

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6LDR-L20-935-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-L20-935-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	622
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	37
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	4386	4386	4386
55	568	568	568
65	197	197	197
75	85	85	85
85	56	56	56

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6LDR-L20-935-BL-DIM-UNV_.IES

CANDELA TABULATION

	<u>0</u>
0.0	621.670
0.5	621.670
1.0	621.670
1.5	621.223
2.0	620.776
2.5	620.328
3.0	619.881
3.5	618.539
4.0	617.645
4.5	616.750
5.0	615.409
5.5	614.514
6.0	612.725
6.5	611.383
7.0	609.594
7.5	607.805
8.0	606.016
8.5	603.780
9.0	601.544
9.5	599.308
10.0	597.072
10.5	594.388
11.0	591.705
11.5	589.021
12.0	585.890
12.5	583.207
13.0	579.629
13.5	576.946
14.0	573.368
14.5	570.237
15.0	566.659
15.5	563.081
16.0	559.950
16.5	556.372
17.0	553.689
17.5	550.111
18.0	546.533
18.5	542.955
19.0	538.483
19.5	533.563
20.0	528.643
20.5	523.723
21.0	517.909
21.5	512.095
22.0	505.386
22.5	498.678
23.0	491.075
23.5	483.024
24.0	474.079
24.5	464.687
25.0	455.295
25.5	445.456
26.0	435.169
26.5	424.569

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6LDR-L20-935-BL-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

27.0	413.701
27.5	402.520
28.0	391.071
28.5	379.442
29.0	367.769
29.5	355.962
30.0	344.199
30.5	332.347
31.0	320.451
31.5	308.599
32.0	296.836
32.5	285.163
33.0	273.624
33.5	262.309
34.0	251.173
34.5	240.126
35.0	229.347
35.5	218.747
36.0	208.327
36.5	197.995
37.0	187.932
37.5	178.003
38.0	168.298
38.5	158.772
39.0	149.380
39.5	140.122
40.0	131.132
40.5	122.366
41.0	113.824
41.5	105.550
42.0	97.544
42.5	89.807
43.0	82.472
43.5	75.450
44.0	68.786
44.5	62.525
45.0	56.621
45.5	51.075
46.0	45.932
46.5	41.191
47.0	36.853
47.5	32.872
48.0	29.250
48.5	25.940
49.0	22.988
49.5	20.350
50.0	17.979
50.5	15.877
51.0	14.043
51.5	12.478
52.0	11.092
52.5	9.884
53.0	8.855
53.5	7.961
54.0	7.201
54.5	6.530

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6LDR-L20-935-BL-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

55.0	5.948
55.5	5.501
56.0	5.099
56.5	4.786
57.0	4.517
57.5	4.249
58.0	3.980
58.5	3.712
59.0	3.489
59.5	3.220
60.0	3.041
60.5	2.818
61.0	2.639
61.5	2.460
62.0	2.281
62.5	2.147
63.0	2.013
63.5	1.878
64.0	1.744
64.5	1.655
65.0	1.521
65.5	1.431
66.0	1.342
66.5	1.252
67.0	1.163
67.5	1.118
68.0	1.029
68.5	0.984
69.0	0.894
69.5	0.850
70.0	0.805
70.5	0.760
71.0	0.716
71.5	0.671
72.0	0.626
72.5	0.581
73.0	0.537
73.5	0.537
74.0	0.492
74.5	0.447
75.0	0.403
75.5	0.403
76.0	0.358
76.5	0.358
77.0	0.313
77.5	0.313
78.0	0.268
78.5	0.268
79.0	0.268
79.5	0.224
80.0	0.224
80.5	0.179
81.0	0.179
81.5	0.179
82.0	0.179
82.5	0.134

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6LDR-L20-935-BL-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

83.0	0.134
83.5	0.134
84.0	0.089
84.5	0.089
85.0	0.089
85.5	0.089
86.0	0.089
86.5	0.045
87.0	0.045
87.5	0.045
88.0	0.045
88.5	0.045
89.0	0.045
89.5	0.045
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6LDR-L20-935-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-L20-935-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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6LDR-L20-935-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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6LDR-L20-935-BL-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	217.57	N.A.	35.00
0-30	422.63	N.A.	68.00
0-40	565.75	N.A.	91.00
0-60	619.67	N.A.	99.60
0-80	621.77	N.A.	100.00
0-90	621.88	N.A.	100.00
10-90	563.71	N.A.	90.60
20-40	348.19	N.A.	56.00
20-50	395.54	N.A.	63.60
40-70	55.54	N.A.	8.90
60-80	2.11	N.A.	0.30
70-80	0.48	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	621.88	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	58.17
10-20	159.40
20-30	205.07
30-40	143.12
40-50	47.35
50-60	6.56
60-70	1.63
70-80	0.48
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

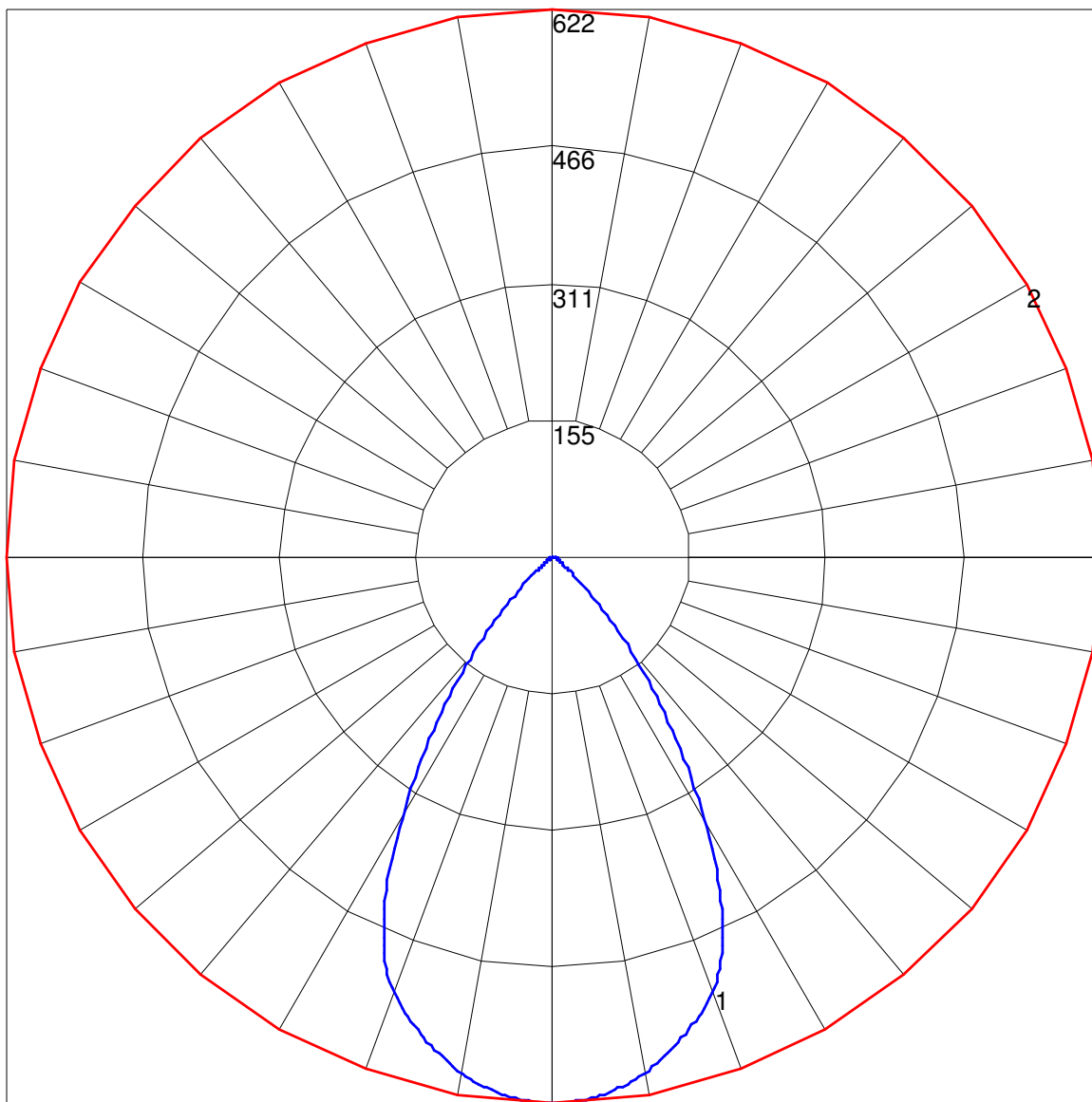
IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6LDR-L20-935-BL-DIM-UNV_.IES

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	86
3	102	95	90	86	100	94	89	86	91	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	78	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	66	74	69	66	73	69	66	64
7	82	73	67	62	81	72	66	62	71	66	62	70	65	61	68	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	53	50	49

POLAR GRAPH



Maximum Candela = 621.67 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.)