

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6LDR-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] 2025-12-11  
[TEST DATE] 11/11/2025  
[MANUFAC] WILLIAMS INDOOR  
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
[LUMCAT] 6LDR-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	308
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	33
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	2175	2175	2175
55	282	282	282
65	98	98	98
75	42	42	42
85	28	28	28

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CANDELA TABULATION

	<u>0</u>
0.0	308.320
0.5	308.320
1.0	308.320
1.5	308.098
2.0	307.876
2.5	307.654
3.0	307.433
3.5	306.767
4.0	306.324
4.5	305.880
5.0	305.215
5.5	304.771
6.0	303.884
6.5	303.218
7.0	302.331
7.5	301.444
8.0	300.556
8.5	299.447
9.0	298.338
9.5	297.229
10.0	296.120
10.5	294.789
11.0	293.458
11.5	292.128
12.0	290.575
12.5	289.244
13.0	287.470
13.5	286.139
14.0	284.364
14.5	282.811
15.0	281.037
15.5	279.262
16.0	277.710
16.5	275.935
17.0	274.604
17.5	272.830
18.0	271.055
18.5	269.281
19.0	267.063
19.5	264.623
20.0	262.183
20.5	259.743
21.0	256.859
21.5	253.976
22.0	250.649
22.5	247.321
23.0	243.551
23.5	239.558
24.0	235.122
24.5	230.464
25.0	225.806
25.5	220.926
26.0	215.824
26.5	210.567

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**CANDELA TABULATION - (Cont.)**

27.0	205.177
27.5	199.632
28.0	193.953
28.5	188.186
29.0	182.397
29.5	176.541
30.0	170.707
30.5	164.829
31.0	158.929
31.5	153.051
32.0	147.217
32.5	141.428
33.0	135.705
33.5	130.093
34.0	124.570
34.5	119.091
35.0	113.746
35.5	108.489
36.0	103.320
36.5	98.197
37.0	93.206
37.5	88.282
38.0	83.468
38.5	78.744
39.0	74.086
39.5	69.494
40.0	65.036
40.5	60.688
41.0	56.451
41.5	52.348
42.0	48.377
42.5	44.540
43.0	40.902
43.5	37.420
44.0	34.115
44.5	31.009
45.0	28.082
45.5	25.331
46.0	22.780
46.5	20.429
47.0	18.277
47.5	16.303
48.0	14.507
48.5	12.865
49.0	11.401
49.5	10.092
50.0	8.917
50.5	7.874
51.0	6.965
51.5	6.189
52.0	5.501
52.5	4.902
53.0	4.392
53.5	3.948
54.0	3.571
54.5	3.238

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**CANDELA TABULATION - (Cont.)**

55.0	2.950
55.5	2.728
56.0	2.529
56.5	2.373
57.0	2.240
57.5	2.107
58.0	1.974
58.5	1.841
59.0	1.730
59.5	1.597
60.0	1.508
60.5	1.397
61.0	1.309
61.5	1.220
62.0	1.131
62.5	1.065
63.0	0.998
63.5	0.932
64.0	0.865
64.5	0.821
65.0	0.754
65.5	0.710
66.0	0.665
66.5	0.621
67.0	0.577
67.5	0.555
68.0	0.510
68.5	0.488
69.0	0.444
69.5	0.421
70.0	0.399
70.5	0.377
71.0	0.355
71.5	0.333
72.0	0.311
72.5	0.288
73.0	0.266
73.5	0.266
74.0	0.244
74.5	0.222
75.0	0.200
75.5	0.200
76.0	0.177
76.5	0.177
77.0	0.155
77.5	0.155
78.0	0.133
78.5	0.133
79.0	0.133
79.5	0.111
80.0	0.111
80.5	0.089
81.0	0.089
81.5	0.089
82.0	0.089
82.5	0.067

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CANDELA TABULATION - (Cont.)

83.0	0.067
83.5	0.067
84.0	0.044
84.5	0.044
85.0	0.044
85.5	0.044
86.0	0.044
86.5	0.022
87.0	0.022
87.5	0.022
88.0	0.022
88.5	0.022
89.0	0.022
89.5	0.022
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	107.90	N.A.	35.00
0-30	209.61	N.A.	68.00
0-40	280.59	N.A.	91.00
0-60	307.33	N.A.	99.60
0-80	308.37	N.A.	100.00
0-90	308.42	N.A.	100.00
10-90	279.58	N.A.	90.60
20-40	172.69	N.A.	56.00
20-50	196.17	N.A.	63.60
40-70	27.55	N.A.	8.90
60-80	1.04	N.A.	0.30
70-80	0.24	N.A.	0.10
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	308.42	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	28.85
10-20	79.05
20-30	101.71
30-40	70.98
40-50	23.48
50-60	3.25
60-70	0.81
70-80	0.24
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

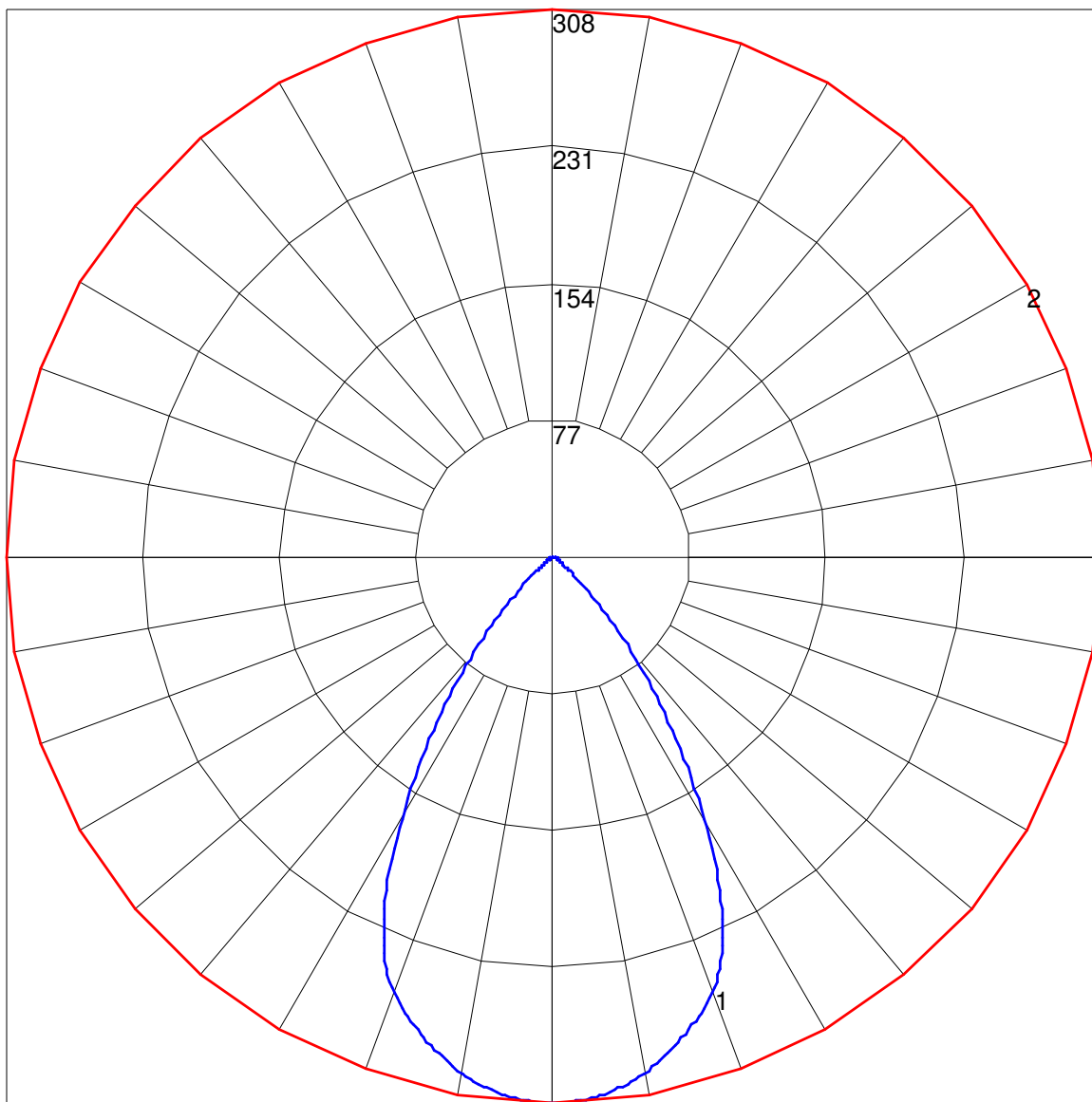
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	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	68	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 = 308.32 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.)