A.	16.20
60-80	1.50	N.A.	0.20
70-80	0.28	N.A.	0.00
80-90	0.17	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	844.07	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	73.63
10-20	193.34
20-30	242.01
30-40	197.82
40-50	104.92
50-60	30.66
60-70	1.22
70-80	0.28
80-90	0.17
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	108	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93
2	107	102	97	94	105	100	96	93	97	93	91	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	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66
6	85	75	69	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61
7	80	70	64	59	79	69	63	59	68	62	58	67	62	58	66	61	58	56
8	76	65	59	55	74	65	59	54	64	58	54	63	58	54	62	57	54	52
9	72	61	55	51	71	61	55	51	60	54	50	59	54	50	58	53	50	49
10	68	58	51	47	67	57	51	47	56	51	47	56	51	47	55	50	47	45

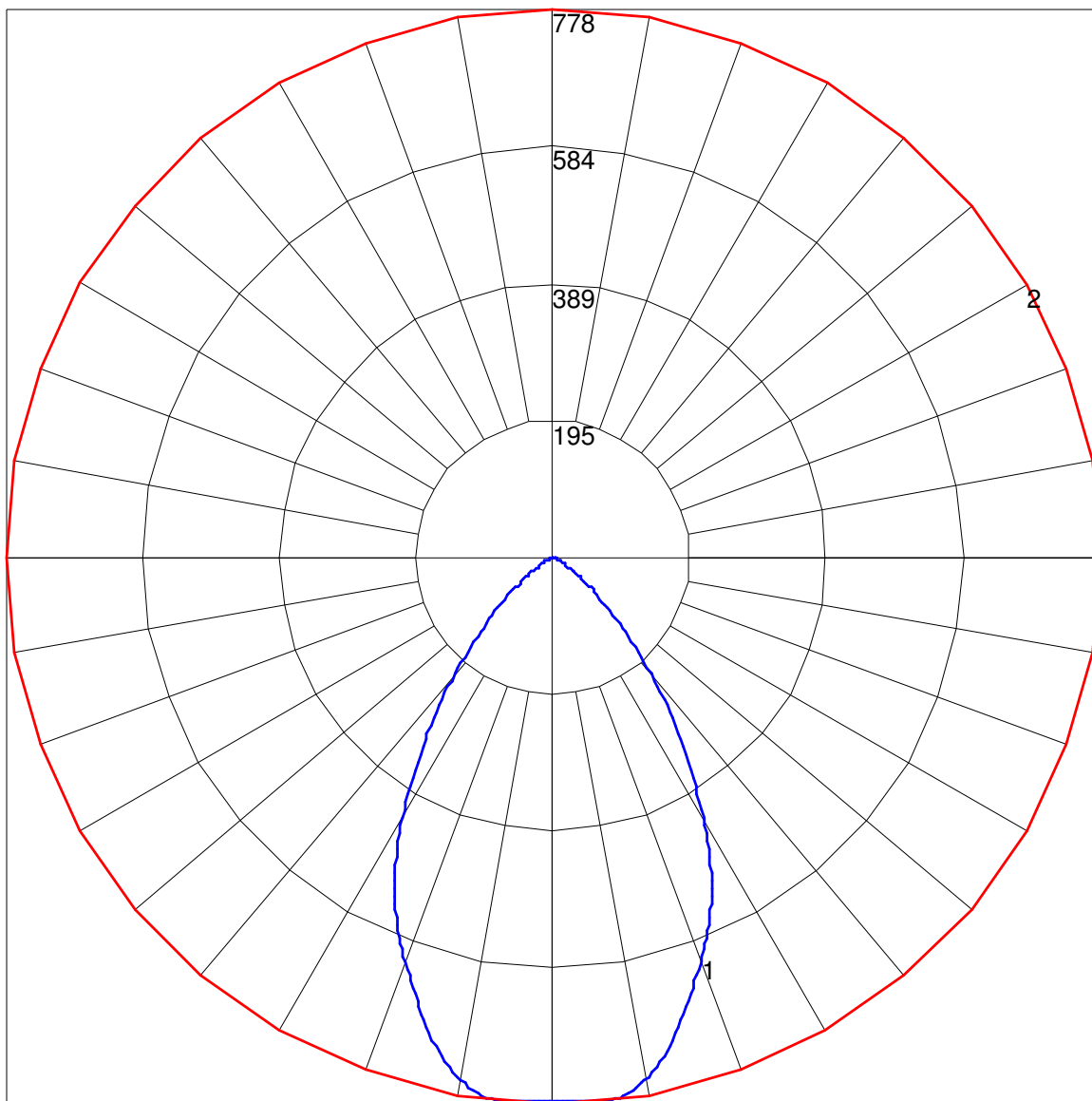
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**UGR TABLE - CORRECTED**

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					UGR Viewed Endwise				
X=2H	Y=2H	7.6	8.7	8.0	9.0	9.3	7.6	8.7	8.0	9.0	9.3
	3H	7.5	8.4	7.9	8.7	9.1	7.5	8.4	7.9	8.7	9.1
	4H	7.4	8.3	7.8	8.6	9.0	7.4	8.3	7.8	8.6	9.0
	6H	7.3	8.1	7.7	8.5	8.8	7.3	8.1	7.7	8.5	8.8
	8H	7.2	8.0	7.7	8.4	8.8	7.2	8.0	7.7	8.4	8.8
	12H	7.2	7.9	7.6	8.3	8.7	7.2	7.9	7.6	8.3	8.7
4H	2H	7.4	8.2	7.8	8.6	9.0	7.4	8.2	7.8	8.6	9.0
	3H	7.2	7.9	7.6	8.3	8.7	7.2	7.9	7.6	8.3	8.7
	4H	7.1	7.7	7.5	8.1	8.6	7.1	7.7	7.5	8.1	8.6
	6H	7.0	7.5	7.5	8.0	8.4	7.0	7.5	7.5	8.0	8.4
	8H	6.9	7.4	7.4	7.9	8.3	6.9	7.4	7.4	7.9	8.3
	12H	6.9	7.3	7.4	7.8	8.3	6.9	7.3	7.4	7.8	8.3
8H	4H	6.9	7.4	7.4	7.9	8.3	6.9	7.4	7.4	7.9	8.3
	6H	6.8	7.2	7.3	7.7	8.2	6.8	7.2	7.3	7.7	8.2
	8H	6.7	7.1	7.3	7.6	8.1	6.7	7.1	7.3	7.6	8.1
	12H	6.7	7.0	7.2	7.5	8.1	6.7	7.0	7.2	7.5	8.1
12H	4H	6.9	7.3	7.3	7.8	8.3	6.9	7.3	7.3	7.8	8.3
	6H	6.7	7.1	7.3	7.6	8.1	6.7	7.1	7.3	7.6	8.1
	8H	6.7	7.0	7.2	7.5	8.1	6.7	7.0	7.2	7.5	8.1

Maximum UGR = 9.3

POLAR GRAPH



Maximum Candela = 778.038 Located At Horizontal Angle = 0, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)