

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6LDR-L15-935-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-L15-935-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	473
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	34
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	3338	3338	3338
55	432	432	432
65	150	150	150
75	65	65	65
85	43	43	43

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CANDELA TABULATION

	<u>0</u>
0.0	473.100
0.5	473.100
1.0	473.100
1.5	472.760
2.0	472.419
2.5	472.079
3.0	471.739
3.5	470.717
4.0	470.037
4.5	469.356
5.0	468.335
5.5	467.654
6.0	466.293
6.5	465.272
7.0	463.910
7.5	462.549
8.0	461.187
8.5	459.486
9.0	457.784
9.5	456.082
10.0	454.380
10.5	452.338
11.0	450.296
11.5	448.254
12.0	445.871
12.5	443.829
13.0	441.106
13.5	439.064
14.0	436.341
14.5	433.959
15.0	431.236
15.5	428.513
16.0	426.130
16.5	423.407
17.0	421.365
17.5	418.642
18.0	415.920
18.5	413.197
19.0	409.793
19.5	406.049
20.0	402.305
20.5	398.561
21.0	394.137
21.5	389.712
22.0	384.606
22.5	379.501
23.0	373.715
23.5	367.588
24.0	360.781
24.5	353.634
25.0	346.486
25.5	338.998
26.0	331.170
26.5	323.103

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CANDELA TABULATION - (Cont.)

27.0	314.833
27.5	306.324
28.0	297.611
28.5	288.761
29.0	279.878
29.5	270.892
30.0	261.941
30.5	252.921
31.0	243.868
31.5	234.848
32.0	225.897
32.5	217.013
33.0	208.232
33.5	199.621
34.0	191.146
34.5	182.739
35.0	174.536
35.5	166.470
36.0	158.540
36.5	150.677
37.0	143.019
37.5	135.463
38.0	128.077
38.5	120.828
39.0	113.680
39.5	106.635
40.0	99.793
40.5	93.122
41.0	86.622
41.5	80.325
42.0	74.232
42.5	68.344
43.0	62.762
43.5	57.419
44.0	52.347
44.5	47.582
45.0	43.090
45.5	38.869
46.0	34.955
46.5	31.347
47.0	28.046
47.5	25.016
48.0	22.260
48.5	19.741
49.0	17.494
49.5	15.486
50.0	13.682
50.5	12.083
51.0	10.687
51.5	9.496
52.0	8.441
52.5	7.522
53.0	6.739
53.5	6.058
54.0	5.480
54.5	4.969

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CANDELA TABULATION - (Cont.)

55.0	4.527
55.5	4.186
56.0	3.880
56.5	3.642
57.0	3.438
57.5	3.233
58.0	3.029
58.5	2.825
59.0	2.655
59.5	2.451
60.0	2.314
60.5	2.144
61.0	2.008
61.5	1.872
62.0	1.736
62.5	1.634
63.0	1.532
63.5	1.430
64.0	1.327
64.5	1.259
65.0	1.157
65.5	1.089
66.0	1.021
66.5	0.953
67.0	0.885
67.5	0.851
68.0	0.783
68.5	0.749
69.0	0.681
69.5	0.647
70.0	0.613
70.5	0.579
71.0	0.545
71.5	0.511
72.0	0.477
72.5	0.442
73.0	0.408
73.5	0.408
74.0	0.374
74.5	0.340
75.0	0.306
75.5	0.306
76.0	0.272
76.5	0.272
77.0	0.238
77.5	0.238
78.0	0.204
78.5	0.204
79.0	0.204
79.5	0.170
80.0	0.170
80.5	0.136
81.0	0.136
81.5	0.136
82.0	0.136
82.5	0.102

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CANDELA TABULATION - (Cont.)

83.0	0.102
83.5	0.102
84.0	0.068
84.5	0.068
85.0	0.068
85.5	0.068
86.0	0.068
86.5	0.034
87.0	0.034
87.5	0.034
88.0	0.034
88.5	0.034
89.0	0.034
89.5	0.034
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	165.57	N.A.	35.00
0-30	321.63	N.A.	68.00
0-40	430.55	N.A.	91.00
0-60	471.58	N.A.	99.60
0-80	473.18	N.A.	100.00
0-90	473.26	N.A.	100.00
10-90	428.99	N.A.	90.60
20-40	264.98	N.A.	56.00
20-50	301.01	N.A.	63.60
40-70	42.27	N.A.	8.90
60-80	1.60	N.A.	0.30
70-80	0.36	N.A.	0.10
80-90	0.08	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	473.26	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	44.27
10-20	121.30
20-30	156.06
30-40	108.92
40-50	36.04
50-60	4.99
60-70	1.24
70-80	0.36
80-90	0.08
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

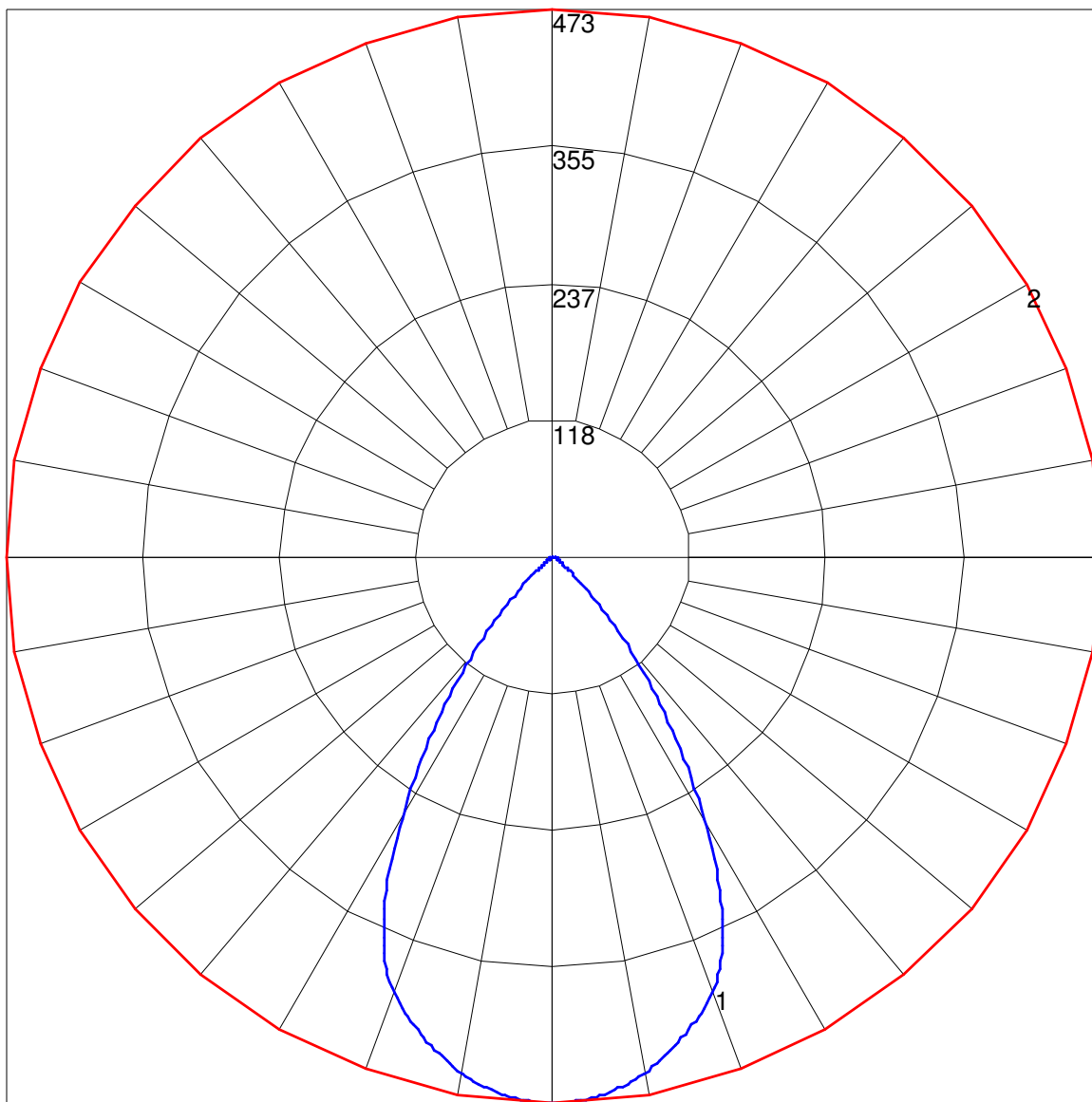
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	87
3	102	96	90	86	100	94	89	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	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 = 473.1 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.)