

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6LDR-L10-840-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-L10-840-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	387
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	42
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	2732	2732	2732
55	354	354	354
65	123	123	123
75	53	53	53
85	35	35	35

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CANDELA TABULATION

	<u>0</u>
0.0	387.280
0.5	387.280
1.0	387.280
1.5	387.001
2.0	386.723
2.5	386.444
3.0	386.166
3.5	385.330
4.0	384.772
4.5	384.215
5.0	383.379
5.5	382.822
6.0	381.708
6.5	380.872
7.0	379.757
7.5	378.643
8.0	377.528
8.5	376.135
9.0	374.742
9.5	373.349
10.0	371.956
10.5	370.284
11.0	368.613
11.5	366.941
12.0	364.990
12.5	363.319
13.0	361.090
13.5	359.418
14.0	357.189
14.5	355.239
15.0	353.010
15.5	350.781
16.0	348.831
16.5	346.602
17.0	344.930
17.5	342.701
18.0	340.472
18.5	338.243
19.0	335.457
19.5	332.392
20.0	329.327
20.5	326.262
21.0	322.640
21.5	319.018
22.0	314.839
22.5	310.660
23.0	305.923
23.5	300.908
24.0	295.336
24.5	289.485
25.0	283.634
25.5	277.504
26.0	271.096
26.5	264.493

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CANDELA TABULATION - (Cont.)

27.0	257.722
27.5	250.757
28.0	243.624
28.5	236.380
29.0	229.108
29.5	221.753
30.0	214.425
30.5	207.042
31.0	199.630
31.5	192.247
32.0	184.919
32.5	177.647
33.0	170.459
33.5	163.410
34.0	156.472
34.5	149.590
35.0	142.876
35.5	136.272
36.0	129.781
36.5	123.344
37.0	117.076
37.5	110.890
38.0	104.844
38.5	98.910
39.0	93.059
39.5	87.291
40.0	81.691
40.5	76.230
41.0	70.908
41.5	65.754
42.0	60.767
42.5	55.947
43.0	51.377
43.5	47.003
44.0	42.852
44.5	38.951
45.0	35.273
45.5	31.818
46.0	28.614
46.5	25.661
47.0	22.958
47.5	20.478
48.0	18.222
48.5	16.160
49.0	14.321
49.5	12.677
50.0	11.200
50.5	9.891
51.0	8.749
51.5	7.773
52.0	6.910
52.5	6.157
53.0	5.517
53.5	4.959
54.0	4.486
54.5	4.068

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CANDELA TABULATION - (Cont.)

55.0	3.706
55.5	3.427
56.0	3.176
56.5	2.981
57.0	2.814
57.5	2.647
58.0	2.480
58.5	2.313
59.0	2.173
59.5	2.006
60.0	1.895
60.5	1.755
61.0	1.644
61.5	1.532
62.0	1.421
62.5	1.337
63.0	1.254
63.5	1.170
64.0	1.087
64.5	1.031
65.0	0.947
65.5	0.892
66.0	0.836
66.5	0.780
67.0	0.724
67.5	0.697
68.0	0.641
68.5	0.613
69.0	0.557
69.5	0.529
70.0	0.502
70.5	0.474
71.0	0.446
71.5	0.418
72.0	0.390
72.5	0.362
73.0	0.334
73.5	0.334
74.0	0.306
74.5	0.279
75.0	0.251
75.5	0.251
76.0	0.223
76.5	0.223
77.0	0.195
77.5	0.195
78.0	0.167
78.5	0.167
79.0	0.167
79.5	0.139
80.0	0.139
80.5	0.111
81.0	0.111
81.5	0.111
82.0	0.111
82.5	0.084

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CANDELA TABULATION - (Cont.)

83.0	0.084
83.5	0.084
84.0	0.056
84.5	0.056
85.0	0.056
85.5	0.056
86.0	0.056
86.5	0.028
87.0	0.028
87.5	0.028
88.0	0.028
88.5	0.028
89.0	0.028
89.5	0.028
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	135.54	N.A.	35.00
0-30	263.29	N.A.	68.00
0-40	352.45	N.A.	91.00
0-60	386.03	N.A.	99.60
0-80	387.34	N.A.	100.00
0-90	387.41	N.A.	100.00
10-90	351.18	N.A.	90.60
20-40	216.91	N.A.	56.00
20-50	246.41	N.A.	63.60
40-70	34.60	N.A.	8.90
60-80	1.31	N.A.	0.30
70-80	0.30	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	387.41	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	36.24
10-20	99.30
20-30	127.75
30-40	89.16
40-50	29.50
50-60	4.09
60-70	1.02
70-80	0.30
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

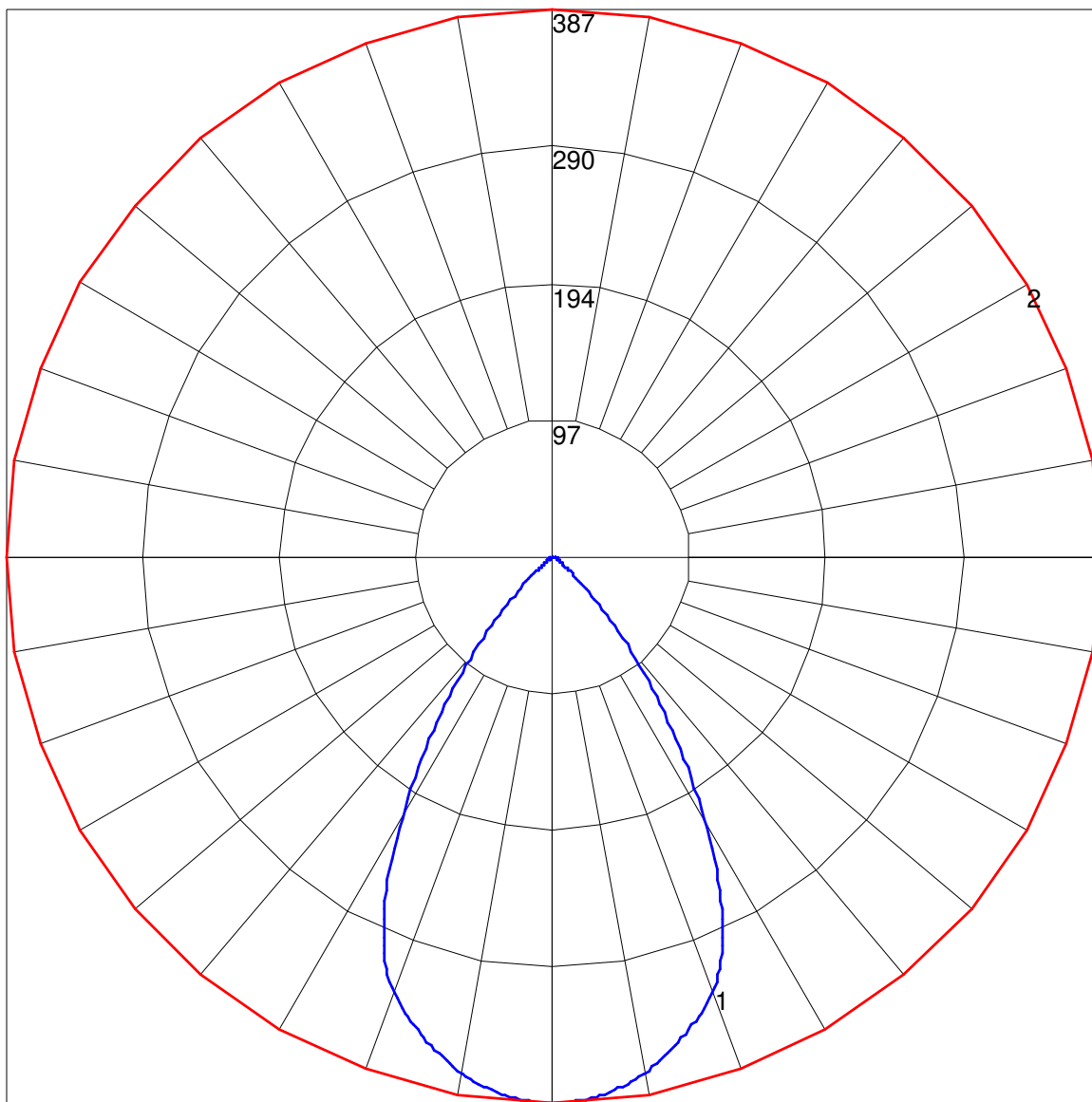
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	114	111	108	106	111	109	106	104	104	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	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	60	54	51	59	54	51	58	54	50	49

POLAR GRAPH



Maximum Candela = 387.28 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.)