

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4LDR-L30-935-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-L30-935-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	990
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	38
Total Luminaire Watts	26
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	12408	12408	12408
55	1607	1607	1607
65	558	558	558
75	241	241	241
85	159	159	159

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CANDELA TABULATION

	<u>0</u>
0.0	989.360
0.5	989.360
1.0	989.360
1.5	988.648
2.0	987.937
2.5	987.225
3.0	986.513
3.5	984.378
4.0	982.954
4.5	981.531
5.0	979.395
5.5	977.972
6.0	975.125
6.5	972.989
7.0	970.142
7.5	967.295
8.0	964.448
8.5	960.889
9.0	957.330
9.5	953.772
10.0	950.213
10.5	945.942
11.0	941.671
11.5	937.401
12.0	932.418
12.5	928.148
13.0	922.454
13.5	918.183
14.0	912.489
14.5	907.507
15.0	901.812
15.5	896.118
16.0	891.136
16.5	885.442
17.0	881.171
17.5	875.477
18.0	869.783
18.5	864.089
19.0	856.971
19.5	849.141
20.0	841.312
20.5	833.482
21.0	824.229
21.5	814.976
22.0	804.300
22.5	793.623
23.0	781.523
23.5	768.711
24.0	754.476
24.5	739.529
25.0	724.582
25.5	708.923
26.0	692.552
26.5	675.683

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**CANDELA TABULATION - (Cont.)**

27.0	658.387
27.5	640.593
28.0	622.372
28.5	603.866
29.0	585.288
29.5	566.498
30.0	547.778
30.5	528.916
31.0	509.983
31.5	491.121
32.0	472.402
32.5	453.824
33.0	435.461
33.5	417.453
34.0	399.730
34.5	382.149
35.0	364.996
35.5	348.127
36.0	331.542
36.5	315.100
37.0	299.086
37.5	283.284
38.0	267.839
38.5	252.678
39.0	237.731
39.5	222.997
40.0	208.691
40.5	194.740
41.0	181.145
41.5	167.978
42.0	155.237
42.5	142.923
43.0	131.250
43.5	120.076
44.0	109.470
44.5	99.505
45.0	90.110
45.5	81.284
46.0	73.099
46.5	65.554
47.0	58.650
47.5	52.315
48.0	46.550
48.5	41.283
49.0	36.585
49.5	32.386
50.0	28.613
50.5	25.268
51.0	22.350
51.5	19.858
52.0	17.652
52.5	15.730
53.0	14.093
53.5	12.670
54.0	11.459
54.5	10.392

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**CANDELA TABULATION - (Cont.)**

55.0	9.467
55.5	8.755
56.0	8.114
56.5	7.616
57.0	7.189
57.5	6.762
58.0	6.335
58.5	5.908
59.0	5.552
59.5	5.125
60.0	4.840
60.5	4.484
61.0	4.199
61.5	3.915
62.0	3.630
62.5	3.416
63.0	3.203
63.5	2.989
64.0	2.776
64.5	2.634
65.0	2.420
65.5	2.278
66.0	2.135
66.5	1.993
67.0	1.851
67.5	1.779
68.0	1.637
68.5	1.566
69.0	1.424
69.5	1.352
70.0	1.281
70.5	1.210
71.0	1.139
71.5	1.068
72.0	0.996
72.5	0.925
73.0	0.854
73.5	0.854
74.0	0.783
74.5	0.712
75.0	0.641
75.5	0.641
76.0	0.569
76.5	0.569
77.0	0.498
77.5	0.498
78.0	0.427
78.5	0.427
79.0	0.427
79.5	0.356
80.0	0.356
80.5	0.285
81.0	0.285
81.5	0.285
82.0	0.285
82.5	0.214

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CANDELA TABULATION - (Cont.)

83.0	0.214
83.5	0.214
84.0	0.142
84.5	0.142
85.0	0.142
85.5	0.142
86.0	0.142
86.5	0.071
87.0	0.071
87.5	0.071
88.0	0.071
88.5	0.071
89.0	0.071
89.5	0.071
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
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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	346.25	N.A.	35.00
0-30	672.60	N.A.	68.00
0-40	900.37	N.A.	91.00
0-60	986.17	N.A.	99.60
0-80	989.52	N.A.	100.00
0-90	989.70	N.A.	100.00
10-90	897.13	N.A.	90.60
20-40	554.13	N.A.	56.00
20-50	629.49	N.A.	63.60
40-70	88.39	N.A.	8.90
60-80	3.35	N.A.	0.30
70-80	0.76	N.A.	0.10
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	989.70	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	92.57
10-20	253.67
20-30	326.36
30-40	227.77
40-50	75.36
50-60	10.44
60-70	2.59
70-80	0.76
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	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

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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

X=2H	Y=2H	1.7	2.7	2.1	3.0	3.3	1.7	2.7	2.1	3.0	3.3
	3H	1.8	2.7	2.2	3.1	3.4	1.8	2.7	2.2	3.1	3.4
	4H	1.8	2.6	2.2	3.0	3.4	1.8	2.6	2.2	3.0	3.4
	6H	1.8	2.5	2.2	2.9	3.3	1.8	2.5	2.2	2.9	3.3
	8H	1.7	2.4	2.2	2.8	3.2	1.7	2.4	2.2	2.8	3.2
	12H	1.7	2.4	2.1	2.7	3.2	1.7	2.4	2.1	2.7	3.2

UGR Viewed Endwise

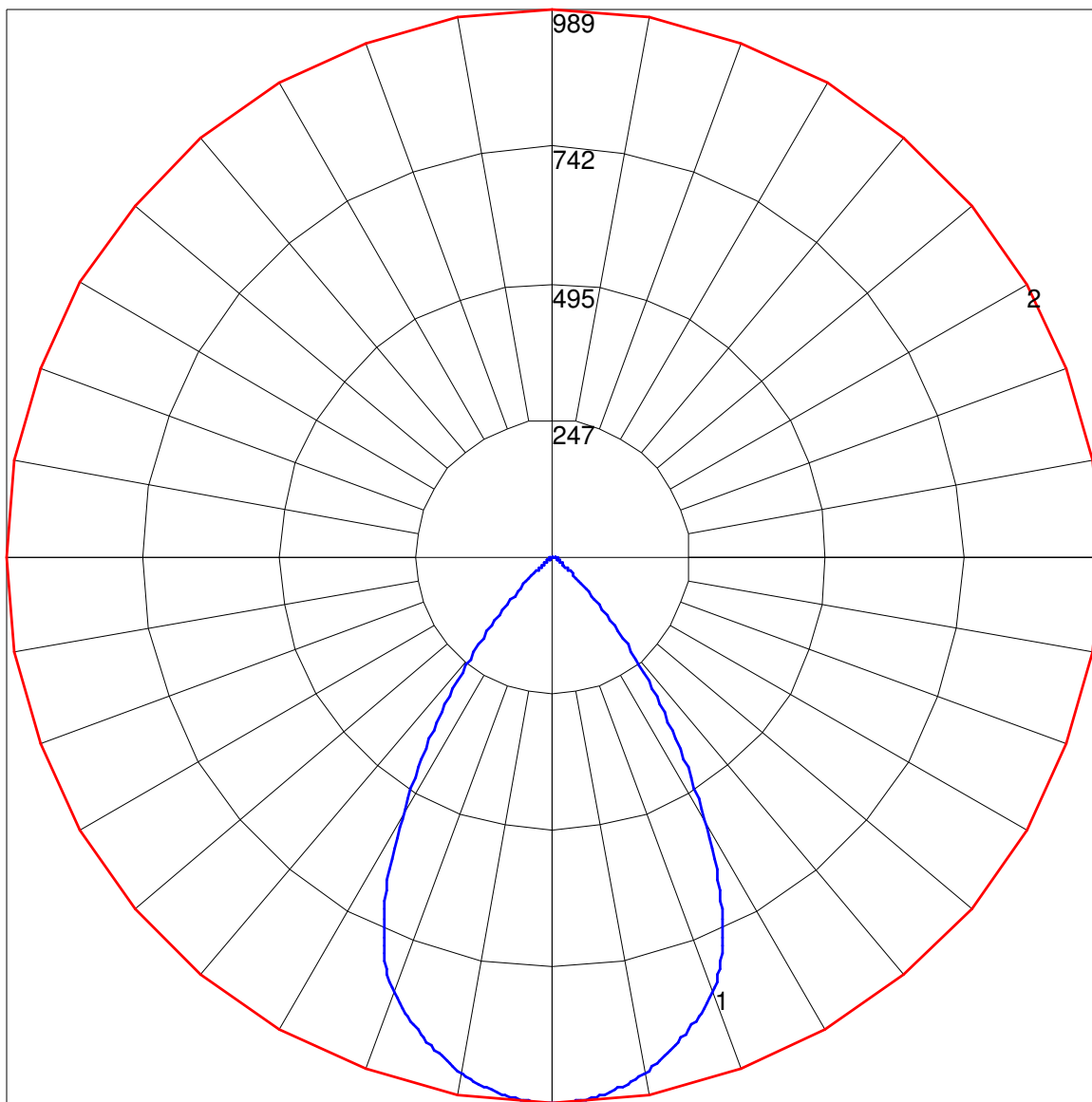
4H	2H	1.6	2.4	2.0	2.8	3.2	1.6	2.4	2.0	2.8	3.2
	3H	1.9	2.5	2.3	2.9	3.3	1.9	2.5	2.3	2.9	3.3
	4H	1.9	2.4	2.3	2.9	3.3	1.9	2.4	2.3	2.9	3.3
	6H	1.8	2.3	2.3	2.8	3.3	1.8	2.3	2.3	2.8	3.3
	8H	1.8	2.3	2.3	2.7	3.2	1.8	2.3	2.3	2.7	3.2
	12H	1.8	2.1	2.3	2.6	3.1	1.8	2.1	2.3	2.6	3.1

8H	4H	1.7	2.2	2.2	2.7	3.1	1.7	2.2	2.2	2.7	3.1
	6H	1.7	2.1	2.3	2.6	3.1	1.7	2.1	2.3	2.6	3.1
	8H	1.7	2.0	2.3	2.6	3.1	1.7	2.0	2.3	2.6	3.1
	12H	1.7	2.0	2.2	2.5	3.0	1.7	2.0	2.2	2.5	3.0

12H	4H	1.7	2.1	2.2	2.6	3.0	1.7	2.1	2.2	2.6	3.0
	6H	1.7	2.0	2.2	2.5	3.0	1.7	2.0	2.2	2.5	3.0
	8H	1.7	2.0	2.2	2.5	3.0	1.7	2.0	2.2	2.5	3.0

Maximum UGR = 3.4

POLAR GRAPH



Maximum Candela = 989.36 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.)