

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4LDR-L15-935-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-L15-935-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	503
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	36
Total Luminaire Watts	13.8
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	6308	6308	6308
55	817	817	817
65	283	283	283
75	123	123	123
85	80	80	80

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CANDELA TABULATION

	<u>0</u>
0.0	502.980
0.5	502.980
1.0	502.980
1.5	502.618
2.0	502.256
2.5	501.894
3.0	501.533
3.5	500.447
4.0	499.723
4.5	499.000
5.0	497.914
5.5	497.190
6.0	495.743
6.5	494.657
7.0	493.210
7.5	491.762
8.0	490.315
8.5	488.506
9.0	486.696
9.5	484.887
10.0	483.078
10.5	480.907
11.0	478.736
11.5	476.564
12.0	474.031
12.5	471.860
13.0	468.966
13.5	466.794
14.0	463.900
14.5	461.367
15.0	458.472
15.5	455.577
16.0	453.044
16.5	450.149
17.0	447.978
17.5	445.083
18.0	442.188
18.5	439.293
19.0	435.675
19.5	431.694
20.0	427.714
20.5	423.733
21.0	419.029
21.5	414.325
22.0	408.897
22.5	403.470
23.0	397.318
23.5	390.805
24.0	383.567
24.5	375.968
25.0	368.370
25.5	360.409
26.0	352.086
26.5	343.510

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**CANDELA TABULATION - (Cont.)**

27.0	334.717
27.5	325.670
28.0	316.407
28.5	306.999
29.0	297.554
29.5	288.001
30.0	278.484
30.5	268.895
31.0	259.270
31.5	249.681
32.0	240.164
32.5	230.719
33.0	221.384
33.5	212.229
34.0	203.218
34.5	194.281
35.0	185.560
35.5	176.984
36.0	168.553
36.5	160.194
37.0	152.052
37.5	144.019
38.0	136.166
38.5	128.459
39.0	120.860
39.5	113.370
40.0	106.096
40.5	99.004
41.0	92.092
41.5	85.398
42.0	78.921
42.5	72.661
43.0	66.726
43.5	61.045
44.0	55.653
44.5	50.587
45.0	45.811
45.5	41.324
46.0	37.163
46.5	33.327
47.0	29.817
47.5	26.596
48.0	23.665
48.5	20.988
49.0	18.599
49.5	16.464
50.0	14.547
50.5	12.846
51.0	11.362
51.5	10.096
52.0	8.974
52.5	7.997
53.0	7.165
53.5	6.441
54.0	5.826
54.5	5.283

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CANDELA TABULATION - (Cont.)

55.0	4.813
55.5	4.451
56.0	4.125
56.5	3.872
57.0	3.655
57.5	3.438
58.0	3.221
58.5	3.003
59.0	2.822
59.5	2.605
60.0	2.461
60.5	2.280
61.0	2.135
61.5	1.990
62.0	1.845
62.5	1.737
63.0	1.628
63.5	1.520
64.0	1.411
64.5	1.339
65.0	1.230
65.5	1.158
66.0	1.086
66.5	1.013
67.0	0.941
67.5	0.905
68.0	0.832
68.5	0.796
69.0	0.724
69.5	0.688
70.0	0.651
70.5	0.615
71.0	0.579
71.5	0.543
72.0	0.507
72.5	0.470
73.0	0.434
73.5	0.434
74.0	0.398
74.5	0.362
75.0	0.326
75.5	0.326
76.0	0.289
76.5	0.289
77.0	0.253
77.5	0.253
78.0	0.217
78.5	0.217
79.0	0.217
79.5	0.181
80.0	0.181
80.5	0.145
81.0	0.145
81.5	0.145
82.0	0.145
82.5	0.109

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CANDELA TABULATION - (Cont.)

83.0	0.109
83.5	0.109
84.0	0.072
84.5	0.072
85.0	0.072
85.5	0.072
86.0	0.072
86.5	0.036
87.0	0.036
87.5	0.036
88.0	0.036
88.5	0.036
89.0	0.036
89.5	0.036
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
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120.0	0.000
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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	176.03	N.A.	35.00
0-30	341.94	N.A.	68.00
0-40	457.74	N.A.	91.00
0-60	501.36	N.A.	99.60
0-80	503.06	N.A.	100.00
0-90	503.15	N.A.	100.00
10-90	456.09	N.A.	90.60
20-40	281.71	N.A.	56.00
20-50	320.02	N.A.	63.60
40-70	44.94	N.A.	8.90
60-80	1.70	N.A.	0.30
70-80	0.39	N.A.	0.10
80-90	0.09	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	503.15	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	47.06
10-20	128.96
20-30	165.92
30-40	115.80
40-50	38.31
50-60	5.31
60-70	1.32
70-80	0.39
80-90	0.09
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	96	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80
4	97	89	83	79	95	88	83	79	86	81	78	84	80	77	82	79	76	74
5	92	83	77	73	90	82	77	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	62	69	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	54	50	49

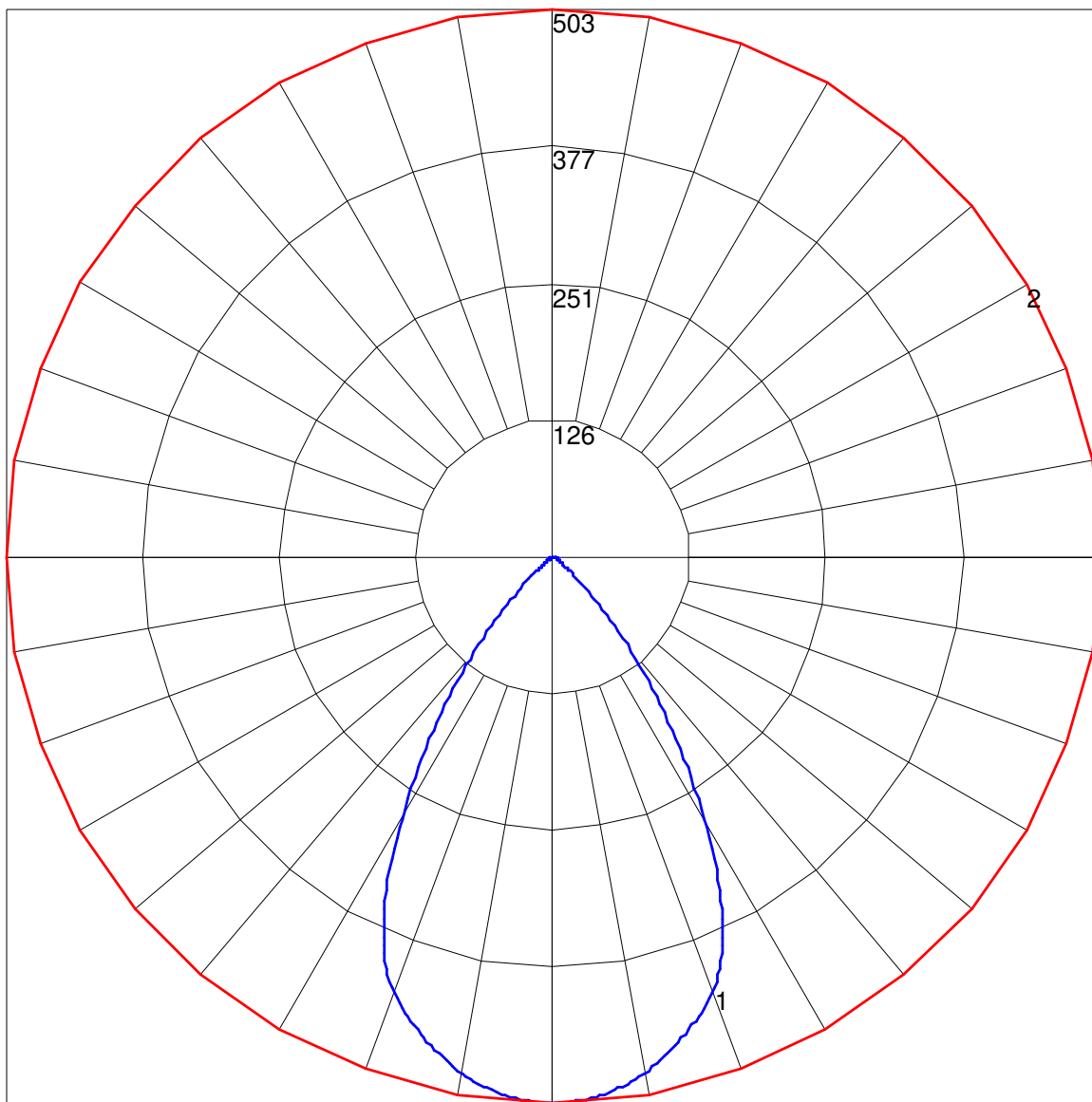
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**UGR TABLE - CORRECTED**

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	0.0	0.3	0.0	0.6	0.9	0.0	0.3	0.0	0.6	0.9
	3H	0.0	0.3	0.0	0.7	1.0	0.0	0.3	0.0	0.7	1.0
	4H	0.0	0.2	0.0	0.6	1.0	0.0	0.2	0.0	0.6	1.0
	6H	0.0	0.1	0.0	0.5	0.9	0.0	0.1	0.0	0.5	0.9
	8H	0.0	0.0	0.0	0.4	0.8	0.0	0.0	0.0	0.4	0.8
	12H	0.0	0.0	0.0	0.4	0.8	0.0	0.0	0.0	0.4	0.8
4H	2H	0.0	0.0	0.0	0.4	0.8	0.0	0.0	0.0	0.4	0.8
	3H	0.0	0.1	0.0	0.5	0.9	0.0	0.1	0.0	0.5	0.9
	4H	0.0	0.0	0.0	0.5	0.9	0.0	0.0	0.0	0.5	0.9
	6H	0.0	0.0	0.0	0.4	0.9	0.0	0.0	0.0	0.4	0.9
	8H	0.0	0.0	0.0	0.3	0.8	0.0	0.0	0.0	0.3	0.8
	12H	0.0	0.0	0.0	0.2	0.7	0.0	0.0	0.0	0.2	0.7
8H	4H	0.0	0.0	0.0	0.3	0.7	0.0	0.0	0.0	0.3	0.7
	6H	0.0	0.0	0.0	0.2	0.7	0.0	0.0	0.0	0.2	0.7
	8H	0.0	0.0	0.0	0.2	0.7	0.0	0.0	0.0	0.2	0.7
	12H	0.0	0.0	0.0	0.1	0.7	0.0	0.0	0.0	0.1	0.7
12H	4H	0.0	0.0	0.0	0.2	0.7	0.0	0.0	0.0	0.2	0.7
	6H	0.0	0.0	0.0	0.1	0.6	0.0	0.0	0.0	0.1	0.6
	8H	0.0	0.0	0.0	0.1	0.6	0.0	0.0	0.0	0.1	0.6

Maximum UGR = 1.0

POLAR GRAPH



Maximum Candela = 502.98 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.)