

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6LDR-L10-935-WH-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] GEN FROM 4792018053.04  
[TESTLAB] UL, LLC  
[ISSUE DATE] 2025-12-11  
[TEST DATE] 11/12/2025  
[MANUFAC] WILLIAMS INDOOR  
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
[LUMCAT] 6LDR-L10-935-WH-DIM-UNV  
[LUMINAIRE] 6" recessed downlight with textured white 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	729
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	78
Total Luminaire Watts	9.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.06
Spacing Criterion (90-270)	1.06
Spacing Criterion (Diagonal)	1.02
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	8787	8787	8787
55	6472	6472	6472
65	4863	4863	4863
75	3686	3686	3686
85	2688	2688	2688

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CANDELA TABULATION

	<u>0</u>
0.0	513.576
0.5	513.576
1.0	513.320
1.5	513.064
2.0	512.551
2.5	512.551
3.0	511.783
3.5	511.271
4.0	510.246
4.5	509.478
5.0	508.709
5.5	507.685
6.0	506.404
6.5	505.379
7.0	504.098
7.5	502.562
8.0	501.025
8.5	499.488
9.0	497.951
9.5	496.158
10.0	494.365
10.5	492.316
11.0	490.266
11.5	488.217
12.0	486.168
12.5	483.863
13.0	481.557
13.5	478.996
14.0	476.691
14.5	473.873
15.0	471.568
15.5	468.750
16.0	465.932
16.5	463.371
17.0	460.297
17.5	457.480
18.0	454.406
18.5	451.332
19.0	448.258
19.5	445.185
20.0	441.598
20.5	438.525
21.0	435.195
21.5	431.865
22.0	428.279
22.5	424.693
23.0	420.850
23.5	416.752
24.0	412.398
24.5	407.787
25.0	402.920
25.5	397.797
26.0	391.906
26.5	385.758

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**CANDELA TABULATION - (Cont.)**

27.0	379.098
27.5	372.182
28.0	364.754
28.5	357.070
29.0	349.129
29.5	340.676
30.0	332.223
30.5	324.283
31.0	315.574
31.5	307.121
32.0	298.412
32.5	289.447
33.0	280.482
33.5	271.773
34.0	263.064
34.5	254.355
35.0	245.799
35.5	237.398
36.0	229.175
36.5	221.004
37.0	213.038
37.5	205.149
38.0	197.439
38.5	189.857
39.0	182.403
39.5	175.179
40.0	168.135
40.5	161.296
41.0	154.739
41.5	148.463
42.0	142.469
42.5	136.808
43.0	131.455
43.5	126.434
44.0	121.773
44.5	117.444
45.0	113.448
45.5	109.734
46.0	106.352
46.5	103.176
47.0	100.282
47.5	97.618
48.0	95.082
48.5	92.751
49.0	90.497
49.5	88.345
50.0	86.296
50.5	84.273
51.0	82.300
51.5	80.354
52.0	78.458
52.5	76.639
53.0	74.821
53.5	73.053
54.0	71.286
54.5	69.518

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CANDELA TABULATION - (Cont.)

55.0	67.777
55.5	66.035
56.0	64.267
56.5	62.577
57.0	60.886
57.5	59.221
58.0	57.582
58.5	55.968
59.0	54.380
59.5	52.843
60.0	51.306
60.5	49.821
61.0	48.335
61.5	46.901
62.0	45.492
62.5	44.083
63.0	42.725
63.5	41.393
64.0	40.061
64.5	38.781
65.0	37.526
65.5	36.322
66.0	35.118
66.5	33.940
67.0	32.787
67.5	31.660
68.0	30.558
68.5	29.508
69.0	28.432
69.5	27.408
70.0	26.409
70.5	25.410
71.0	24.462
71.5	23.489
72.0	22.567
72.5	21.670
73.0	20.774
73.5	19.928
74.0	19.083
74.5	18.238
75.0	17.418
75.5	16.624
76.0	15.856
76.5	15.087
77.0	14.344
77.5	13.601
78.0	12.884
78.5	12.167
79.0	11.475
79.5	10.809
80.0	10.143
80.5	9.503
81.0	8.863
81.5	8.248
82.0	7.633
82.5	7.044

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CANDELA TABULATION - (Cont.)

83.0	6.455
83.5	5.891
84.0	5.328
84.5	4.790
85.0	4.278
85.5	3.765
86.0	3.253
86.5	2.766
87.0	2.280
87.5	1.819
88.0	1.358
88.5	0.922
89.0	0.538
89.5	0.282
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-L10-935-WH-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
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122.0	0.000
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123.0	0.000
123.5	0.000
124.0	0.000
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125.0	0.000
125.5	0.000
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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
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131.0	0.000
131.5	0.000
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132.5	0.000
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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  
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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
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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
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154.0	0.000
154.5	0.000
155.0	0.000
155.5	0.000
156.0	0.000
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159.0	0.000
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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	180.61	N.A.	24.80
0-30	362.93	N.A.	49.80
0-40	516.27	N.A.	70.80
0-60	667.70	N.A.	91.60
0-80	723.90	N.A.	99.30
0-90	728.80	N.A.	100.00
10-90	680.70	N.A.	93.40
20-40	335.66	N.A.	46.10
20-50	426.35	N.A.	58.50
40-70	188.96	N.A.	25.90
60-80	56.20	N.A.	7.70
70-80	18.67	N.A.	2.60
80-90	4.90	N.A.	0.70
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	728.80	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	48.10
10-20	132.51
20-30	182.32
30-40	153.34
40-50	90.69
50-60	60.74
60-70	37.54
70-80	18.67
80-90	4.90
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	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71
4	91	81	74	69	89	80	73	68	77	72	67	75	70	66	73	69	66	64
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	60	58
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	42	41
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	39	38

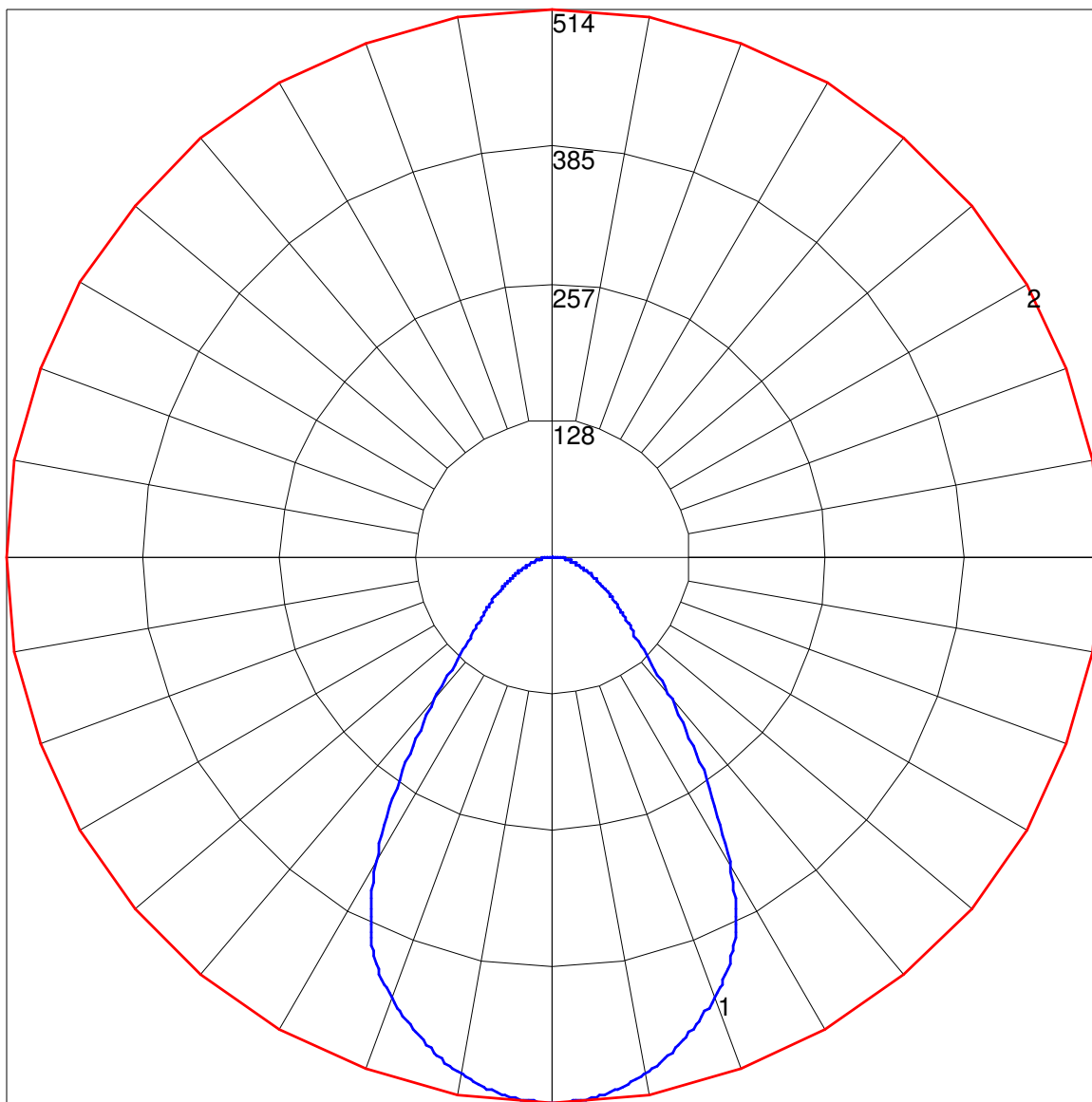
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**UGR TABLE - CORRECTED**

Reflectances											
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30	
Walls	50	30	50	30	30	50	30	50	30	30	
Floor Cavity	20	20	20	20	20	20	20	20	20	20	
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	15.5	16.8	15.8	17.1	17.4	15.5	16.8	15.8	17.1	17.4
	3H	16.7	17.9	17.1	18.2	18.6	16.7	17.9	17.1	18.2	18.6
	4H	17.1	18.2	17.5	18.6	18.9	17.1	18.2	17.5	18.6	18.9
	6H	17.4	18.4	17.8	18.8	19.2	17.4	18.4	17.8	18.8	19.2
	8H	17.5	18.4	17.9	18.8	19.2	17.5	18.4	17.9	18.8	19.2
	12H	17.5	18.4	18.0	18.8	19.3	17.5	18.4	18.0	18.8	19.3
4H	2H	15.9	17.0	16.3	17.3	17.7	15.9	17.0	16.3	17.3	17.7
	3H	17.3	18.2	17.7	18.6	19.0	17.3	18.2	17.7	18.6	19.0
	4H	17.8	18.6	18.2	19.0	19.5	17.8	18.6	18.2	19.0	19.5
	6H	18.2	18.9	18.7	19.4	19.8	18.2	18.9	18.7	19.4	19.8
	8H	18.4	19.0	18.8	19.4	19.9	18.4	19.0	18.8	19.4	19.9
	12H	18.4	19.0	18.9	19.5	20.0	18.4	19.0	18.9	19.5	20.0
8H	4H	18.0	18.6	18.5	19.1	19.5	18.0	18.6	18.5	19.1	19.5
	6H	18.5	19.0	19.0	19.5	20.0	18.5	19.0	19.0	19.5	20.0
	8H	18.7	19.1	19.2	19.7	20.1	18.7	19.1	19.2	19.7	20.1
	12H	18.8	19.2	19.3	19.7	20.3	18.8	19.2	19.3	19.7	20.3
12H	4H	18.0	18.5	18.5	19.0	19.5	18.0	18.5	18.5	19.0	19.5
	6H	18.5	19.0	19.0	19.4	20.0	18.5	19.0	19.0	19.4	20.0
	8H	18.7	19.1	19.2	19.6	20.2	18.7	19.1	19.2	19.6	20.2

Maximum UGR = 20.3

POLAR GRAPH



Maximum Candela = 513.576 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.)