

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 4LDR-L10-930-CS-DIM-UNV\_.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] GEN FROM 4792018053.01  
[TESTLAB] UL, LLC  
[ISSUE DATE] 2025-12-10  
[TEST DATE] 11/12/2025  
[MANUFAC] WILLIAMS INDOOR  
[OTHER] H.E. WILLIAMS, INC.  
[LUMCAT] 4LDR-L10-930-CS-DIM-UNV  
[LUMINAIRE] 4" recessed downlight with clear semi-specular finish refl  
[MORE] ector 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	834
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	90
Total Luminaire Watts	9.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.96
Spacing Criterion (90-270)	0.96
Spacing Criterion (Diagonal)	0.96
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	18139	18139	18139
55	5645	5645	5645
65	219	219	219
75	87	87	87
85	172	172	172

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : 4LDR-L10-930-CS-DIM-UNV\_.IES

CANDELA TABULATION

	0
0.0	765.837
0.5	765.837
1.0	765.837
1.5	766.094
2.0	766.351
2.5	766.608
3.0	767.379
3.5	767.893
4.0	767.893
4.5	768.407
5.0	768.664
5.5	768.407
6.0	767.636
6.5	766.865
7.0	765.323
7.5	763.010
8.0	760.697
8.5	758.127
9.0	754.786
9.5	751.189
10.0	747.077
10.5	742.451
11.0	737.568
11.5	731.914
12.0	726.003
12.5	719.835
13.0	713.411
13.5	706.729
14.0	699.790
14.5	692.337
15.0	684.628
15.5	676.661
16.0	668.437
16.5	660.470
17.0	652.503
17.5	644.537
18.0	636.827
18.5	628.860
19.0	621.150
19.5	613.955
20.0	606.245
20.5	599.049
21.0	591.596
21.5	584.144
22.0	576.691
22.5	568.981
23.0	561.014
23.5	552.790
24.0	544.310
24.5	535.572
25.0	526.577
25.5	517.326
26.0	507.817
26.5	497.794

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 4LDR-L10-930-CS-DIM-UNV\_.IES**

**CANDELA TABULATION - (Cont.)**

27.0	487.771
27.5	477.492
28.0	466.698
28.5	455.904
29.0	445.111
29.5	434.060
30.0	422.752
30.5	411.702
31.0	400.394
31.5	389.086
32.0	378.036
32.5	366.985
33.0	355.934
33.5	345.141
34.0	334.347
34.5	324.067
35.0	313.788
35.5	304.022
36.0	293.485
36.5	283.206
37.0	272.926
37.5	262.903
38.0	253.060
38.5	243.243
39.0	233.555
39.5	224.020
40.0	214.640
40.5	205.414
41.0	196.342
41.5	187.502
42.0	178.815
42.5	170.386
43.0	162.162
43.5	154.170
44.0	146.486
44.5	138.956
45.0	131.734
45.5	124.744
46.0	118.037
46.5	111.586
47.0	105.393
47.5	99.456
48.0	93.751
48.5	88.303
49.0	83.060
49.5	78.023
50.0	73.191
50.5	68.591
51.0	64.145
51.5	59.879
52.0	55.742
52.5	51.758
53.0	47.929
53.5	44.151
54.0	40.502
54.5	36.878

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 4LDR-L10-930-CS-DIM-UNV\_.IES**

**CANDELA TABULATION - (Cont.)**

55.0	33.255
55.5	29.580
56.0	25.879
56.5	22.256
57.0	18.812
57.5	15.599
58.0	12.670
58.5	10.023
59.0	7.684
59.5	5.731
60.0	4.215
60.5	3.110
61.0	2.364
61.5	1.953
62.0	1.670
62.5	1.491
63.0	1.336
63.5	1.234
64.0	1.131
64.5	1.028
65.0	0.951
65.5	0.874
66.0	0.822
66.5	0.771
67.0	0.694
67.5	0.668
68.0	0.617
68.5	0.565
69.0	0.540
69.5	0.488
70.0	0.463
70.5	0.437
71.0	0.411
71.5	0.385
72.0	0.360
72.5	0.334
73.0	0.308
73.5	0.283
74.0	0.283
74.5	0.257
75.0	0.231
75.5	0.231
76.0	0.206
76.5	0.206
77.0	0.206
77.5	0.180
78.0	0.180
78.5	0.154
79.0	0.154
79.5	0.154
80.0	0.154
80.5	0.154
81.0	0.154
81.5	0.154
82.0	0.154
82.5	0.128

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : 4LDR-L10-930-CS-DIM-UNV\_.IES

CANDELA TABULATION - (Cont.)

83.0	0.154
83.5	0.154
84.0	0.154
84.5	0.154
85.0	0.154
85.5	0.154
86.0	0.154
86.5	0.154
87.0	0.154
87.5	0.180
88.0	0.180
88.5	0.180
89.0	0.180
89.5	0.154
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

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : 4LDR-L10-930-CS-DIM-UNV\_.IES

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

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : 4LDR-L10-930-CS-DIM-UNV\_.IES

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

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 4LDR-L10-930-CS-DIM-UNV\_.IES**

**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

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 4LDR-L10-930-CS-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	263.75	N.A.	31.60
0-30	502.85	N.A.	60.30
0-40	698.29	N.A.	83.70
0-60	832.24	N.A.	99.80
0-80	833.73	N.A.	100.00
0-90	833.90	N.A.	100.00
10-90	761.16	N.A.	91.30
20-40	434.54	N.A.	52.10
20-50	538.20	N.A.	64.50
40-70	135.16	N.A.	16.20
60-80	1.48	N.A.	0.20
70-80	0.28	N.A.	0.00
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	833.90	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	72.74
10-20	191.01
20-30	239.10
30-40	195.44
40-50	103.66
50-60	30.30
60-70	1.21
70-80	0.28
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

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 4LDR-L10-930-CS-DIM-UNV\_.IES**

**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	110	107	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85
3	101	94	89	84	99	93	88	84	90	86	82	87	84	81	85	82	80	78
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66
6	85	75	69	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61
7	80	70	64	59	79	69	63	59	68	62	58	67	62	58	66	61	58	56
8	76	65	59	55	74	65	59	54	64	58	54	63	58	54	62	57	54	52
9	72	61	55	51	71	61	55	51	60	54	50	59	54	50	58	53	50	49
10	68	58	51	47	67	57	51	47	56	51	47	56	51	47	55	50	47	45

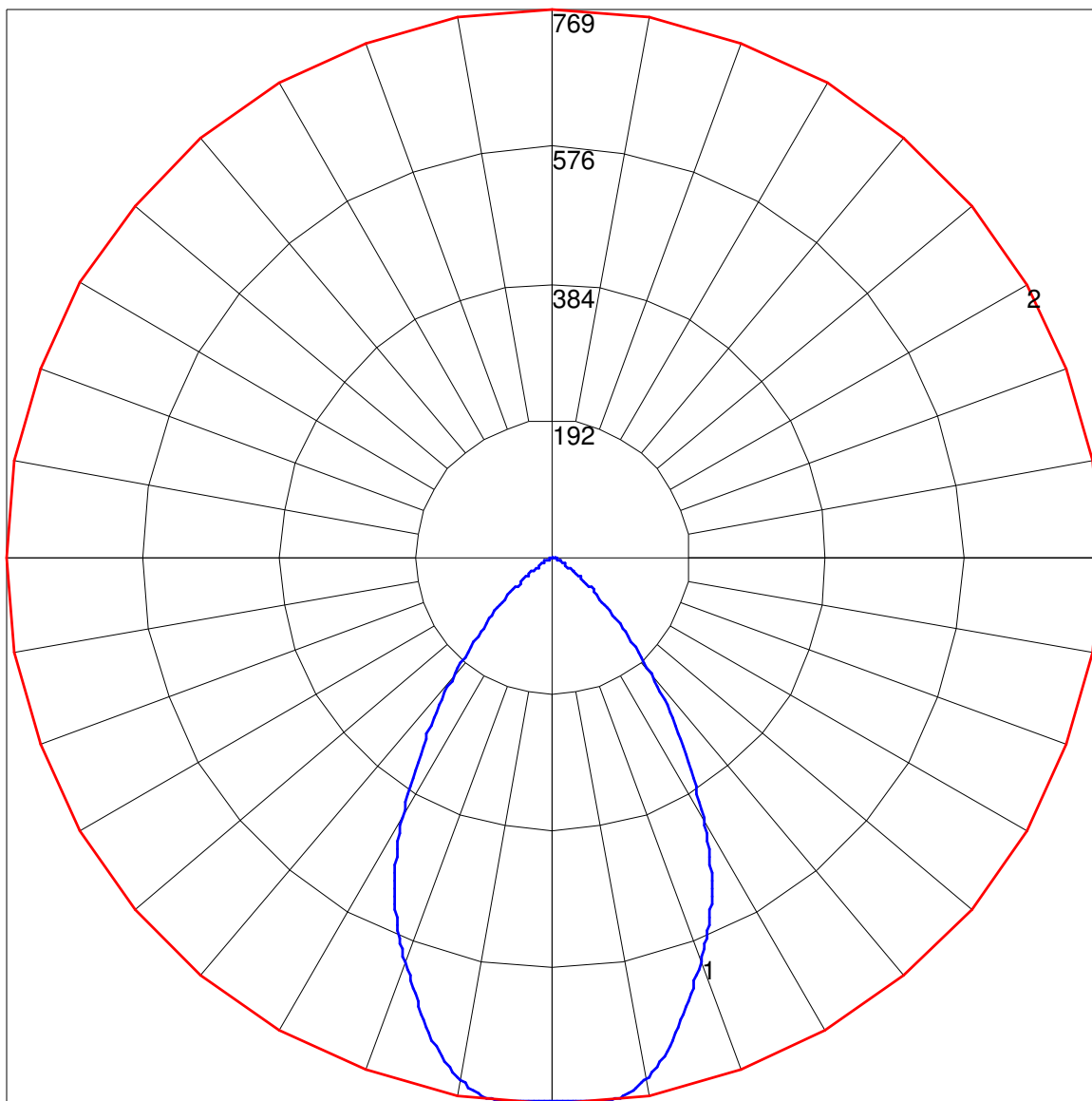
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 4LDR-L10-930-CS-DIM-UNV\_.IES**

**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	7.6	8.7	8.0	9.0	9.3	7.6	8.7	8.0	9.0	9.3
	3H	7.5	8.4	7.9	8.7	9.1	7.5	8.4	7.9	8.7	9.1
	4H	7.4	8.3	7.8	8.6	9.0	7.4	8.3	7.8	8.6	9.0
	6H	7.3	8.1	7.7	8.4	8.8	7.3	8.1	7.7	8.4	8.8
	8H	7.2	8.0	7.7	8.4	8.8	7.2	8.0	7.7	8.4	8.8
	12H	7.2	7.9	7.6	8.3	8.7	7.2	7.9	7.6	8.3	8.7
4H	2H	7.4	8.2	7.8	8.6	9.0	7.4	8.2	7.8	8.6	9.0
	3H	7.2	7.9	7.6	8.3	8.7	7.2	7.9	7.6	8.3	8.7
	4H	7.1	7.7	7.5	8.1	8.6	7.1	7.7	7.5	8.1	8.6
	6H	7.0	7.5	7.5	8.0	8.4	7.0	7.5	7.5	8.0	8.4
	8H	6.9	7.4	7.4	7.9	8.3	6.9	7.4	7.4	7.9	8.3
	12H	6.9	7.3	7.4	7.8	8.3	6.9	7.3	7.4	7.8	8.3
8H	4H	6.9	7.4	7.4	7.9	8.3	6.9	7.4	7.4	7.9	8.3
	6H	6.8	7.2	7.3	7.7	8.2	6.8	7.2	7.3	7.7	8.2
	8H	6.7	7.1	7.3	7.6	8.1	6.7	7.1	7.3	7.6	8.1
	12H	6.7	7.0	7.2	7.5	8.1	6.7	7.0	7.2	7.5	8.1
12H	4H	6.9	7.3	7.3	7.8	8.3	6.9	7.3	7.3	7.8	8.3
	6H	6.7	7.1	7.3	7.6	8.1	6.7	7.1	7.3	7.6	8.1
	8H	6.7	7.0	7.2	7.5	8.1	6.7	7.0	7.2	7.5	8.1

Maximum UGR = 9.3

POLAR GRAPH



Maximum Candela = 768.664 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.)