

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 6LDR-L10-930-CS-DIM-UNV\_.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] GEN FROM 4792018053.03  
[TESTLAB] UL, LLC  
[ISSUE DATE] 2025-12-11  
[TEST DATE] 11/12/2025  
[MANUFACT] WILLIAMS INDOOR  
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
[LUMCAT] 6LDR-L10-930-CS-DIM-UNV  
[LUMINAIRE] 6" 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	840
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)	0.86
Spacing Criterion (90-270)	0.86
Spacing Criterion (Diagonal)	0.90
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.50 ft (Diameter)
Luminous Width (90-270)	0.50 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	8409	8409	8409
55	921	921	921
65	102	102	102
75	38	38	38
85	32	32	32

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CANDELA TABULATION

	<u>0</u>
0.0	927.571
0.5	927.571
1.0	927.571
1.5	928.078
2.0	928.586
2.5	929.094
3.0	929.602
3.5	929.855
4.0	929.348
4.5	928.332
5.0	926.302
5.5	923.509
6.0	919.448
6.5	914.878
7.0	909.294
7.5	903.201
8.0	895.078
8.5	887.209
9.0	878.070
9.5	867.662
10.0	857.254
10.5	845.831
11.0	833.646
11.5	820.446
12.0	808.261
12.5	795.061
13.0	781.099
13.5	769.929
14.0	756.983
14.5	744.544
15.0	733.375
15.5	722.967
16.0	711.290
16.5	702.659
17.0	693.267
17.5	683.874
18.0	675.497
18.5	666.358
19.0	658.235
19.5	650.366
20.0	642.496
20.5	634.627
21.0	626.758
21.5	618.888
22.0	611.019
22.5	602.388
23.0	594.265
23.5	585.634
24.0	576.749
24.5	567.610
25.0	557.964
25.5	547.810
26.0	537.402
26.5	526.233

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**CANDELA TABULATION - (Cont.)**

27.0	514.809
27.5	503.132
28.0	490.694
28.5	478.255
29.0	465.308
29.5	452.616
30.0	439.162
30.5	425.962
31.0	412.508
31.5	399.307
32.0	385.853
32.5	372.399
33.0	359.199
33.5	346.252
34.0	333.052
34.5	320.360
35.0	308.936
35.5	296.752
36.0	284.567
36.5	272.636
37.0	260.705
37.5	248.951
38.0	237.477
38.5	226.206
39.0	215.189
39.5	204.426
40.0	193.917
40.5	183.788
41.0	173.888
41.5	164.394
42.0	155.230
42.5	146.472
43.0	138.095
43.5	130.149
44.0	122.534
44.5	115.375
45.0	108.572
45.5	102.099
46.0	95.956
46.5	90.092
47.0	84.482
47.5	79.100
48.0	73.921
48.5	68.895
49.0	63.945
49.5	59.096
50.0	54.299
50.5	49.526
51.0	44.779
51.5	39.981
52.0	35.209
52.5	30.361
53.0	25.563
53.5	20.943
54.0	16.653
54.5	12.870

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CANDELA TABULATION - (Cont.)

55.0	9.646
55.5	7.159
56.0	5.407
56.5	4.239
57.0	3.503
57.5	2.995
58.0	2.615
58.5	2.335
59.0	2.107
59.5	1.904
60.0	1.726
60.5	1.599
61.0	1.447
61.5	1.345
62.0	1.244
62.5	1.142
63.0	1.041
63.5	0.965
64.0	0.914
64.5	0.838
65.0	0.787
65.5	0.711
66.0	0.685
66.5	0.635
67.0	0.584
67.5	0.533
68.0	0.508
68.5	0.457
69.0	0.432
69.5	0.406
70.0	0.381
70.5	0.355
71.0	0.330
71.5	0.305
72.0	0.279
72.5	0.254
73.0	0.228
73.5	0.228
74.0	0.203
74.5	0.203
75.0	0.178
75.5	0.178
76.0	0.152
76.5	0.152
77.0	0.127
77.5	0.127
78.0	0.127
78.5	0.102
79.0	0.102
79.5	0.102
80.0	0.076
80.5	0.076
81.0	0.076
81.5	0.076
82.0	0.076
82.5	0.051

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CANDELA TABULATION - (Cont.)

83.0	0.051
83.5	0.051
84.0	0.051
84.5	0.051
85.0	0.051
85.5	0.051
86.0	0.025
86.5	0.025
87.0	0.025
87.5	0.025
88.0	0.025
88.5	0.025
89.0	0.025
89.5	0.025
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	292.71	N.A.	34.80
0-30	545.15	N.A.	64.90
0-40	737.54	N.A.	87.80
0-60	839.30	N.A.	99.90
0-80	840.36	N.A.	100.00
0-90	840.41	N.A.	100.00
10-90	754.16	N.A.	89.70
20-40	444.83	N.A.	52.90
20-50	531.58	N.A.	63.30
40-70	102.62	N.A.	12.20
60-80	1.06	N.A.	0.10
70-80	0.21	N.A.	0.00
80-90	0.05	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	840.41	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	86.25
10-20	206.45
20-30	252.44
30-40	192.39
40-50	86.75
50-60	15.02
60-70	0.85
70-80	0.21
80-90	0.05
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

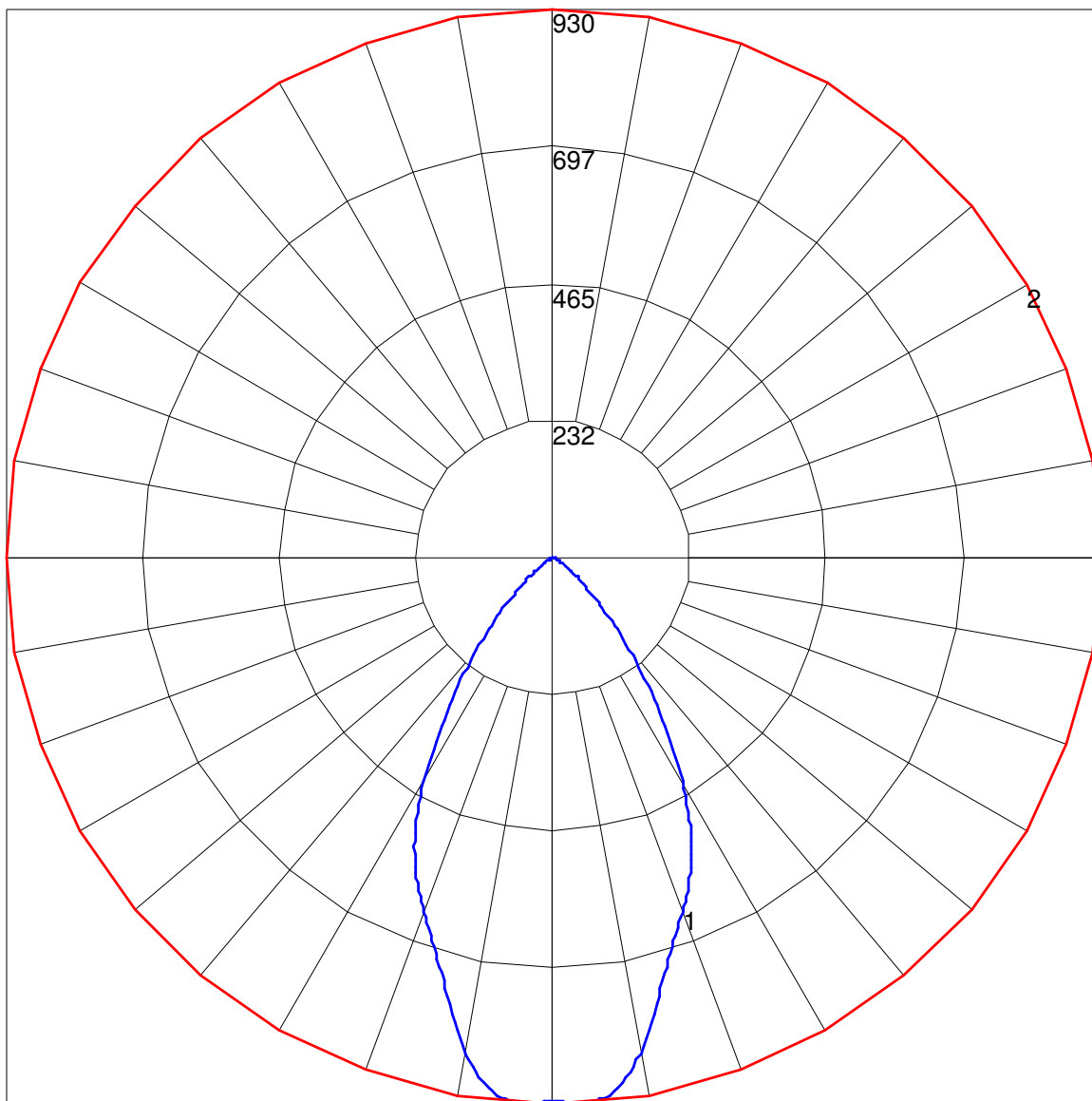
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	102	98	95	105	101	97	94	98	94	92	95	92	90	92	90	88	86
3	102	95	90	86	100	94	89	85	91	87	84	89	85	82	86	84	81	80
4	96	89	83	78	95	87	82	78	85	81	77	83	79	76	81	78	75	74
5	91	83	76	72	90	82	76	72	80	75	71	78	74	70	76	73	70	68
6	86	77	71	66	85	76	70	66	75	70	66	73	69	65	72	68	65	63
7	82	72	66	62	80	71	66	61	70	65	61	69	64	61	68	64	60	59
8	78	68	62	57	76	67	61	57	66	61	57	65	60	57	64	60	56	55
9	74	64	58	53	73	63	57	53	62	57	53	61	56	53	60	56	53	51
10	70	60	54	50	69	60	54	50	59	54	50	58	53	50	57	53	50	48

POLAR GRAPH



Maximum Candela = 929.855 Located At Horizontal Angle = 0, Vertical Angle = 3.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (3.5) (Through Max. Cd.)