

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6LDR-L10-940-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-L10-940-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	323
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)	0.50 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	2281	2281	2281
55	295	295	295
65	103	103	103
75	44	44	44
85	30	30	30

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CANDELA TABULATION

	<u>0</u>
0.0	323.360
0.5	323.360
1.0	323.360
1.5	323.127
2.0	322.895
2.5	322.662
3.0	322.429
3.5	321.732
4.0	321.266
4.5	320.801
5.0	320.103
5.5	319.638
6.0	318.707
6.5	318.009
7.0	317.079
7.5	316.148
8.0	315.218
8.5	314.055
9.0	312.892
9.5	311.728
10.0	310.565
10.5	309.169
11.0	307.774
11.5	306.378
12.0	304.749
12.5	303.354
13.0	301.492
13.5	300.097
14.0	298.236
14.5	296.607
15.0	294.746
15.5	292.885
16.0	291.257
16.5	289.396
17.0	288.000
17.5	286.139
18.0	284.278
18.5	282.417
19.0	280.090
19.5	277.531
20.0	274.972
20.5	272.413
21.0	269.389
21.5	266.365
22.0	262.875
22.5	259.386
23.0	255.431
23.5	251.244
24.0	246.591
24.5	241.706
25.0	236.820
25.5	231.703
26.0	226.352
26.5	220.839

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**CANDELA TABULATION - (Cont.)**

27.0	215.186
27.5	209.370
28.0	203.414
28.5	197.366
29.0	191.294
29.5	185.153
30.0	179.034
30.5	172.870
31.0	166.682
31.5	160.517
32.0	154.399
32.5	148.327
33.0	142.325
33.5	136.439
34.0	130.647
34.5	124.901
35.0	119.294
35.5	113.781
36.0	108.360
36.5	102.987
37.0	97.752
37.5	92.588
38.0	87.540
38.5	82.585
39.0	77.699
39.5	72.884
40.0	68.208
40.5	63.648
41.0	59.205
41.5	54.901
42.0	50.737
42.5	46.713
43.0	42.898
43.5	39.245
44.0	35.779
44.5	32.522
45.0	29.451
45.5	26.567
46.0	23.891
46.5	21.426
47.0	19.169
47.5	17.099
48.0	15.214
48.5	13.493
49.0	11.957
49.5	10.585
50.0	9.352
50.5	8.258
51.0	7.305
51.5	6.490
52.0	5.769
52.5	5.141
53.0	4.606
53.5	4.141
54.0	3.745
54.5	3.396

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CANDELA TABULATION - (Cont.)

55.0	3.094
55.5	2.861
56.0	2.652
56.5	2.489
57.0	2.350
57.5	2.210
58.0	2.070
58.5	1.931
59.0	1.815
59.5	1.675
60.0	1.582
60.5	1.466
61.0	1.373
61.5	1.279
62.0	1.186
62.5	1.117
63.0	1.047
63.5	0.977
64.0	0.907
64.5	0.861
65.0	0.791
65.5	0.744
66.0	0.698
66.5	0.651
67.0	0.605
67.5	0.582
68.0	0.535
68.5	0.512
69.0	0.465
69.5	0.442
70.0	0.419
70.5	0.395
71.0	0.372
71.5	0.349
72.0	0.326
72.5	0.302
73.0	0.279
73.5	0.279
74.0	0.256
74.5	0.233
75.0	0.209
75.5	0.209
76.0	0.186
76.5	0.186
77.0	0.163
77.5	0.163
78.0	0.140
78.5	0.140
79.0	0.140
79.5	0.116
80.0	0.116
80.5	0.093
81.0	0.093
81.5	0.093
82.0	0.093
82.5	0.070

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CANDELA TABULATION - (Cont.)

83.0	0.070
83.5	0.070
84.0	0.047
84.5	0.047
85.0	0.047
85.5	0.047
86.0	0.047
86.5	0.023
87.0	0.023
87.5	0.023
88.0	0.023
88.5	0.023
89.0	0.023
89.5	0.023
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	113.17	N.A.	35.00
0-30	219.83	N.A.	68.00
0-40	294.28	N.A.	91.00
0-60	322.32	N.A.	99.60
0-80	323.41	N.A.	100.00
0-90	323.47	N.A.	100.00
10-90	293.21	N.A.	90.60
20-40	181.11	N.A.	56.00
20-50	205.74	N.A.	63.60
40-70	28.89	N.A.	8.90
60-80	1.10	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	323.47	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	30.26
10-20	82.91
20-30	106.67
30-40	74.44
40-50	24.63
50-60	3.41
60-70	0.85
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

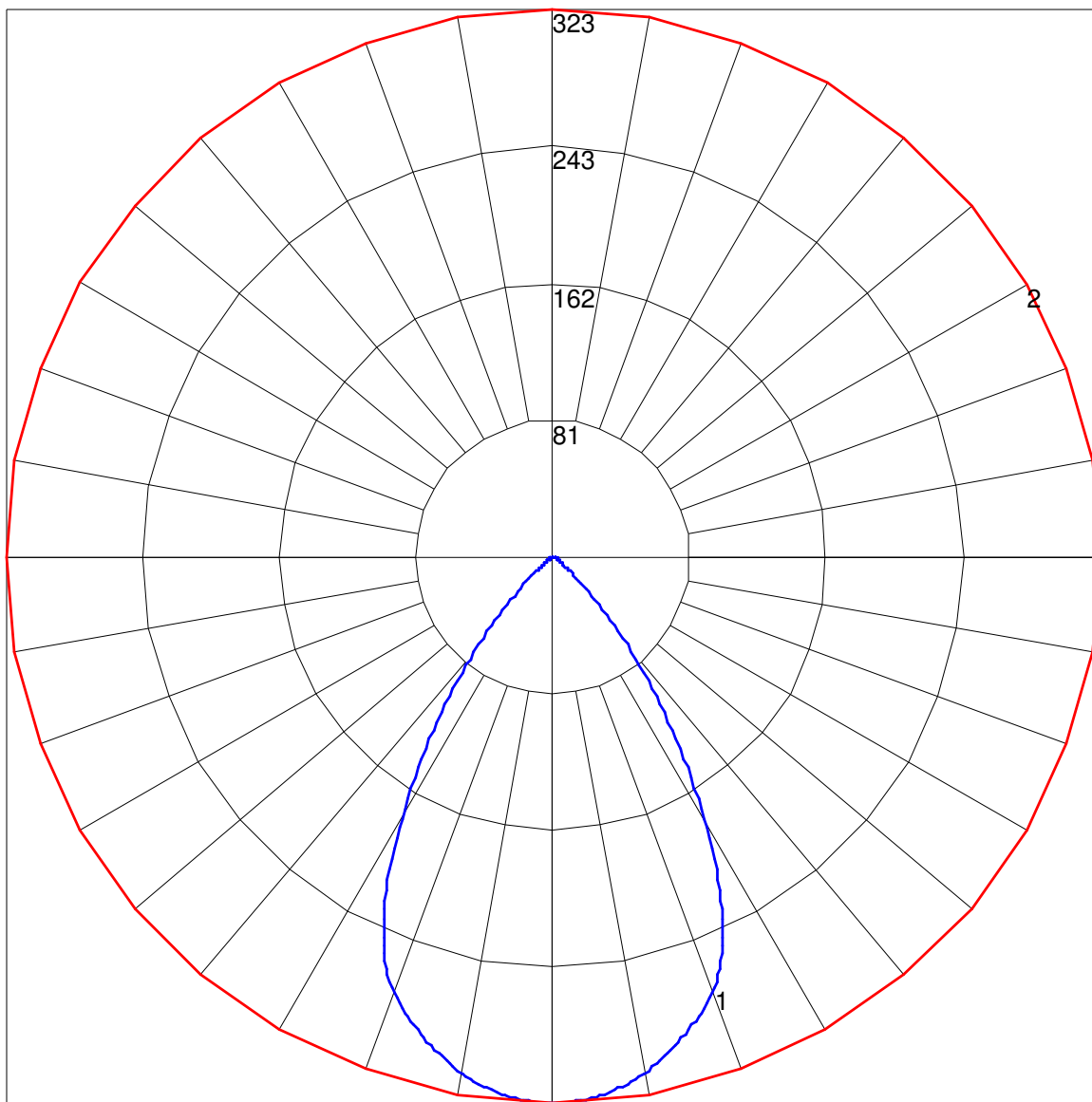
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	107	107	107	102	102	102	100
1	114	111	108	106	111	109	106	104	105	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	91	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	76	72	79	74	71	77	73	71	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	69	62	58	77	68	62	58	67	62	58	66	61	58	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	51	58	54	50	49

POLAR GRAPH



Maximum Candela = 323.36 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.)