

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 4LDR-L10-835-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-L10-835-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	1017
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
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	22121	22121	22121
55	6884	6884	6884
65	267	267	267
75	106	106	106
85	210	210	210

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CANDELA TABULATION

	<u>0</u>
0.0	933.947
0.5	933.947
1.0	933.947
1.5	934.261
2.0	934.574
2.5	934.888
3.0	935.828
3.5	936.455
4.0	936.455
4.5	937.082
5.0	937.395
5.5	937.082
6.0	936.141
6.5	935.201
7.0	933.321
7.5	930.500
8.0	927.679
8.5	924.545
9.0	920.471
9.5	916.083
10.0	911.069
10.5	905.428
11.0	899.473
11.5	892.578
12.0	885.370
12.5	877.848
13.0	870.013
13.5	861.864
14.0	853.402
14.5	844.314
15.0	834.911
15.5	825.196
16.0	815.167
16.5	805.451
17.0	795.736
17.5	786.020
18.0	776.618
18.5	766.902
19.0	757.500
19.5	748.725
20.0	739.323
20.5	730.547
21.0	721.459
21.5	712.370
22.0	703.281
22.5	693.879
23.0	684.164
23.5	674.135
24.0	663.792
24.5	653.136
25.0	642.167
25.5	630.885
26.0	619.289
26.5	607.066

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**CANDELA TABULATION - (Cont.)**

27.0	594.843
27.5	582.307
28.0	569.144
28.5	555.981
29.0	542.818
29.5	529.341
30.0	515.552
30.5	502.075
31.0	488.285
31.5	474.495
32.0	461.019
32.5	447.543
33.0	434.066
33.5	420.903
34.0	407.740
34.5	395.204
35.0	382.668
35.5	370.758
36.0	357.909
36.5	345.373
37.0	332.836
37.5	320.614
38.0	308.610
38.5	296.638
39.0	284.823
39.5	273.195
40.0	261.756
40.5	250.505
41.0	239.442
41.5	228.660
42.0	218.067
42.5	207.788
43.0	197.759
43.5	188.012
44.0	178.641
44.5	169.458
45.0	160.651
45.5	152.127
46.0	143.947
46.5	136.081
47.0	128.527
47.5	121.288
48.0	114.330
48.5	107.686
49.0	101.293
49.5	95.150
50.0	89.258
50.5	83.648
51.0	78.226
51.5	73.023
52.0	67.978
52.5	63.120
53.0	58.450
53.5	53.843
54.0	49.393
54.5	44.974

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CANDELA TABULATION - (Cont.)

55.0	40.555
55.5	36.073
56.0	31.560
56.5	27.141
57.0	22.941
57.5	19.024
58.0	15.451
58.5	12.223
59.0	9.371
59.5	6.989
60.0	5.140
60.5	3.792
61.0	2.883
61.5	2.382
62.0	2.037
62.5	1.818
63.0	1.630
63.5	1.504
64.0	1.379
64.5	1.254
65.0	1.160
65.5	1.066
66.0	1.003
66.5	0.940
67.0	0.846
67.5	0.815
68.0	0.752
68.5	0.689
69.0	0.658
69.5	0.595
70.0	0.564
70.5	0.533
71.0	0.501
71.5	0.470
72.0	0.439
72.5	0.407
73.0	0.376
73.5	0.345
74.0	0.345
74.5	0.313
75.0	0.282
75.5	0.282
76.0	0.251
76.5	0.251
77.0	0.251
77.5	0.219
78.0	0.219
78.5	0.188
79.0	0.188
79.5	0.188
80.0	0.188
80.5	0.188
81.0	0.188
81.5	0.188
82.0	0.188
82.5	0.157

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CANDELA TABULATION - (Cont.)

83.0	0.188
83.5	0.188
84.0	0.188
84.5	0.188
85.0	0.188
85.5	0.188
86.0	0.188
86.5	0.188
87.0	0.188
87.5	0.219
88.0	0.219
88.5	0.219
89.0	0.219
89.5	0.188
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
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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
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146.5	0.000
147.0	0.000
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152.0	0.000
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153.0	0.000
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158.0	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	321.65	N.A.	31.60
0-30	613.23	N.A.	60.30
0-40	851.57	N.A.	83.70
0-60	1014.93	N.A.	99.80
0-80	1016.74	N.A.	100.00
0-90	1016.95	N.A.	100.00
10-90	928.24	N.A.	91.30
20-40	529.92	N.A.	52.10
20-50	656.34	N.A.	64.50
40-70	164.83	N.A.	16.20
60-80	1.81	N.A.	0.20
70-80	0.34	N.A.	0.00
80-90	0.21	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	1016.95	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	88.71
10-20	232.94
20-30	291.58
30-40	238.34
40-50	126.42
50-60	36.95
60-70	1.47
70-80	0.34
80-90	0.21
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	107	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**

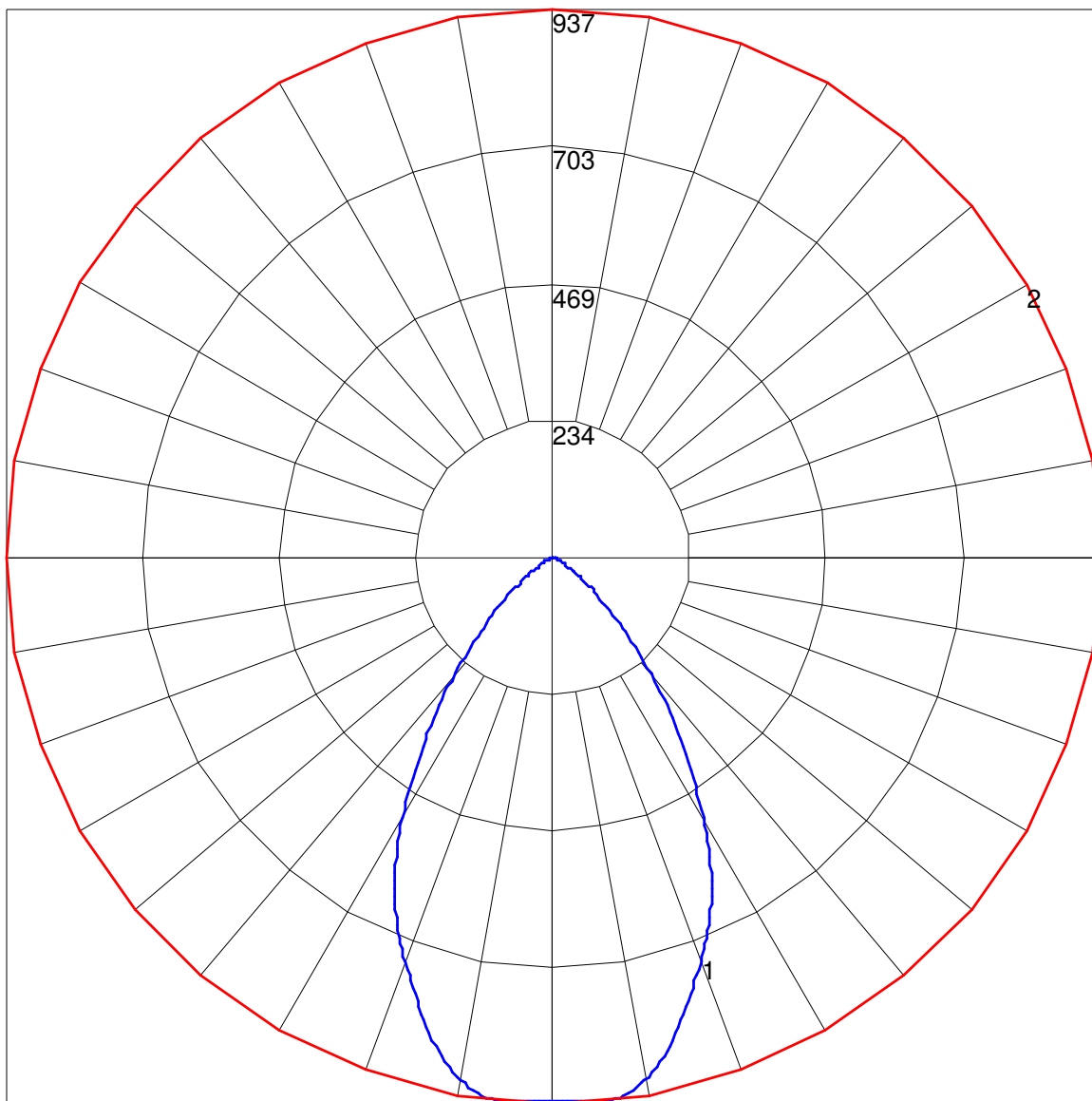
Reflectances

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	8.3	9.4	8.7	9.7	10.0	8.3	9.4	8.7	9.7	10.0
	3H	8.2	9.1	8.6	9.4	9.8	8.2	9.1	8.6	9.4	9.8
	4H	8.1	9.0	8.5	9.3	9.7	8.1	9.0	8.5	9.3	9.7
	6H	8.0	8.8	8.4	9.1	9.5	8.0	8.8	8.4	9.1	9.5
	8H	7.9	8.7	8.4	9.1	9.5	7.9	8.7	8.4	9.1	9.5
	12H	7.9	8.6	8.3	9.0	9.4	7.9	8.6	8.3	9.0	9.4
4H	2H	8.1	8.9	8.5	9.3	9.7	8.1	8.9	8.5	9.3	9.7
	3H	7.9	8.6	8.3	9.0	9.4	7.9	8.6	8.3	9.0	9.4
	4H	7.8	8.4	8.2	8.8	9.3	7.8	8.4	8.2	8.8	9.3
	6H	7.7	8.2	8.2	8.7	9.1	7.7	8.2	8.2	8.7	9.1
	8H	7.6	8.1	8.1	8.6	9.0	7.6	8.1	8.1	8.6	9.0
	12H	7.6	8.0	8.1	8.5	9.0	7.6	8.0	8.1	8.5	9.0
8H	4H	7.6	8.1	8.1	8.6	9.0	7.6	8.1	8.1	8.6	9.0
	6H	7.5	7.9	8.0	8.4	8.9	7.5	7.9	8.0	8.4	8.9
	8H	7.4	7.8	8.0	8.3	8.8	7.4	7.8	8.0	8.3	8.8
	12H	7.4	7.7	7.9	8.2	8.8	7.4	7.7	7.9	8.2	8.8
12H	4H	7.6	8.0	8.0	8.5	9.0	7.6	8.0	8.0	8.5	9.0
	6H	7.4	7.8	8.0	8.3	8.8	7.4	7.8	8.0	8.3	8.8
	8H	7.4	7.7	7.9	8.2	8.8	7.4	7.7	7.9	8.2	8.8

Maximum UGR = 10.0

POLAR GRAPH



Maximum Candela = 937.395 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.)