

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4LDR-L10-930-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-L10-930-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	330
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	35
Total Luminaire Watts	9.3
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	4134	4134	4134
55	535	535	535
65	186	186	186
75	80	80	80
85	53	53	53

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CANDELA TABULATION

	<u>0</u>
0.0	329.640
0.5	329.640
1.0	329.640
1.5	329.403
2.0	329.166
2.5	328.929
3.0	328.691
3.5	327.980
4.0	327.506
4.5	327.031
5.0	326.320
5.5	325.846
6.0	324.897
6.5	324.186
7.0	323.237
7.5	322.288
8.0	321.340
8.5	320.154
9.0	318.968
9.5	317.782
10.0	316.597
10.5	315.174
11.0	313.751
11.5	312.328
12.0	310.668
12.5	309.245
13.0	307.348
13.5	305.925
14.0	304.028
14.5	302.368
15.0	300.470
15.5	298.573
16.0	296.913
16.5	295.016
17.0	293.593
17.5	291.696
18.0	289.799
18.5	287.901
19.0	285.530
19.5	282.921
20.0	280.313
20.5	277.704
21.0	274.621
21.5	271.538
22.0	267.981
22.5	264.423
23.0	260.392
23.5	256.123
24.0	251.380
24.5	246.400
25.0	241.420
25.5	236.202
26.0	230.748
26.5	225.128

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CANDELA TABULATION - (Cont.)

27.0	219.365
27.5	213.436
28.0	207.365
28.5	201.199
29.0	195.009
29.5	188.749
30.0	182.511
30.5	176.227
31.0	169.919
31.5	163.634
32.0	157.397
32.5	151.208
33.0	145.089
33.5	139.089
34.0	133.184
34.5	127.326
35.0	121.611
35.5	115.991
36.0	110.465
36.5	104.987
37.0	99.651
37.5	94.386
38.0	89.240
38.5	84.189
39.0	79.208
39.5	74.299
40.0	69.533
40.5	64.885
41.0	60.355
41.5	55.968
42.0	51.723
42.5	47.620
43.0	43.731
43.5	40.007
44.0	36.474
44.5	33.154
45.0	30.023
45.5	27.083
46.0	24.355
46.5	21.842
47.0	19.541
47.5	17.431
48.0	15.510
48.5	13.755
49.0	12.190
49.5	10.790
50.0	9.533
50.5	8.419
51.0	7.447
51.5	6.617
52.0	5.881
52.5	5.241
53.0	4.696
53.5	4.221
54.0	3.818
54.5	3.462

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CANDELA TABULATION - (Cont.)

55.0	3.154
55.5	2.917
56.0	2.704
56.5	2.538
57.0	2.395
57.5	2.253
58.0	2.111
58.5	1.968
59.0	1.850
59.5	1.707
60.0	1.613
60.5	1.494
61.0	1.399
61.5	1.304
62.0	1.209
62.5	1.138
63.0	1.067
63.5	0.996
64.0	0.925
64.5	0.877
65.0	0.806
65.5	0.759
66.0	0.711
66.5	0.664
67.0	0.617
67.5	0.593
68.0	0.545
68.5	0.522
69.0	0.474
69.5	0.451
70.0	0.427
70.5	0.403
71.0	0.379
71.5	0.356
72.0	0.332
72.5	0.308
73.0	0.285
73.5	0.285
74.0	0.261
74.5	0.237
75.0	0.213
75.5	0.213
76.0	0.190
76.5	0.190
77.0	0.166
77.5	0.166
78.0	0.142
78.5	0.142
79.0	0.142
79.5	0.119
80.0	0.119
80.5	0.095
81.0	0.095
81.5	0.095
82.0	0.095
82.5	0.071

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CANDELA TABULATION - (Cont.)

83.0	0.071
83.5	0.071
84.0	0.047
84.5	0.047
85.0	0.047
85.5	0.047
86.0	0.047
86.5	0.024
87.0	0.024
87.5	0.024
88.0	0.024
88.5	0.024
89.0	0.024
89.5	0.024
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
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	115.36	N.A.	35.00
0-30	224.10	N.A.	68.00
0-40	299.99	N.A.	91.00
0-60	328.58	N.A.	99.60
0-80	329.69	N.A.	100.00
0-90	329.75	N.A.	100.00
10-90	298.91	N.A.	90.60
20-40	184.63	N.A.	56.00
20-50	209.74	N.A.	63.60
40-70	29.45	N.A.	8.90
60-80	1.12	N.A.	0.30
70-80	0.25	N.A.	0.10
80-90	0.06	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	329.75	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	30.84
10-20	84.52
20-30	108.74
30-40	75.89
40-50	25.11
50-60	3.48
60-70	0.86
70-80	0.25
80-90	0.06
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

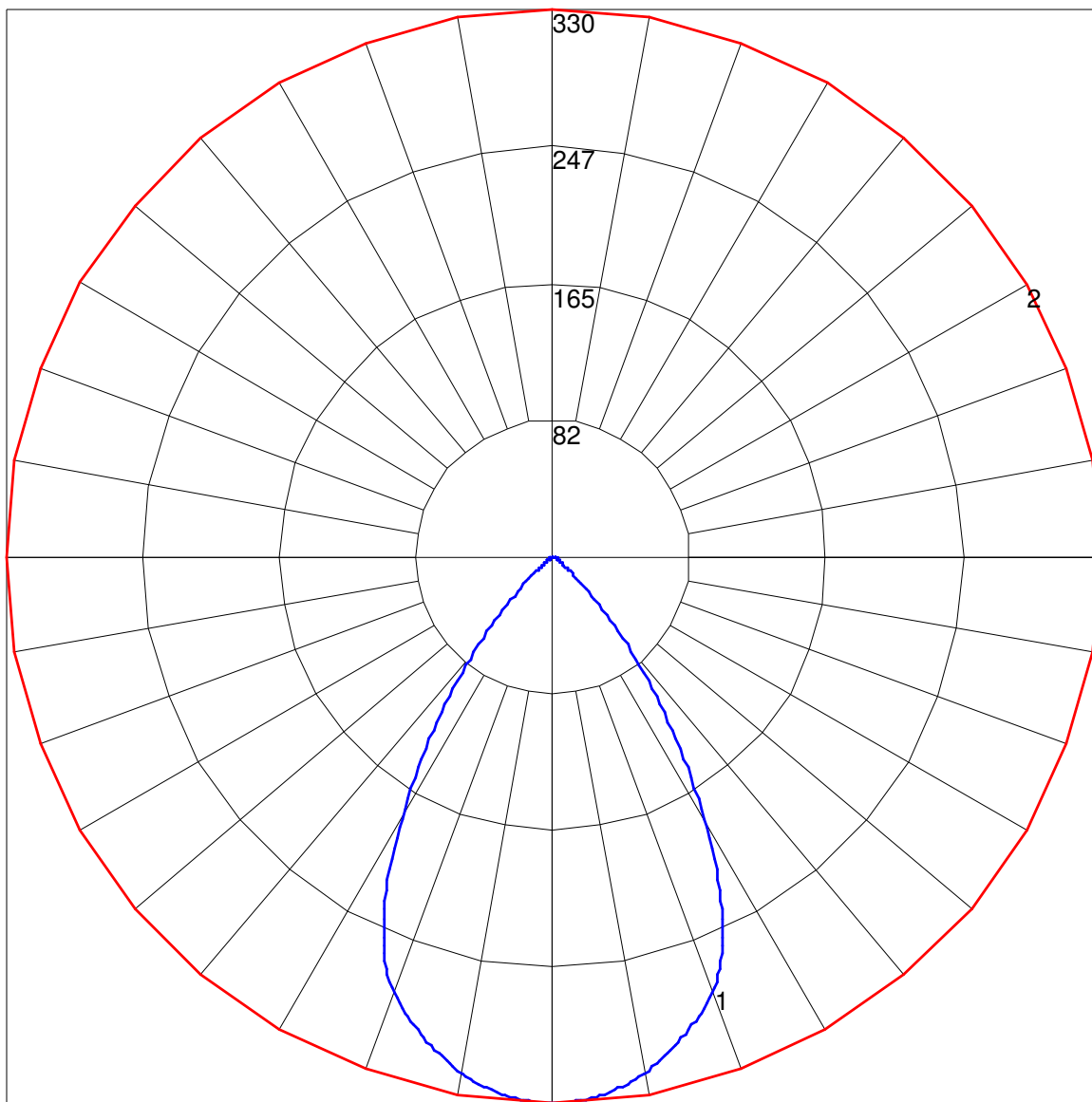
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	102	101	101	99	98	97	96	95	93
2	108	103	98	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

POLAR GRAPH



Maximum Candela = 329.64 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.)