

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4LDR-L30-935-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-L30-935-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	2127
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	82
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	50819	50819	50819
55	34160	34160	34160
65	25731	25731	25731
75	19538	19538	19538
85	14291	14291	14291

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CANDELA TABULATION

	<u>0</u>
0.0	1450.068
0.5	1450.834
1.0	1450.068
1.5	1449.302
2.0	1448.536
2.5	1447.770
3.0	1446.238
3.5	1444.706
4.0	1443.174
4.5	1440.876
5.0	1439.344
5.5	1436.280
6.0	1434.748
6.5	1430.918
7.0	1427.854
7.5	1424.023
8.0	1420.959
8.5	1417.129
9.0	1412.533
9.5	1407.937
10.0	1404.107
10.5	1399.511
11.0	1394.915
11.5	1389.553
12.0	1383.425
12.5	1378.062
13.0	1372.700
13.5	1365.806
14.0	1359.678
14.5	1353.550
15.0	1346.656
15.5	1339.762
16.0	1332.102
16.5	1325.207
17.0	1317.547
17.5	1309.121
18.0	1301.461
18.5	1293.035
19.0	1283.843
19.5	1274.650
20.0	1264.692
20.5	1254.734
21.0	1244.010
21.5	1231.753
22.0	1219.497
22.5	1206.475
23.0	1192.687
23.5	1177.366
24.0	1160.514
24.5	1144.428
25.0	1126.043
25.5	1107.659
26.0	1090.041
26.5	1070.124

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CANDELA TABULATION - (Cont.)

27.0	1050.208
27.5	1028.759
28.0	1008.077
28.5	987.394
29.0	966.712
29.5	947.562
30.0	927.645
30.5	906.197
31.0	884.748
31.5	862.534
32.0	841.085
32.5	819.637
33.0	798.188
33.5	777.506
34.0	756.364
34.5	735.758
35.0	715.459
35.5	695.313
36.0	675.473
36.5	655.786
37.0	636.406
37.5	617.332
38.0	598.565
38.5	579.797
39.0	561.490
39.5	543.335
40.0	525.563
40.5	507.945
41.0	490.786
41.5	473.857
42.0	457.541
42.5	441.455
43.0	425.981
43.5	410.967
44.0	396.413
44.5	382.472
45.0	369.066
45.5	356.197
46.0	343.941
46.5	332.298
47.0	321.190
47.5	310.696
48.0	300.738
48.5	291.239
49.0	282.277
49.5	273.697
50.0	265.654
50.5	257.918
51.0	250.640
51.5	243.670
52.0	237.005
52.5	230.571
53.0	224.366
53.5	218.315
54.0	212.493
54.5	206.824

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CANDELA TABULATION - (Cont.)

55.0	201.232
55.5	195.947
56.0	190.891
56.5	185.912
57.0	180.933
57.5	176.030
58.0	171.128
58.5	166.225
59.0	161.476
59.5	156.880
60.0	152.284
60.5	147.841
61.0	143.398
61.5	139.185
62.0	134.972
62.5	130.912
63.0	126.929
63.5	123.022
64.0	119.039
64.5	115.362
65.0	111.685
65.5	108.085
66.0	104.485
66.5	101.037
67.0	97.667
67.5	94.373
68.0	91.156
68.5	87.939
69.0	84.798
69.5	81.734
70.0	78.746
70.5	75.836
71.0	72.925
71.5	70.090
72.0	67.333
72.5	64.652
73.0	61.971
73.5	59.443
74.0	56.915
74.5	54.387
75.0	51.936
75.5	49.561
76.0	47.263
76.5	44.965
77.0	42.744
77.5	40.522
78.0	38.454
78.5	36.309
79.0	34.241
79.5	32.249
80.0	30.258
80.5	28.343
81.0	26.428
81.5	24.589
82.0	22.827
82.5	21.065

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CANDELA TABULATION - (Cont.)

83.0	19.304
83.5	17.618
84.0	16.010
84.5	14.324
85.0	12.792
85.5	11.260
86.0	9.728
86.5	8.273
87.0	6.818
87.5	5.439
88.0	4.136
88.5	2.834
89.0	1.685
89.5	0.766
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
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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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150.0	0.000
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151.0	0.000
151.5	0.000
152.0	0.000
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153.0	0.000
153.5	0.000
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155.5	0.000
156.0	0.000
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158.5	0.000
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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	514.74	N.A.	24.20
0-30	1026.09	N.A.	48.30
0-40	1472.74	N.A.	69.30
0-60	1944.6	N.A.	91.40
0-80	2111.9	N.A.	99.30
0-90	2126.56	N.A.	100.00
10-90	1990.31	N.A.	93.60
20-40	958.00	N.A.	45.00
20-50	1247.97	N.A.	58.70
40-70	583.49	N.A.	27.40
60-80	167.30	N.A.	7.90
70-80	55.67	N.A.	2.60
80-90	14.65	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	2126.56	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	136.24
10-20	378.50
20-30	511.34
30-40	446.65
40-50	289.97
50-60	181.89
60-70	111.63
70-80	55.67
80-90	14.65
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	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	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

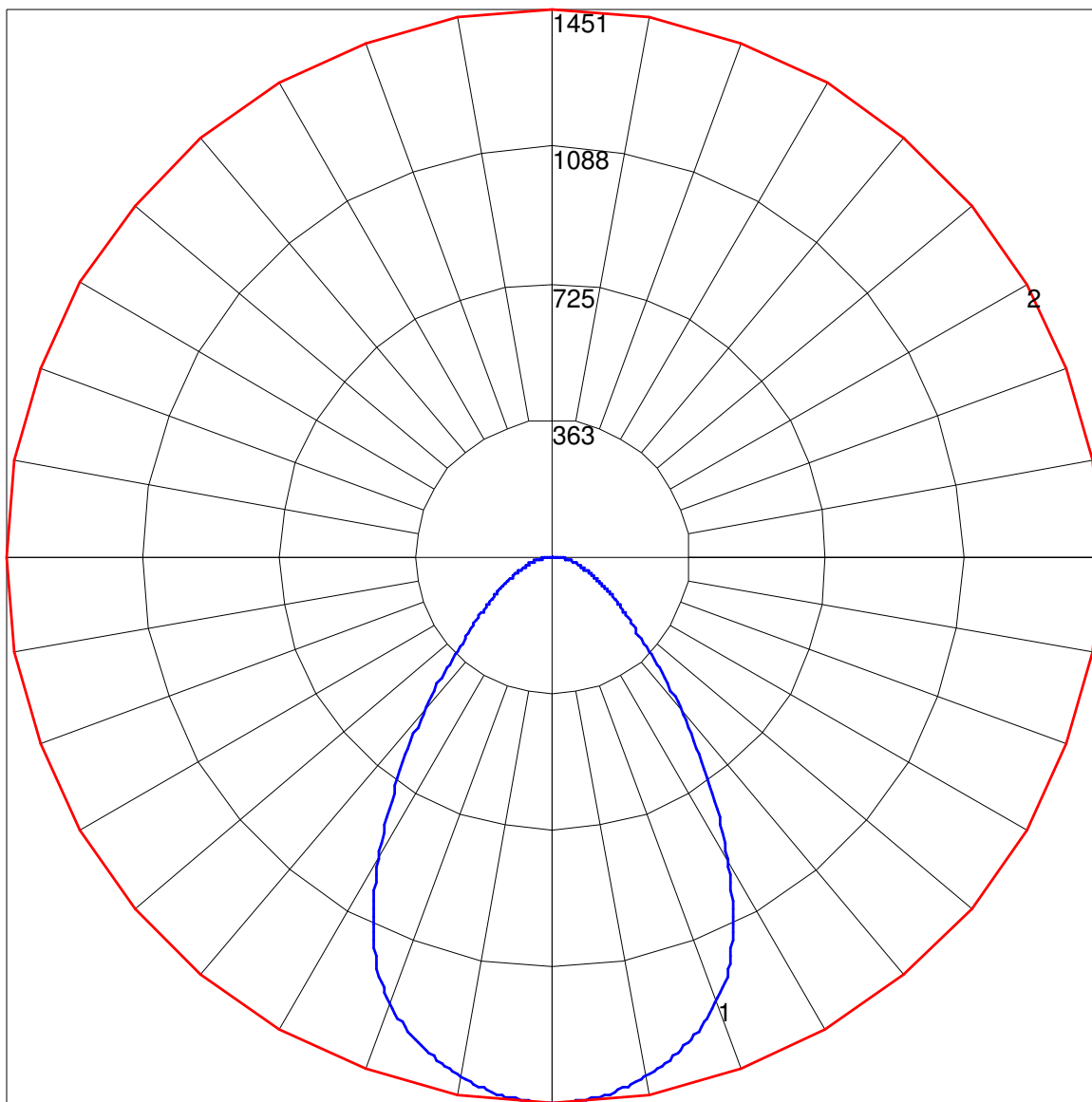
Reflectances

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	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 = 1450.834 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.)