

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6LDR-L20-930-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-L20-930-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	614
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	36
Total Luminaire Watts	17
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	4333	4333	4333
55	561	561	561
65	195	195	195
75	84	84	84
85	55	55	55

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CANDELA TABULATION

	<u>0</u>
0.0	614.180
0.5	614.180
1.0	614.180
1.5	613.738
2.0	613.296
2.5	612.854
3.0	612.413
3.5	611.087
4.0	610.203
4.5	609.320
5.0	607.994
5.5	607.110
6.0	605.343
6.5	604.017
7.0	602.250
7.5	600.482
8.0	598.715
8.5	596.506
9.0	594.296
9.5	592.087
10.0	589.878
10.5	587.227
11.0	584.576
11.5	581.924
12.0	578.831
12.5	576.180
13.0	572.645
13.5	569.994
14.0	566.460
14.5	563.367
15.0	559.832
15.5	556.297
16.0	553.204
16.5	549.669
17.0	547.018
17.5	543.483
18.0	539.948
18.5	536.413
19.0	531.995
19.5	527.134
20.0	522.274
20.5	517.413
21.0	511.669
21.5	505.925
22.0	499.297
22.5	492.670
23.0	485.158
23.5	477.205
24.0	468.367
24.5	459.088
25.0	449.809
25.5	440.089
26.0	429.926
26.5	419.454

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6LDR-L20-930-BL-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

27.0	408.717
27.5	397.670
28.0	386.359
28.5	374.871
29.0	363.338
29.5	351.673
30.0	340.052
30.5	328.343
31.0	316.590
31.5	304.881
32.0	293.260
32.5	281.727
33.0	270.328
33.5	259.149
34.0	248.146
34.5	237.233
35.0	226.584
35.5	216.112
36.0	205.817
36.5	195.610
37.0	185.668
37.5	175.859
38.0	166.270
38.5	156.859
39.0	147.580
39.5	138.434
40.0	129.552
40.5	120.892
41.0	112.452
41.5	104.278
42.0	96.369
42.5	88.725
43.0	81.478
43.5	74.541
44.0	67.957
44.5	61.771
45.0	55.939
45.5	50.460
46.0	45.379
46.5	40.695
47.0	36.409
47.5	32.476
48.0	28.897
48.5	25.628
49.0	22.711
49.5	20.104
50.0	17.763
50.5	15.686
51.0	13.874
51.5	12.328
52.0	10.958
52.5	9.765
53.0	8.749
53.5	7.865
54.0	7.114
54.5	6.451

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PHOTOMETRIC FILENAME : 6LDR-L20-930-BL-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

55.0	5.877
55.5	5.435
56.0	5.037
56.5	4.728
57.0	4.463
57.5	4.198
58.0	3.933
58.5	3.667
59.0	3.446
59.5	3.181
60.0	3.005
60.5	2.784
61.0	2.607
61.5	2.430
62.0	2.253
62.5	2.121
63.0	1.988
63.5	1.856
64.0	1.723
64.5	1.635
65.0	1.502
65.5	1.414
66.0	1.326
66.5	1.237
67.0	1.149
67.5	1.105
68.0	1.016
68.5	0.972
69.0	0.884
69.5	0.840
70.0	0.795
70.5	0.751
71.0	0.707
71.5	0.663
72.0	0.619
72.5	0.574
73.0	0.530
73.5	0.530
74.0	0.486
74.5	0.442
75.0	0.398
75.5	0.398
76.0	0.353
76.5	0.353
77.0	0.309
77.5	0.309
78.0	0.265
78.5	0.265
79.0	0.265
79.5	0.221
80.0	0.221
80.5	0.177
81.0	0.177
81.5	0.177
82.0	0.177
82.5	0.133

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6LDR-L20-930-BL-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

83.0	0.133
83.5	0.133
84.0	0.088
84.5	0.088
85.0	0.088
85.5	0.088
86.0	0.088
86.5	0.044
87.0	0.044
87.5	0.044
88.0	0.044
88.5	0.044
89.0	0.044
89.5	0.044
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-L20-930-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-L20-930-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-L20-930-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	214.94	N.A.	35.00
0-30	417.54	N.A.	68.00
0-40	558.94	N.A.	91.00
0-60	612.20	N.A.	99.60
0-80	614.28	N.A.	100.00
0-90	614.39	N.A.	100.00
10-90	556.92	N.A.	90.60
20-40	343.99	N.A.	56.00
20-50	390.78	N.A.	63.60
40-70	54.87	N.A.	8.90
60-80	2.08	N.A.	0.30
70-80	0.47	N.A.	0.10
80-90	0.11	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	614.39	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	57.47
10-20	157.48
20-30	202.60
30-40	141.40
40-50	46.78
50-60	6.48
60-70	1.61
70-80	0.47
80-90	0.11
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

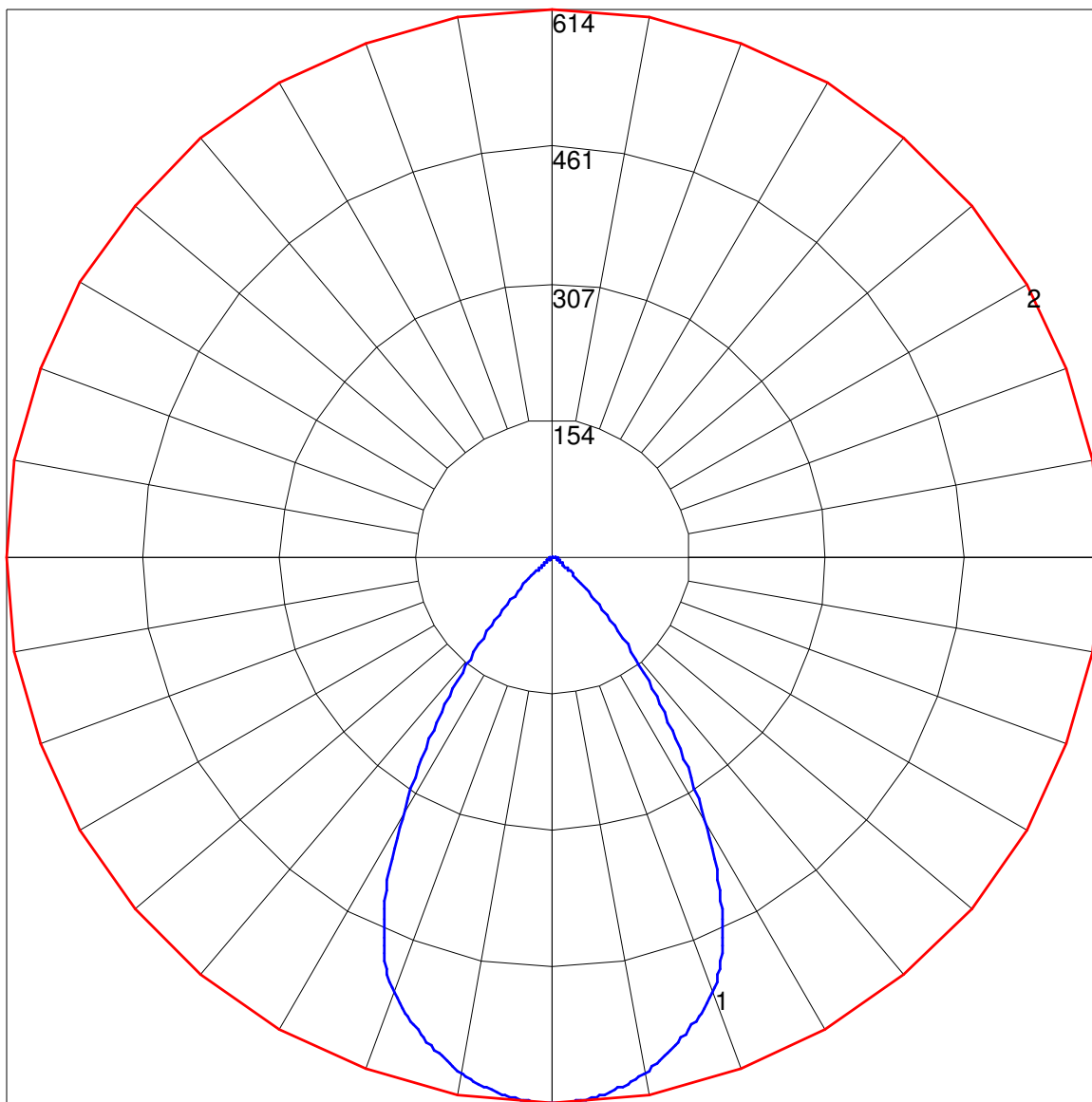
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 614.18 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.)