

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6LDR-L10-835-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-L10-835-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	376
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	2653	2653	2653
55	344	344	344
65	119	119	119
75	51	51	51
85	34	34	34

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CANDELA TABULATION

	<u>0</u>
0.0	376.000
0.5	376.000
1.0	376.000
1.5	375.730
2.0	375.459
2.5	375.189
3.0	374.918
3.5	374.106
4.0	373.565
4.5	373.024
5.0	372.213
5.5	371.672
6.0	370.590
6.5	369.778
7.0	368.696
7.5	367.614
8.0	366.532
8.5	365.180
9.0	363.827
9.5	362.475
10.0	361.122
10.5	359.499
11.0	357.876
11.5	356.253
12.0	354.360
12.5	352.737
13.0	350.573
13.5	348.950
14.0	346.786
14.5	344.892
15.0	342.728
15.5	340.564
16.0	338.671
16.5	336.506
17.0	334.883
17.5	332.719
18.0	330.555
18.5	328.391
19.0	325.686
19.5	322.711
20.0	319.735
20.5	316.760
21.0	313.243
21.5	309.727
22.0	305.669
22.5	301.612
23.0	297.013
23.5	292.144
24.0	286.734
24.5	281.053
25.0	275.373
25.5	269.422
26.0	263.200
26.5	256.789

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**CANDELA TABULATION - (Cont.)**

27.0	250.216
27.5	243.453
28.0	236.528
28.5	229.495
29.0	222.435
29.5	215.294
30.0	208.180
30.5	201.011
31.0	193.816
31.5	186.647
32.0	179.533
32.5	172.473
33.0	165.494
33.5	158.650
34.0	151.915
34.5	145.233
35.0	138.714
35.5	132.303
36.0	126.001
36.5	119.752
37.0	113.666
37.5	107.660
38.0	101.791
38.5	96.029
39.0	90.348
39.5	84.749
40.0	79.312
40.5	74.010
41.0	68.843
41.5	63.839
42.0	58.997
42.5	54.317
43.0	49.881
43.5	45.634
44.0	41.603
44.5	37.816
45.0	34.246
45.5	30.892
46.0	27.781
46.5	24.913
47.0	22.289
47.5	19.882
48.0	17.691
48.5	15.689
49.0	13.904
49.5	12.308
50.0	10.874
50.5	9.603
51.0	8.494
51.5	7.547
52.0	6.708
52.5	5.978
53.0	5.356
53.5	4.815
54.0	4.355
54.5	3.949

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CANDELA TABULATION - (Cont.)

55.0	3.598
55.5	3.327
56.0	3.084
56.5	2.894
57.0	2.732
57.5	2.570
58.0	2.407
58.5	2.245
59.0	2.110
59.5	1.948
60.0	1.839
60.5	1.704
61.0	1.596
61.5	1.488
62.0	1.380
62.5	1.298
63.0	1.217
63.5	1.136
64.0	1.055
64.5	1.001
65.0	0.920
65.5	0.866
66.0	0.812
66.5	0.757
67.0	0.703
67.5	0.676
68.0	0.622
68.5	0.595
69.0	0.541
69.5	0.514
70.0	0.487
70.5	0.460
71.0	0.433
71.5	0.406
72.0	0.379
72.5	0.352
73.0	0.325
73.5	0.325
74.0	0.298
74.5	0.271
75.0	0.243
75.5	0.243
76.0	0.216
76.5	0.216
77.0	0.189
77.5	0.189
78.0	0.162
78.5	0.162
79.0	0.162
79.5	0.135
80.0	0.135
80.5	0.108
81.0	0.108
81.5	0.108
82.0	0.108
82.5	0.081

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CANDELA TABULATION - (Cont.)

83.0	0.081
83.5	0.081
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
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	131.59	N.A.	35.00
0-30	255.62	N.A.	68.00
0-40	342.18	N.A.	91.00
0-60	374.79	N.A.	99.60
0-80	376.06	N.A.	100.00
0-90	376.13	N.A.	100.00
10-90	340.95	N.A.	90.60
20-40	210.59	N.A.	56.00
20-50	239.23	N.A.	63.60
40-70	33.59	N.A.	8.90
60-80	1.27	N.A.	0.30
70-80	0.29	N.A.	0.10
80-90	0.07	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	376.13	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	35.18
10-20	96.41
20-30	124.03
30-40	86.56
40-50	28.64
50-60	3.97
60-70	0.99
70-80	0.29
80-90	0.07
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

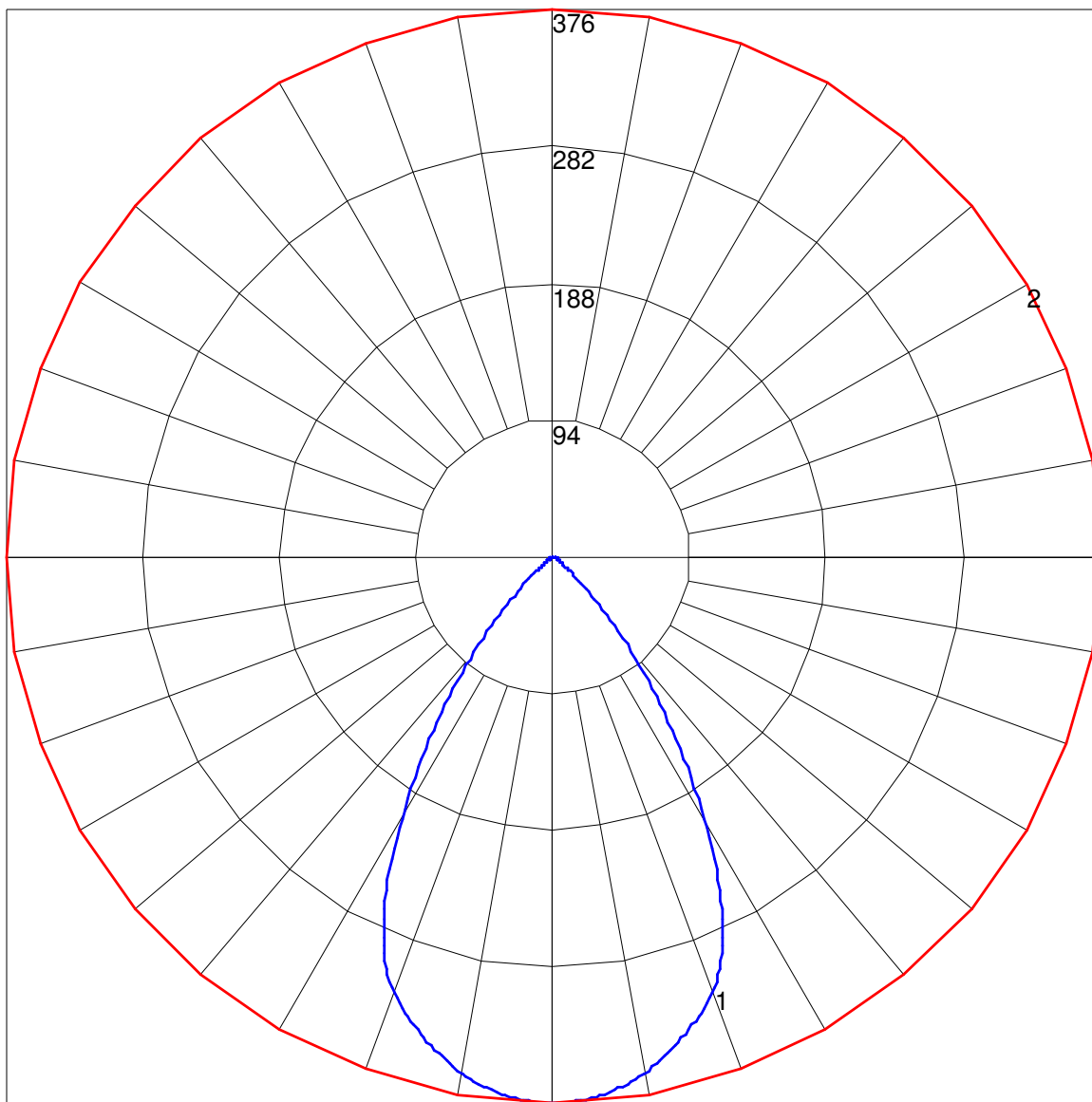
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	103	101	101	99	98	97	96	95	93
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86
3	102	96	90	86	100	94	89	86	91	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	66	74	69	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	59	54	51	59	54	50	58	54	50	49

POLAR GRAPH



Maximum Candela = 376 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.)