

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6LDR-L10-830-BL-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] GEN FROM 4792018053.05  
[TESTLAB] UL, LLC  
[ISSUE DATE] 2025-12-11  
[TEST DATE] 11/11/2025  
[MANUFAC] WILLIAMS INDOOR  
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
[LUMCAT] 6LDR-L10-830-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	372
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	40
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)	0.50 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	2626	2626	2626
55	340	340	340
65	118	118	118
75	51	51	51
85	34	34	34

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CANDELA TABULATION

	<u>0</u>
0.0	372.240
0.5	372.240
1.0	372.240
1.5	371.972
2.0	371.704
2.5	371.437
3.0	371.169
3.5	370.365
4.0	369.830
4.5	369.294
5.0	368.491
5.5	367.955
6.0	366.884
6.5	366.081
7.0	365.009
7.5	363.938
8.0	362.867
8.5	361.528
9.0	360.189
9.5	358.850
10.0	357.511
10.5	355.904
11.0	354.298
11.5	352.691
12.0	350.816
12.5	349.209
13.0	347.067
13.5	345.460
14.0	343.318
14.5	341.443
15.0	339.301
15.5	337.158
16.0	335.284
16.5	333.141
17.0	331.535
17.5	329.392
18.0	327.250
18.5	325.108
19.0	322.430
19.5	319.484
20.0	316.538
20.5	313.592
21.0	310.111
21.5	306.629
22.0	302.612
22.5	298.595
23.0	294.043
23.5	289.222
24.0	283.867
24.5	278.243
25.0	272.619
25.5	266.727
26.0	260.568
26.5	254.221

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**CANDELA TABULATION - (Cont.)**

27.0	247.714
27.5	241.019
28.0	234.163
28.5	227.200
29.0	220.211
29.5	213.141
30.0	206.098
30.5	199.001
31.0	191.878
31.5	184.781
32.0	177.738
32.5	170.748
33.0	163.839
33.5	157.064
34.0	150.396
34.5	143.781
35.0	137.327
35.5	130.980
36.0	124.741
36.5	118.554
37.0	112.529
37.5	106.584
38.0	100.773
38.5	95.069
39.0	89.445
39.5	83.901
40.0	78.519
40.5	73.270
41.0	68.155
41.5	63.200
42.0	58.407
42.5	53.774
43.0	49.382
43.5	45.178
44.0	41.187
44.5	37.438
45.0	33.903
45.5	30.583
46.0	27.503
46.5	24.664
47.0	22.067
47.5	19.683
48.0	17.514
48.5	15.532
49.0	13.765
49.5	12.185
50.0	10.766
50.5	9.507
51.0	8.409
51.5	7.472
52.0	6.641
52.5	5.918
53.0	5.302
53.5	4.767
54.0	4.312
54.5	3.910

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CANDELA TABULATION - (Cont.)

55.0	3.562
55.5	3.294
56.0	3.053
56.5	2.865
57.0	2.705
57.5	2.544
58.0	2.383
58.5	2.223
59.0	2.089
59.5	1.928
60.0	1.821
60.5	1.687
61.0	1.580
61.5	1.473
62.0	1.366
62.5	1.285
63.0	1.205
63.5	1.125
64.0	1.044
64.5	0.991
65.0	0.911
65.5	0.857
66.0	0.803
66.5	0.750
67.0	0.696
67.5	0.669
68.0	0.616
68.5	0.589
69.0	0.536
69.5	0.509
70.0	0.482
70.5	0.455
71.0	0.428
71.5	0.402
72.0	0.375
72.5	0.348
73.0	0.321
73.5	0.321
74.0	0.295
74.5	0.268
75.0	0.241
75.5	0.241
76.0	0.214
76.5	0.214
77.0	0.187
77.5	0.187
78.0	0.161
78.5	0.161
79.0	0.161
79.5	0.134
80.0	0.134
80.5	0.107
81.0	0.107
81.5	0.107
82.0	0.107
82.5	0.080

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CANDELA TABULATION - (Cont.)

83.0	0.080
83.5	0.080
84.0	0.054
84.5	0.054
85.0	0.054
85.5	0.054
86.0	0.054
86.5	0.027
87.0	0.027
87.5	0.027
88.0	0.027
88.5	0.027
89.0	0.027
89.5	0.027
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
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131.0	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
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	130.27	N.A.	35.00
0-30	253.06	N.A.	68.00
0-40	338.76	N.A.	91.00
0-60	371.04	N.A.	99.60
0-80	372.30	N.A.	100.00
0-90	372.37	N.A.	100.00
10-90	337.54	N.A.	90.60
20-40	208.49	N.A.	56.00
20-50	236.84	N.A.	63.60
40-70	33.26	N.A.	8.90
60-80	1.26	N.A.	0.30
70-80	0.29	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	372.37	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	34.83
10-20	95.44
20-30	122.79
30-40	85.70
40-50	28.35
50-60	3.93
60-70	0.98
70-80	0.29
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

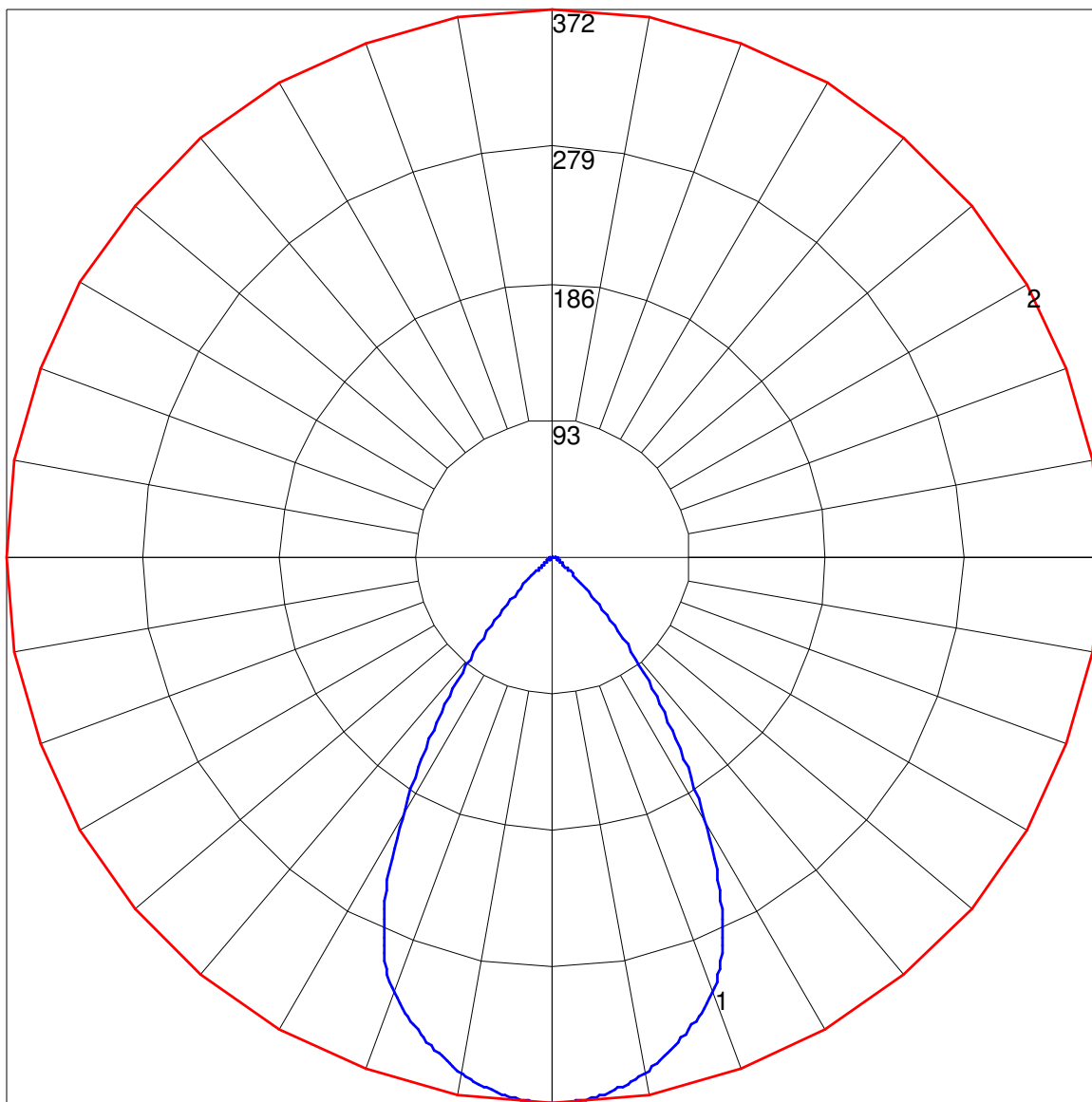
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	114	111	108	106	111	109	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87
3	102	96	90	86	100	94	90	86	92	88	84	89	86	83	87	84	82	80
4	97	89	83	79	95	88	83	79	86	81	78	84	80	77	82	79	76	74
5	92	83	77	73	90	82	77	72	80	75	72	79	74	71	77	73	70	69
6	87	78	72	67	85	77	71	67	75	70	67	74	70	66	73	69	66	64
7	82	73	67	62	81	72	66	62	71	66	62	70	65	62	69	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	60	54	51	59	54	50	58	54	50	49

POLAR GRAPH



Maximum Candela = 372.24 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.)