

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6LDR-L15-835-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-L15-835-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	570
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	41
Total Luminaire Watts	13.8
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	4021	4021	4021
55	521	521	521
65	181	181	181
75	78	78	78
85	52	52	52

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CANDELA TABULATION

	<u>0</u>
0.0	570.000
0.5	570.000
1.0	570.000
1.5	569.590
2.0	569.180
2.5	568.770
3.0	568.360
3.5	567.129
4.0	566.309
4.5	565.489
5.0	564.259
5.5	563.439
6.0	561.799
6.5	560.568
7.0	558.928
7.5	557.288
8.0	555.647
8.5	553.597
9.0	551.547
9.5	549.496
10.0	547.446
10.5	544.986
11.0	542.525
11.5	540.065
12.0	537.194
12.5	534.734
13.0	531.453
13.5	528.993
14.0	525.712
14.5	522.842
15.0	519.561
15.5	516.281
16.0	513.410
16.5	510.129
17.0	507.669
17.5	504.388
18.0	501.108
18.5	497.827
19.0	493.727
19.5	489.216
20.0	484.705
20.5	480.194
21.0	474.863
21.5	469.532
22.0	463.381
22.5	457.230
23.0	450.259
23.5	442.878
24.0	434.676
24.5	426.065
25.0	417.453
25.5	408.432
26.0	399.000
26.5	389.281

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CANDELA TABULATION - (Cont.)

27.0	379.317
27.5	369.065
28.0	358.567
28.5	347.905
29.0	337.202
29.5	326.376
30.0	315.591
30.5	304.724
31.0	293.817
31.5	282.950
32.0	272.165
32.5	261.462
33.0	250.882
33.5	240.507
34.0	230.296
34.5	220.168
35.0	210.285
35.5	200.566
36.0	191.011
36.5	181.539
37.0	172.312
37.5	163.209
38.0	154.310
38.5	145.576
39.0	136.964
39.5	128.476
40.0	120.233
40.5	112.196
41.0	104.363
41.5	96.777
42.0	89.437
42.5	82.342
43.0	75.617
43.5	69.179
44.0	63.069
44.5	57.328
45.0	51.915
45.5	46.830
46.0	42.114
46.5	37.768
47.0	33.790
47.5	30.140
48.0	26.819
48.5	23.784
49.0	21.078
49.5	18.658
50.0	16.485
50.5	14.558
51.0	12.876
51.5	11.441
52.0	10.170
52.5	9.063
53.0	8.119
53.5	7.299
54.0	6.602
54.5	5.987

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CANDELA TABULATION - (Cont.)

55.0	5.454
55.5	5.044
56.0	4.675
56.5	4.388
57.0	4.142
57.5	3.896
58.0	3.650
58.5	3.404
59.0	3.199
59.5	2.953
60.0	2.788
60.5	2.583
61.0	2.419
61.5	2.255
62.0	2.091
62.5	1.968
63.0	1.845
63.5	1.722
64.0	1.599
64.5	1.517
65.0	1.394
65.5	1.312
66.0	1.230
66.5	1.148
67.0	1.066
67.5	1.025
68.0	0.943
68.5	0.902
69.0	0.820
69.5	0.779
70.0	0.738
70.5	0.697
71.0	0.656
71.5	0.615
72.0	0.574
72.5	0.533
73.0	0.492
73.5	0.492
74.0	0.451
74.5	0.410
75.0	0.369
75.5	0.369
76.0	0.328
76.5	0.328
77.0	0.287
77.5	0.287
78.0	0.246
78.5	0.246
79.0	0.246
79.5	0.205
80.0	0.205
80.5	0.164
81.0	0.164
81.5	0.164
82.0	0.164
82.5	0.123

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CANDELA TABULATION - (Cont.)

83.0	0.123
83.5	0.123
84.0	0.082
84.5	0.082
85.0	0.082
85.5	0.082
86.0	0.082
86.5	0.041
87.0	0.041
87.5	0.041
88.0	0.041
88.5	0.041
89.0	0.041
89.5	0.041
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	199.48	N.A.	35.00
0-30	387.51	N.A.	68.00
0-40	518.73	N.A.	91.00
0-60	568.16	N.A.	99.60
0-80	570.09	N.A.	100.00
0-90	570.19	N.A.	100.00
10-90	516.86	N.A.	90.60
20-40	319.25	N.A.	56.00
20-50	362.67	N.A.	63.60
40-70	50.93	N.A.	8.90
60-80	1.93	N.A.	0.30
70-80	0.44	N.A.	0.10
80-90	0.10	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	570.19	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	53.33
10-20	146.15
20-30	188.02
30-40	131.22
40-50	43.42
50-60	6.02
60-70	1.49
70-80	0.44
80-90	0.10
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

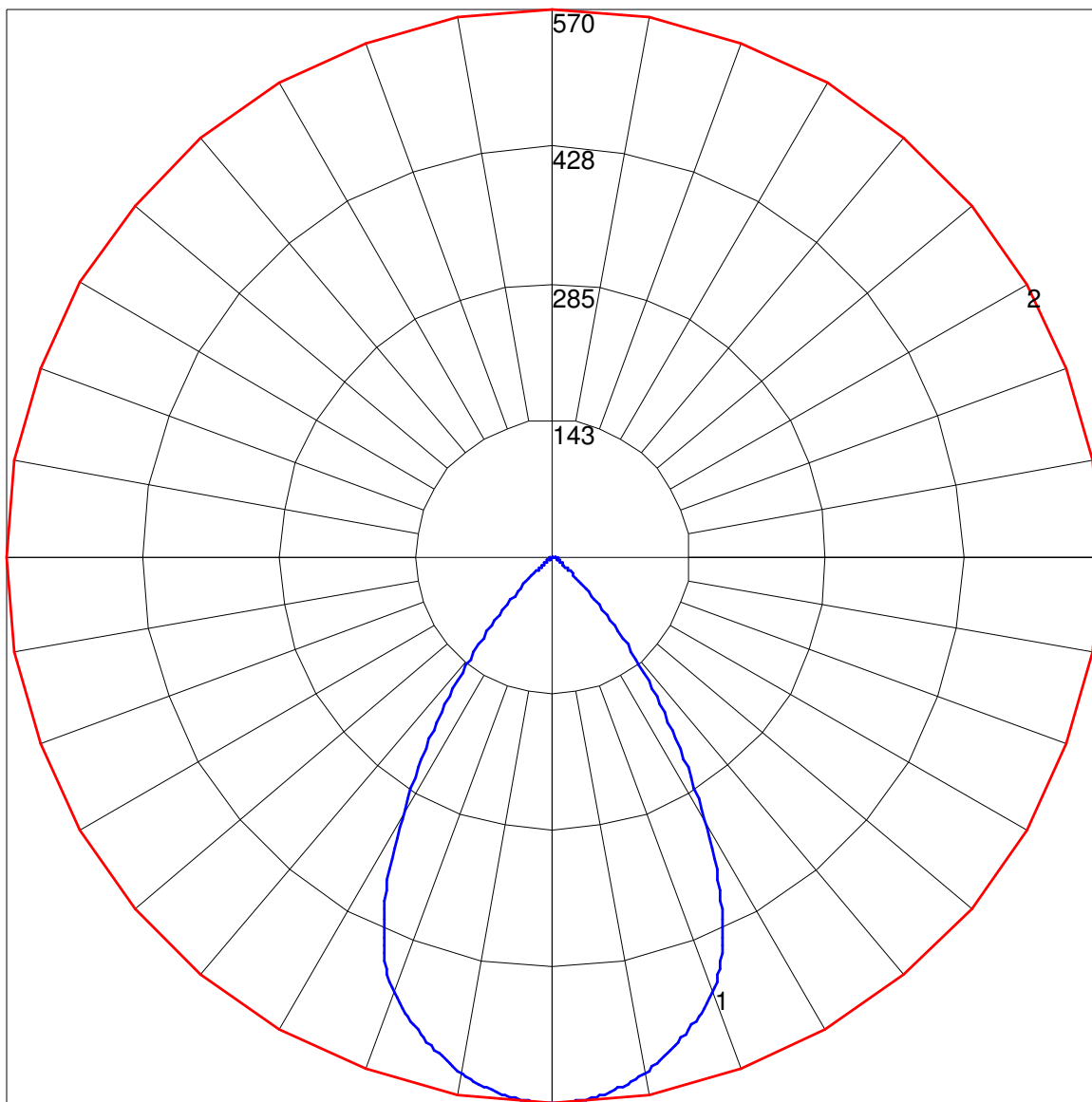
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 570 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.)