

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4LDR-L30-930-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-L30-930-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	2101
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	81
Total Luminaire Watts	26
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	50207	50207	50207
55	33748	33748	33748
65	25421	25421	25421
75	19303	19303	19303
85	14119	14119	14119

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CANDELA TABULATION

	<u>0</u>
0.0	1432.597
0.5	1433.354
1.0	1432.597
1.5	1431.841
2.0	1431.084
2.5	1430.327
3.0	1428.814
3.5	1427.300
4.0	1425.786
4.5	1423.516
5.0	1422.002
5.5	1418.975
6.0	1417.462
6.5	1413.678
7.0	1410.651
7.5	1406.867
8.0	1403.840
8.5	1400.056
9.0	1395.515
9.5	1390.974
10.0	1387.190
10.5	1382.650
11.0	1378.109
11.5	1372.811
12.0	1366.757
12.5	1361.459
13.0	1356.162
13.5	1349.351
14.0	1343.297
14.5	1337.242
15.0	1330.431
15.5	1323.620
16.0	1316.052
16.5	1309.241
17.0	1301.673
17.5	1293.349
18.0	1285.781
18.5	1277.456
19.0	1268.375
19.5	1259.293
20.0	1249.455
20.5	1239.617
21.0	1229.022
21.5	1216.913
22.0	1204.805
22.5	1191.939
23.0	1178.317
23.5	1163.181
24.0	1146.532
24.5	1130.640
25.0	1112.477
25.5	1094.314
26.0	1076.908
26.5	1057.231

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**CANDELA TABULATION - (Cont.)**

27.0	1037.555
27.5	1016.365
28.0	995.931
28.5	975.498
29.0	955.065
29.5	936.145
30.0	916.469
30.5	895.279
31.0	874.089
31.5	852.142
32.0	830.952
32.5	809.762
33.0	788.572
33.5	768.139
34.0	747.251
34.5	726.894
35.0	706.839
35.5	686.935
36.0	667.335
36.5	647.885
37.0	628.738
37.5	609.895
38.0	591.353
38.5	572.812
39.0	554.725
39.5	536.789
40.0	519.231
40.5	501.825
41.0	484.873
41.5	468.148
42.0	452.029
42.5	436.136
43.0	420.849
43.5	406.016
44.0	391.637
44.5	377.864
45.0	364.620
45.5	351.906
46.0	339.797
46.5	328.294
47.0	317.321
47.5	306.953
48.0	297.115
48.5	287.730
49.0	278.876
49.5	270.400
50.0	262.454
50.5	254.810
51.0	247.621
51.5	240.734
52.0	234.150
52.5	227.793
53.0	221.663
53.5	215.684
54.0	209.933
54.5	204.332

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CANDELA TABULATION - (Cont.)

55.0	198.808
55.5	193.586
56.0	188.591
56.5	183.672
57.0	178.753
57.5	173.910
58.0	169.066
58.5	164.223
59.0	159.531
59.5	154.990
60.0	150.449
60.5	146.060
61.0	141.670
61.5	137.508
62.0	133.346
62.5	129.335
63.0	125.400
63.5	121.540
64.0	117.605
64.5	113.972
65.0	110.340
65.5	106.783
66.0	103.226
66.5	99.820
67.0	96.490
67.5	93.236
68.0	90.058
68.5	86.879
69.0	83.776
69.5	80.749
70.0	77.798
70.5	74.922
71.0	72.046
71.5	69.246
72.0	66.522
72.5	63.873
73.0	61.224
73.5	58.727
74.0	56.229
74.5	53.732
75.0	51.310
75.5	48.964
76.0	46.694
76.5	44.423
77.0	42.229
77.5	40.034
78.0	37.991
78.5	35.872
79.0	33.828
79.5	31.861
80.0	29.893
80.5	28.001
81.0	26.109
81.5	24.293
82.0	22.552
82.5	20.812

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CANDELA TABULATION - (Cont.)

83.0	19.071
83.5	17.406
84.0	15.817
84.5	14.152
85.0	12.638
85.5	11.125
86.0	9.611
86.5	8.173
87.0	6.735
87.5	5.373
88.0	4.087
88.5	2.800
89.0	1.665
89.5	0.757
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
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128.5	0.000
129.0	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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151.5	0.000
152.0	0.000
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153.0	0.000
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159.0	0.000
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160.0	0.000
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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	508.54	N.A.	24.20
0-30	1013.73	N.A.	48.30
0-40	1455.00	N.A.	69.30
0-60	1921.17	N.A.	91.40
0-80	2086.46	N.A.	99.30
0-90	2100.94	N.A.	100.00
10-90	1966.33	N.A.	93.60
20-40	946.45	N.A.	45.00
20-50	1232.93	N.A.	58.70
40-70	576.46	N.A.	27.40
60-80	165.29	N.A.	7.90
70-80	55.00	N.A.	2.60
80-90	14.47	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	2100.94	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	134.60
10-20	373.94
20-30	505.18
30-40	441.27
40-50	286.48
50-60	179.70
60-70	110.28
70-80	55.00
80-90	14.47
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	102	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	71
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	60	67	63	59	57
6	79	68	60	55	77	67	60	55	65	59	55	64	58	54	62	58	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**

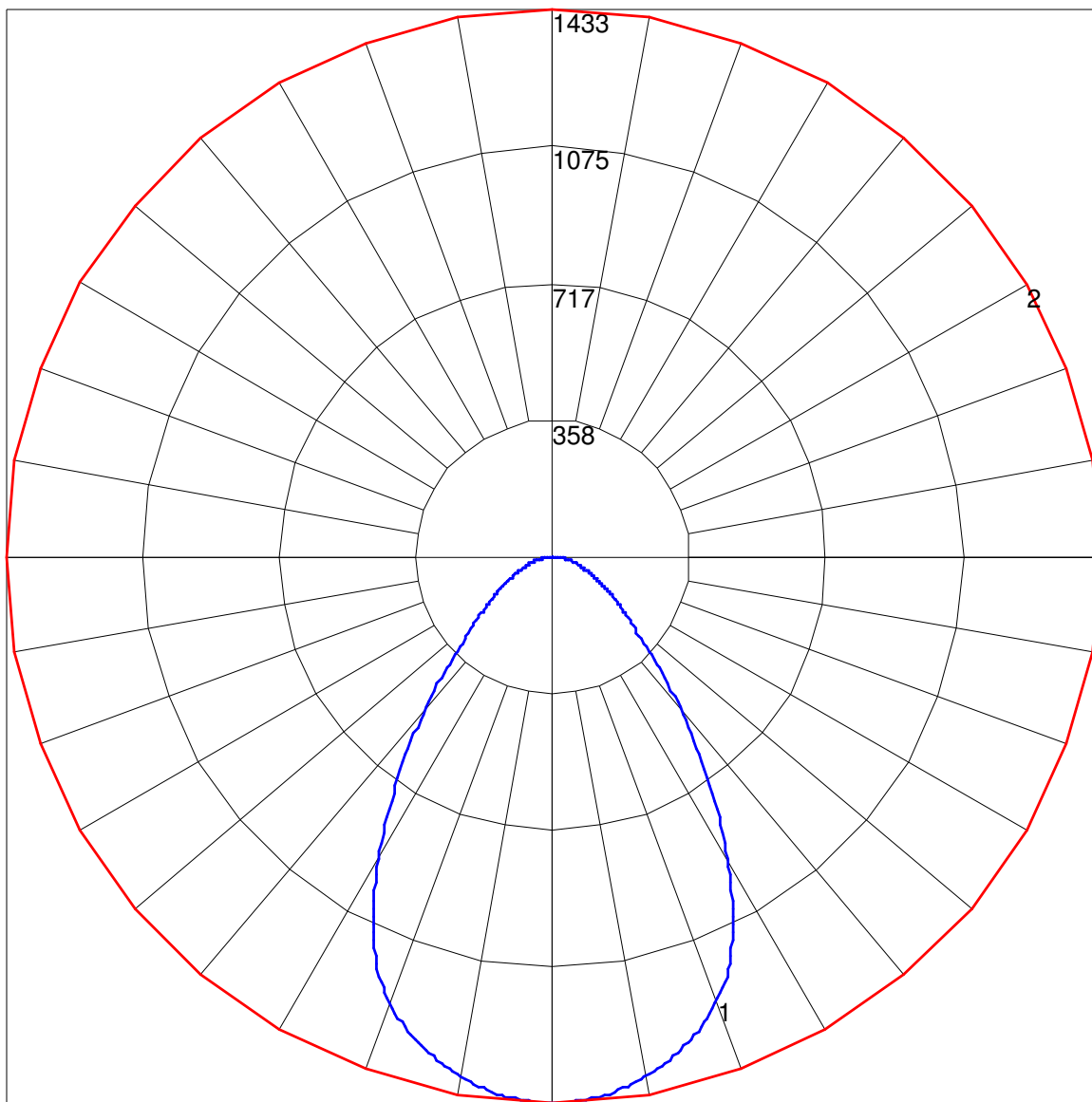
Reflectances

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	21.3	22.6	21.6	22.9	23.2	21.3	22.6	21.6	22.9	23.2
	3H	22.5	23.7	22.9	24.0	24.4	22.5	23.7	22.9	24.0	24.4
	4H	22.9	24.0	23.3	24.4	24.8	22.9	24.0	23.3	24.4	24.8
	6H	23.2	24.2	23.6	24.6	25.0	23.2	24.2	23.6	24.6	25.0
	8H	23.3	24.3	23.8	24.7	25.1	23.3	24.3	23.8	24.7	25.1
	12H	23.4	24.3	23.8	24.7	25.1	23.4	24.3	23.8	24.7	25.1
4H	2H	21.7	22.8	22.1	23.1	23.5	21.7	22.8	22.1	23.1	23.5
	3H	23.1	24.0	23.5	24.4	24.8	23.1	24.0	23.5	24.4	24.8
	4H	23.7	24.5	24.1	24.9	25.3	23.7	24.5	24.1	24.9	25.3
	6H	24.1	24.8	24.5	25.2	25.7	24.1	24.8	24.5	25.2	25.7
	8H	24.2	24.8	24.6	25.3	25.7	24.2	24.8	24.6	25.3	25.7
	12H	24.3	24.8	24.8	25.3	25.8	24.3	24.8	24.8	25.3	25.8
8H	4H	23.8	24.5	24.3	24.9	25.4	23.8	24.5	24.3	24.9	25.4
	6H	24.3	24.9	24.8	25.4	25.8	24.3	24.9	24.8	25.4	25.8
	8H	24.5	25.0	25.0	25.5	26.0	24.5	25.0	25.0	25.5	26.0
	12H	24.6	25.1	25.2	25.6	26.1	24.6	25.1	25.2	25.6	26.1
12H	4H	23.8	24.4	24.3	24.9	25.3	23.8	24.4	24.3	24.9	25.3
	6H	24.3	24.8	24.9	25.3	25.8	24.3	24.8	24.9	25.3	25.8
	8H	24.6	25.0	25.1	25.5	26.1	24.6	25.0	25.1	25.5	26.1

Maximum UGR = 26.1

POLAR GRAPH



Maximum Candela = 1433.354 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.)