

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6LDR-L15-940-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-L15-940-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	490
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	36
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	3458	3458	3458
55	448	448	448
65	155	155	155
75	67	67	67
85	45	45	45

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CANDELA TABULATION

	<u>0</u>
0.0	490.200
0.5	490.200
1.0	490.200
1.5	489.847
2.0	489.495
2.5	489.142
3.0	488.789
3.5	487.731
4.0	487.026
4.5	486.321
5.0	485.263
5.5	484.557
6.0	483.147
6.5	482.089
7.0	480.678
7.5	479.268
8.0	477.857
8.5	476.094
9.0	474.330
9.5	472.567
10.0	470.804
10.5	468.688
11.0	466.572
11.5	464.456
12.0	461.987
12.5	459.871
13.0	457.050
13.5	454.934
14.0	452.113
14.5	449.644
15.0	446.823
15.5	444.001
16.0	441.533
16.5	438.711
17.0	436.595
17.5	433.774
18.0	430.953
18.5	428.132
19.0	424.605
19.5	420.726
20.0	416.846
20.5	412.967
21.0	408.382
21.5	403.798
22.0	398.508
22.5	393.218
23.0	387.223
23.5	380.875
24.0	373.822
24.5	366.416
25.0	359.010
25.5	351.251
26.0	343.140
26.5	334.782

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6LDR-L15-940-BL-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

27.0	326.212
27.5	317.396
28.0	308.368
28.5	299.198
29.0	289.994
29.5	280.684
30.0	271.409
30.5	262.063
31.0	252.682
31.5	243.337
32.0	234.062
32.5	224.857
33.0	215.759
33.5	206.836
34.0	198.055
34.5	189.344
35.0	180.845
35.5	172.487
36.0	164.270
36.5	156.123
37.0	148.189
37.5	140.359
38.0	132.707
38.5	125.195
39.0	117.789
39.5	110.489
40.0	103.400
40.5	96.488
41.0	89.752
41.5	83.228
42.0	76.916
42.5	70.815
43.0	65.031
43.5	59.494
44.0	54.239
44.5	49.302
45.0	44.647
45.5	40.274
46.0	36.218
46.5	32.480
47.0	29.059
47.5	25.921
48.0	23.064
48.5	20.454
49.0	18.127
49.5	16.046
50.0	14.177
50.5	12.519
51.0	11.074
51.5	9.839
52.0	8.746
52.5	7.794
53.0	6.983
53.5	6.277
54.0	5.678
54.5	5.149

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PHOTOMETRIC FILENAME : 6LDR-L15-940-BL-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

55.0	4.690
55.5	4.338
56.0	4.020
56.5	3.773
57.0	3.562
57.5	3.350
58.0	3.139
58.5	2.927
59.0	2.751
59.5	2.539
60.0	2.398
60.5	2.222
61.0	2.081
61.5	1.940
62.0	1.799
62.5	1.693
63.0	1.587
63.5	1.481
64.0	1.375
64.5	1.305
65.0	1.199
65.5	1.129
66.0	1.058
66.5	0.987
67.0	0.917
67.5	0.882
68.0	0.811
68.5	0.776
69.0	0.705
69.5	0.670
70.0	0.635
70.5	0.600
71.0	0.564
71.5	0.529
72.0	0.494
72.5	0.458
73.0	0.423
73.5	0.423
74.0	0.388
74.5	0.353
75.0	0.317
75.5	0.317
76.0	0.282
76.5	0.282
77.0	0.247
77.5	0.247
78.0	0.212
78.5	0.212
79.0	0.212
79.5	0.176
80.0	0.176
80.5	0.141
81.0	0.141
81.5	0.141
82.0	0.141
82.5	0.106

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6LDR-L15-940-BL-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

83.0	0.106
83.5	0.106
84.0	0.071
84.5	0.071
85.0	0.071
85.5	0.071
86.0	0.071
86.5	0.035
87.0	0.035
87.5	0.035
88.0	0.035
88.5	0.035
89.0	0.035
89.5	0.035
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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PHOTOMETRIC FILENAME : 6LDR-L15-940-BL-DIM-UNV_.IES

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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6LDR-L15-940-BL-DIM-UNV_.IES

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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PHOTOMETRIC FILENAME : 6LDR-L15-940-BL-DIM-UNV_.IES

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	171.55	N.A.	35.00
0-30	333.26	N.A.	68.00
0-40	446.11	N.A.	91.00
0-60	488.62	N.A.	99.60
0-80	490.28	N.A.	100.00
0-90	490.37	N.A.	100.00
10-90	444.50	N.A.	90.60
20-40	274.55	N.A.	56.00
20-50	311.89	N.A.	63.60
40-70	43.80	N.A.	8.90
60-80	1.66	N.A.	0.30
70-80	0.38	N.A.	0.10
80-90	0.09	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	490.37	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	45.87
10-20	125.69
20-30	161.70
30-40	112.85
40-50	37.34
50-60	5.17
60-70	1.29
70-80	0.38
80-90	0.09
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

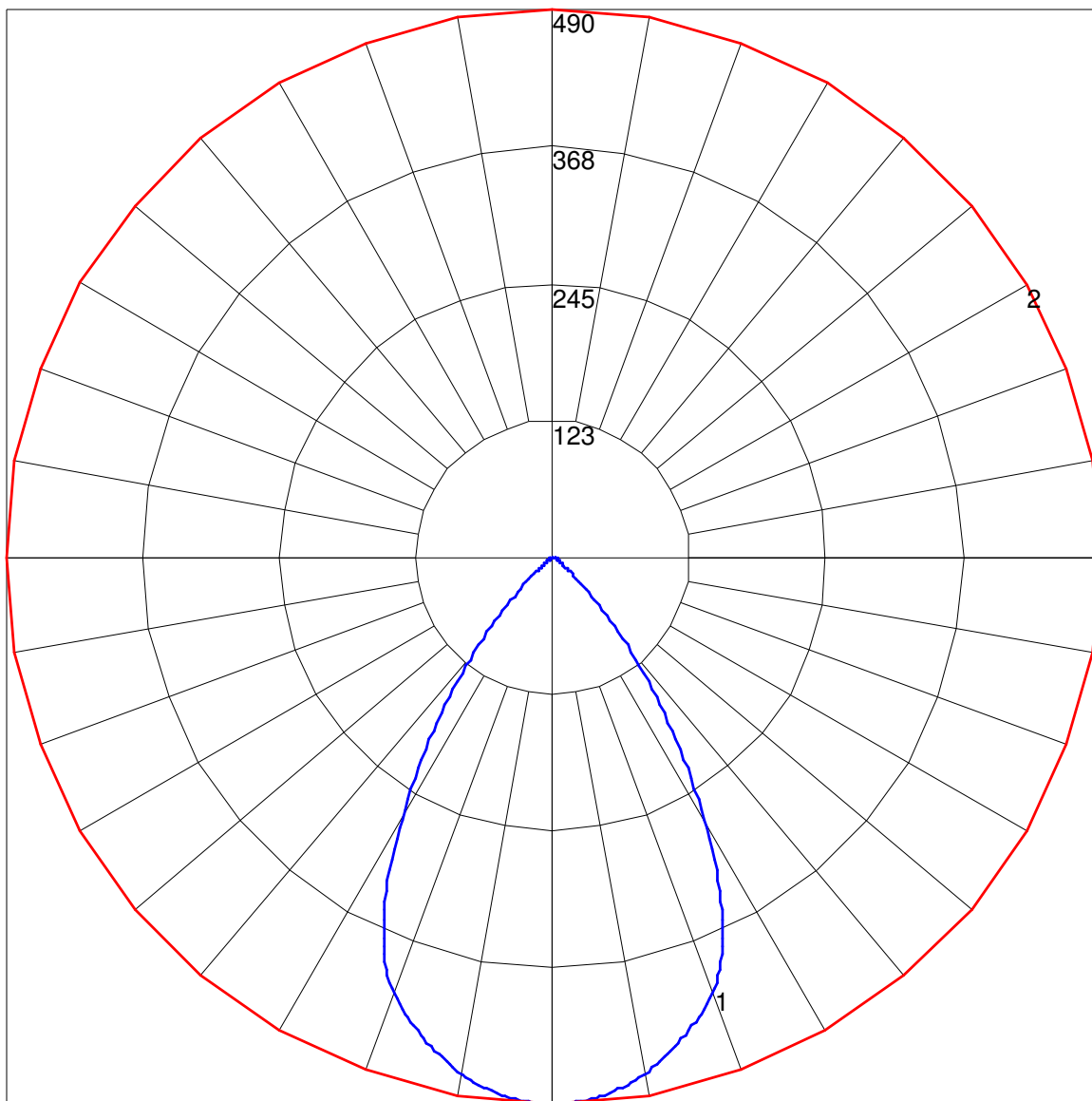
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	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	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	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 = 490.2 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.)