

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4LDR-L15-930-WH-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] GEN FROM 4792018053.02  
[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-L15-930-WH-DIM-UNV  
[LUMINAIRE] 4" recessed downlight with textured white 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	1068
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	77
Total Luminaire Watts	13.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.04
Spacing Criterion (90-270)	1.04
Spacing Criterion (Diagonal)	1.04
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	25515	25515	25515
55	17151	17151	17151
65	12919	12919	12919
75	9810	9810	9810
85	7176	7176	7176

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CANDELA TABULATION

	<u>0</u>
0.0	728.041
0.5	728.426
1.0	728.041
1.5	727.657
2.0	727.272
2.5	726.888
3.0	726.118
3.5	725.349
4.0	724.580
4.5	723.426
5.0	722.657
5.5	721.119
6.0	720.349
6.5	718.426
7.0	716.888
7.5	714.965
8.0	713.427
8.5	711.504
9.0	709.196
9.5	706.889
10.0	704.966
10.5	702.658
11.0	700.350
11.5	697.658
12.0	694.581
12.5	691.889
13.0	689.197
13.5	685.736
14.0	682.659
14.5	679.582
15.0	676.121
15.5	672.659
16.0	668.813
16.5	665.352
17.0	661.506
17.5	657.276
18.0	653.430
18.5	649.199
19.0	644.584
19.5	639.969
20.0	634.969
20.5	629.969
21.0	624.585
21.5	618.431
22.0	612.278
22.5	605.740
23.0	598.817
23.5	591.125
24.0	582.664
24.5	574.587
25.0	565.357
25.5	556.127
26.0	547.281
26.5	537.281

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**CANDELA TABULATION - (Cont.)**

27.0	527.282
27.5	516.513
28.0	506.129
28.5	495.745
29.0	485.361
29.5	475.746
30.0	465.746
30.5	454.978
31.0	444.209
31.5	433.056
32.0	422.287
32.5	411.518
33.0	400.750
33.5	390.366
34.0	379.751
34.5	369.405
35.0	359.213
35.5	349.098
36.0	339.137
36.5	329.253
37.0	319.523
37.5	309.946
38.0	300.524
38.5	291.101
39.0	281.909
39.5	272.794
40.0	263.872
40.5	255.026
41.0	246.411
41.5	237.911
42.0	229.720
42.5	221.643
43.0	213.874
43.5	206.336
44.0	199.029
44.5	192.029
45.0	185.299
45.5	178.837
46.0	172.684
46.5	166.838
47.0	161.261
47.5	155.992
48.0	150.993
48.5	146.224
49.0	141.724
49.5	137.416
50.0	133.378
50.5	129.494
51.0	125.840
51.5	122.340
52.0	118.994
52.5	115.764
53.0	112.648
53.5	109.610
54.0	106.687
54.5	103.841

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CANDELA TABULATION - (Cont.)

55.0	101.034
55.5	98.380
56.0	95.841
56.5	93.342
57.0	90.842
57.5	88.380
58.0	85.919
58.5	83.457
59.0	81.073
59.5	78.765
60.0	76.458
60.5	74.227
61.0	71.996
61.5	69.881
62.0	67.766
62.5	65.728
63.0	63.728
63.5	61.766
64.0	59.766
64.5	57.920
65.0	56.074
65.5	54.267
66.0	52.459
66.5	50.728
67.0	49.036
67.5	47.382
68.0	45.767
68.5	44.152
69.0	42.575
69.5	41.036
70.0	39.537
70.5	38.075
71.0	36.614
71.5	35.191
72.0	33.806
72.5	32.460
73.0	31.114
73.5	29.845
74.0	28.576
74.5	27.306
75.0	26.076
75.5	24.883
76.0	23.730
76.5	22.576
77.0	21.460
77.5	20.345
78.0	19.307
78.5	18.230
79.0	17.191
79.5	16.192
80.0	15.192
80.5	14.230
81.0	13.269
81.5	12.346
82.0	11.461
82.5	10.576

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CANDELA TABULATION - (Cont.)

83.0	9.692
83.5	8.846
84.0	8.038
84.5	7.192
85.0	6.423
85.5	5.654
86.0	4.884
86.5	4.154
87.0	3.423
87.5	2.731
88.0	2.077
88.5	1.423
89.0	0.846
89.5	0.385
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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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
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148.5	0.000
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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	258.44	N.A.	24.20
0-30	515.17	N.A.	48.30
0-40	739.43	N.A.	69.30
0-60	976.33	N.A.	91.40
0-80	1060.33	N.A.	99.30
0-90	1067.69	N.A.	100.00
10-90	999.28	N.A.	93.60
20-40	480.99	N.A.	45.00
20-50	626.57	N.A.	58.70
40-70	292.95	N.A.	27.40
60-80	84.00	N.A.	7.90
70-80	27.95	N.A.	2.60
80-90	7.36	N.A.	0.70
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	1067.69	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	68.40
10-20	190.04
20-30	256.73
30-40	224.25
40-50	145.59
50-60	91.32
60-70	56.05
70-80	27.95
80-90	7.36
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	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	74	79	75	72	70
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37

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**UGR TABLE - CORRECTED**

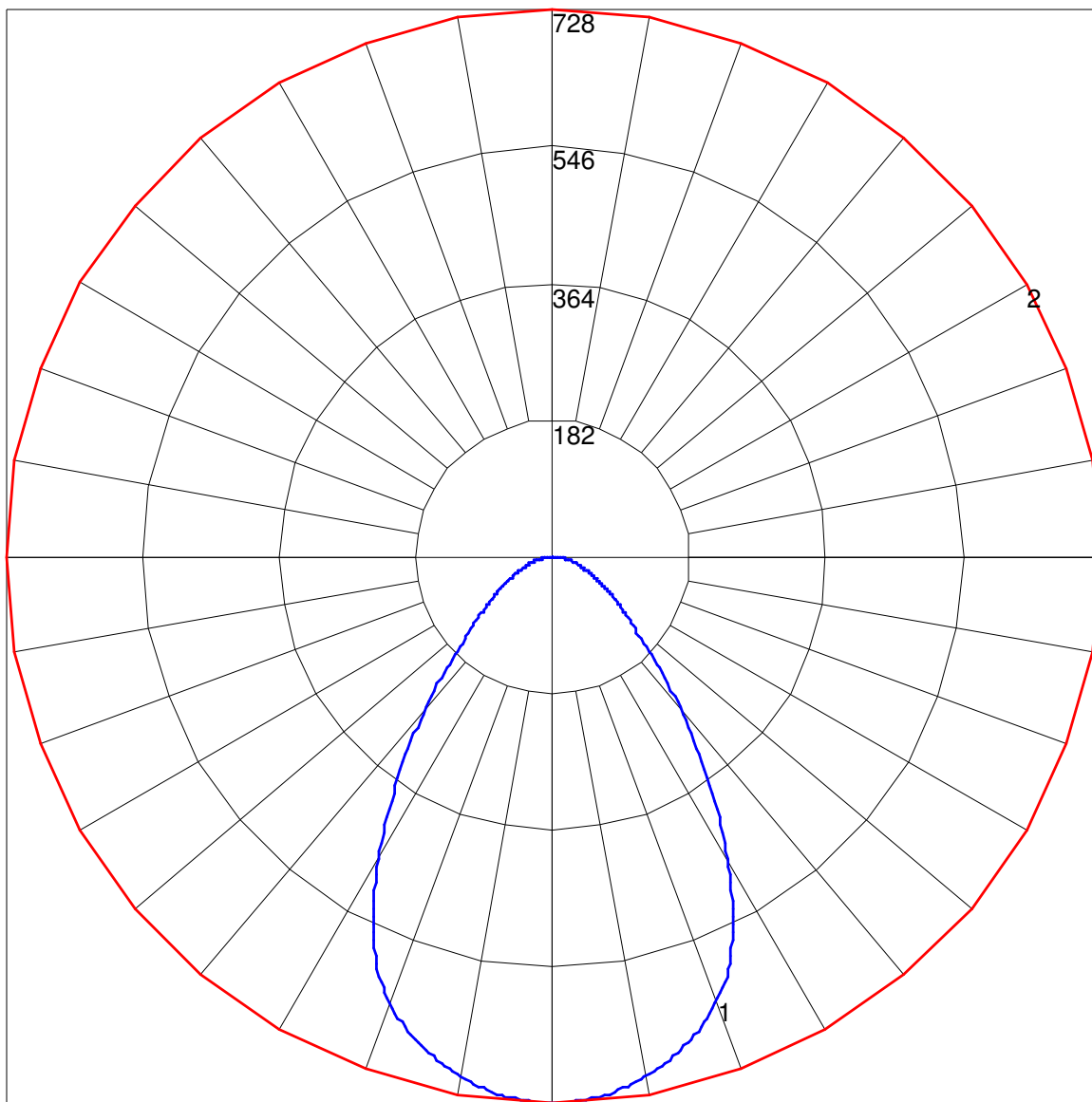
Reflectances

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	18.9	20.2	19.2	20.5	20.8	18.9	20.2	19.2	20.5	20.8
	3H	20.1	21.3	20.5	21.6	22.0	20.1	21.3	20.5	21.6	22.0
	4H	20.5	21.6	20.9	22.0	22.4	20.5	21.6	20.9	22.0	22.4
	6H	20.8	21.8	21.2	22.2	22.6	20.8	21.8	21.2	22.2	22.6
	8H	20.9	21.9	21.4	22.3	22.7	20.9	21.9	21.4	22.3	22.7
	12H	21.0	21.9	21.4	22.3	22.7	21.0	21.9	21.4	22.3	22.7
4H	2H	19.3	20.4	19.7	20.7	21.1	19.3	20.4	19.7	20.7	21.1
	3H	20.7	21.6	21.1	22.0	22.4	20.7	21.6	21.1	22.0	22.4
	4H	21.3	22.1	21.7	22.5	22.9	21.3	22.1	21.7	22.5	22.9
	6H	21.7	22.4	22.1	22.8	23.3	21.7	22.4	22.1	22.8	23.3
	8H	21.8	22.4	22.2	22.9	23.3	21.8	22.4	22.2	22.9	23.3
	12H	21.9	22.4	22.4	22.9	23.4	21.9	22.4	22.4	22.9	23.4
8H	4H	21.4	22.1	21.9	22.5	23.0	21.4	22.1	21.9	22.5	23.0
	6H	21.9	22.5	22.4	23.0	23.4	21.9	22.5	22.4	23.0	23.4
	8H	22.1	22.6	22.6	23.1	23.6	22.1	22.6	22.6	23.1	23.6
	12H	22.2	22.7	22.8	23.2	23.7	22.2	22.7	22.8	23.2	23.7
12H	4H	21.4	22.0	21.9	22.5	22.9	21.4	22.0	21.9	22.5	22.9
	6H	21.9	22.4	22.5	22.9	23.4	21.9	22.4	22.5	22.9	23.4
	8H	22.2	22.6	22.7	23.1	23.7	22.2	22.6	22.7	23.1	23.7

Maximum UGR = 23.7

POLAR GRAPH



Maximum Candela = 728.426 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.)