

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6LDR-L10-935-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-L10-935-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	312
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	34
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	2202	2202	2202
55	285	285	285
65	99	99	99
75	43	43	43
85	28	28	28

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CANDELA TABULATION

	<u>0</u>
0.0	312.080
0.5	312.080
1.0	312.080
1.5	311.856
2.0	311.631
2.5	311.406
3.0	311.182
3.5	310.508
4.0	310.059
4.5	309.610
5.0	308.937
5.5	308.488
6.0	307.590
6.5	306.916
7.0	306.018
7.5	305.120
8.0	304.222
8.5	303.099
9.0	301.977
9.5	300.854
10.0	299.732
10.5	298.384
11.0	297.037
11.5	295.690
12.0	294.119
12.5	292.771
13.0	290.975
13.5	289.628
14.0	287.832
14.5	286.260
15.0	284.464
15.5	282.668
16.0	281.097
16.5	279.300
17.0	277.953
17.5	276.157
18.0	274.361
18.5	272.565
19.0	270.320
19.5	267.850
20.0	265.380
20.5	262.911
21.0	259.992
21.5	257.073
22.0	253.705
22.5	250.338
23.0	246.521
23.5	242.479
24.0	237.989
24.5	233.274
25.0	228.559
25.5	223.620
26.0	218.456
26.5	213.135

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CANDELA TABULATION - (Cont.)

27.0	207.679
27.5	202.066
28.0	196.319
28.5	190.481
29.0	184.621
29.5	178.694
30.0	172.789
30.5	166.839
31.0	160.867
31.5	154.917
32.0	149.013
32.5	143.153
33.0	137.360
33.5	131.680
34.0	126.089
34.5	120.544
35.0	115.133
35.5	109.812
36.0	104.580
36.5	99.394
37.0	94.342
37.5	89.358
38.0	84.486
38.5	79.704
39.0	74.989
39.5	70.341
40.0	65.829
40.5	61.428
41.0	57.140
41.5	52.986
42.0	48.967
42.5	45.083
43.0	41.401
43.5	37.876
44.0	34.531
44.5	31.388
45.0	28.424
45.5	25.640
46.0	23.058
46.5	20.678
47.0	18.500
47.5	16.502
48.0	14.683
48.5	13.022
49.0	11.540
49.5	10.216
50.0	9.026
50.5	7.970
51.0	7.050
51.5	6.264
52.0	5.568
52.5	4.962
53.0	4.445
53.5	3.996
54.0	3.615
54.5	3.278

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CANDELA TABULATION - (Cont.)

55.0	2.986
55.5	2.762
56.0	2.560
56.5	2.402
57.0	2.268
57.5	2.133
58.0	1.998
58.5	1.863
59.0	1.751
59.5	1.617
60.0	1.527
60.5	1.414
61.0	1.325
61.5	1.235
62.0	1.145
62.5	1.078
63.0	1.010
63.5	0.943
64.0	0.876
64.5	0.831
65.0	0.763
65.5	0.718
66.0	0.674
66.5	0.629
67.0	0.584
67.5	0.561
68.0	0.516
68.5	0.494
69.0	0.449
69.5	0.427
70.0	0.404
70.5	0.382
71.0	0.359
71.5	0.337
72.0	0.314
72.5	0.292
73.0	0.269
73.5	0.269
74.0	0.247
74.5	0.225
75.0	0.202
75.5	0.202
76.0	0.180
76.5	0.180
77.0	0.157
77.5	0.157
78.0	0.135
78.5	0.135
79.0	0.135
79.5	0.112
80.0	0.112
80.5	0.090
81.0	0.090
81.5	0.090
82.0	0.090
82.5	0.067

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CANDELA TABULATION - (Cont.)

83.0	0.067
83.5	0.067
84.0	0.045
84.5	0.045
85.0	0.045
85.5	0.045
86.0	0.045
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	109.22	N.A.	35.00
0-30	212.16	N.A.	68.00
0-40	284.01	N.A.	91.00
0-60	311.07	N.A.	99.60
0-80	312.13	N.A.	100.00
0-90	312.19	N.A.	100.00
10-90	282.99	N.A.	90.60
20-40	174.79	N.A.	56.00
20-50	198.56	N.A.	63.60
40-70	27.88	N.A.	8.90
60-80	1.06	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	312.19	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	29.20
10-20	80.02
20-30	102.95
30-40	71.85
40-50	23.77
50-60	3.29
60-70	0.82
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

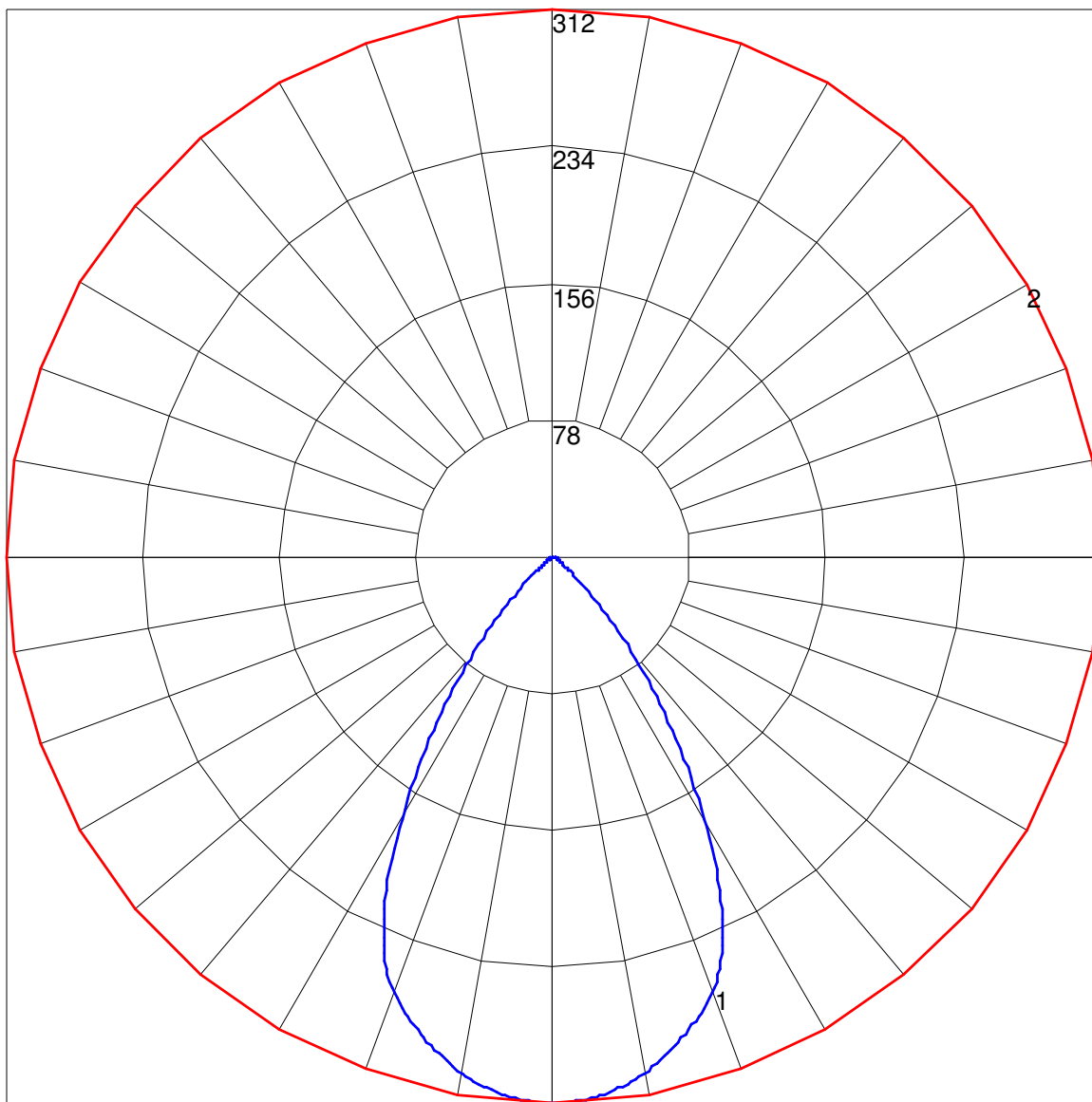
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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 = 312.08 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.)