

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4LDR-L30-830-BL-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] GEN FROM 4792018053.05  
[TESTLAB] UL, LLC  
[ISSUE DATE] 2025-12-10  
[TEST DATE] 11/11/2025  
[MANUFAC] WILLIAMS INDOOR  
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
[LUMCAT] 4LDR-L30-830-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	1180
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	45
Total Luminaire Watts	26
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)	0.38 ft (Diameter)
Luminous Width (90-270)	0.38 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	14800	14800	14800
55	1917	1917	1917
65	665	665	665
75	287	287	287
85	190	190	190

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CANDELA TABULATION

	<u>0</u>
0.0	1180.080
0.5	1180.080
1.0	1180.080
1.5	1179.231
2.0	1178.382
2.5	1177.533
3.0	1176.684
3.5	1174.137
4.0	1172.439
4.5	1170.741
5.0	1168.194
5.5	1166.496
6.0	1163.100
6.5	1160.553
7.0	1157.158
7.5	1153.762
8.0	1150.366
8.5	1146.121
9.0	1141.876
9.5	1137.631
10.0	1133.386
10.5	1128.292
11.0	1123.198
11.5	1118.105
12.0	1112.162
12.5	1107.068
13.0	1100.276
13.5	1095.182
14.0	1088.390
14.5	1082.447
15.0	1075.656
15.5	1068.864
16.0	1062.921
16.5	1056.129
17.0	1051.035
17.5	1044.243
18.0	1037.452
18.5	1030.660
19.0	1022.170
19.5	1012.831
20.0	1003.492
20.5	994.154
21.0	983.117
21.5	972.080
22.0	959.346
22.5	946.611
23.0	932.178
23.5	916.897
24.0	899.917
24.5	882.089
25.0	864.260
25.5	845.582
26.0	826.056
26.5	805.935

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**CANDELA TABULATION - (Cont.)**

27.0	785.305
27.5	764.081
28.0	742.347
28.5	720.273
29.0	698.115
29.5	675.702
30.0	653.374
30.5	630.876
31.0	608.293
31.5	585.795
32.0	563.467
32.5	541.309
33.0	519.405
33.5	497.926
34.0	476.786
34.5	455.817
35.0	435.356
35.5	415.235
36.0	395.454
36.5	375.843
37.0	356.741
37.5	337.893
38.0	319.471
38.5	301.387
39.0	283.559
39.5	265.985
40.0	248.920
40.5	232.280
41.0	216.065
41.5	200.359
42.0	185.162
42.5	170.475
43.0	156.552
43.5	143.223
44.0	130.573
44.5	118.687
45.0	107.481
45.5	96.953
46.0	87.190
46.5	78.191
47.0	69.956
47.5	62.400
48.0	55.523
48.5	49.241
49.0	43.637
49.5	38.629
50.0	34.129
50.5	30.139
51.0	26.658
51.5	23.686
52.0	21.055
52.5	18.762
53.0	16.810
53.5	15.112
54.0	13.669
54.5	12.395

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**CANDELA TABULATION - (Cont.)**

55.0	11.291
55.5	10.442
56.0	9.678
56.5	9.084
57.0	8.575
57.5	8.065
58.0	7.556
58.5	7.047
59.0	6.622
59.5	6.113
60.0	5.773
60.5	5.349
61.0	5.009
61.5	4.669
62.0	4.330
62.5	4.075
63.0	3.820
63.5	3.566
64.0	3.311
64.5	3.141
65.0	2.887
65.5	2.717
66.0	2.547
66.5	2.377
67.0	2.207
67.5	2.122
68.0	1.953
68.5	1.868
69.0	1.698
69.5	1.613
70.0	1.528
70.5	1.443
71.0	1.358
71.5	1.273
72.0	1.189
72.5	1.104
73.0	1.019
73.5	1.019
74.0	0.934
74.5	0.849
75.0	0.764
75.5	0.764
76.0	0.679
76.5	0.679
77.0	0.594
77.5	0.594
78.0	0.509
78.5	0.509
79.0	0.509
79.5	0.424
80.0	0.424
80.5	0.340
81.0	0.340
81.5	0.340
82.0	0.340
82.5	0.255

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CANDELA TABULATION - (Cont.)

83.0	0.255
83.5	0.255
84.0	0.170
84.5	0.170
85.0	0.170
85.5	0.170
86.0	0.170
86.5	0.085
87.0	0.085
87.5	0.085
88.0	0.085
88.5	0.085
89.0	0.085
89.5	0.085
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
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124.0	0.000
124.5	0.000
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125.5	0.000
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127.0	0.000
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128.5	0.000
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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  
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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	412.99	N.A.	35.00
0-30	802.26	N.A.	68.00
0-40	1073.94	N.A.	91.00
0-60	1176.28	N.A.	99.60
0-80	1180.28	N.A.	100.00
0-90	1180.48	N.A.	100.00
10-90	1070.07	N.A.	90.60
20-40	660.95	N.A.	56.00
20-50	750.83	N.A.	63.60
40-70	105.43	N.A.	8.90
60-80	4.00	N.A.	0.30
70-80	0.90	N.A.	0.10
80-90	0.21	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	1180.48	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	110.42
10-20	302.57
20-30	389.27
30-40	271.68
40-50	89.89
50-60	12.45
60-70	3.09
70-80	0.90
80-90	0.21
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	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	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

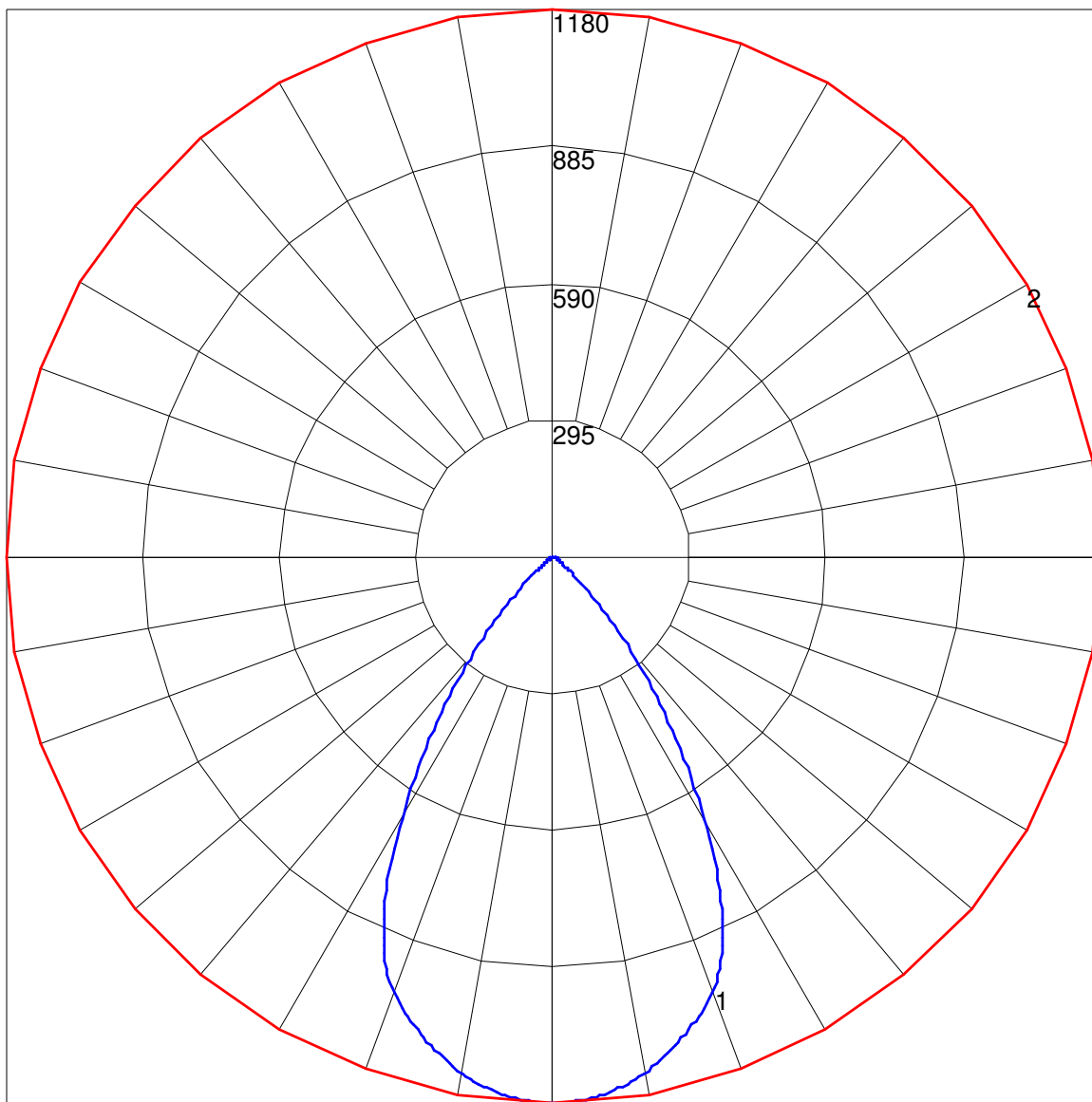
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**UGR TABLE - CORRECTED**

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	2.3	3.3	2.7	3.6	3.9	2.3	3.3	2.7	3.6	3.9
	3H	2.4	3.3	2.8	3.7	4.0	2.4	3.3	2.8	3.7	4.0
	4H	2.4	3.2	2.8	3.6	4.0	2.4	3.2	2.8	3.6	4.0
	6H	2.4	3.1	2.8	3.5	3.9	2.4	3.1	2.8	3.5	3.9
	8H	2.3	3.0	2.8	3.4	3.8	2.3	3.0	2.8	3.4	3.8
	12H	2.3	3.0	2.7	3.3	3.8	2.3	3.0	2.7	3.3	3.8
4H	2H	2.2	3.0	2.6	3.4	3.8	2.2	3.0	2.6	3.4	3.8
	3H	2.5	3.1	2.9	3.5	3.9	2.5	3.1	2.9	3.5	3.9
	4H	2.5	3.0	2.9	3.5	3.9	2.5	3.0	2.9	3.5	3.9
	6H	2.4	2.9	2.9	3.4	3.9	2.4	2.9	2.9	3.4	3.9
	8H	2.4	2.9	2.9	3.3	3.8	2.4	2.9	2.9	3.3	3.8
	12H	2.4	2.7	2.9	3.2	3.7	2.4	2.7	2.9	3.2	3.7
8H	4H	2.3	2.8	2.8	3.3	3.7	2.3	2.8	2.8	3.3	3.7
	6H	2.3	2.7	2.9	3.2	3.7	2.3	2.7	2.9	3.2	3.7
	8H	2.3	2.6	2.9	3.2	3.7	2.3	2.6	2.9	3.2	3.7
	12H	2.3	2.6	2.8	3.1	3.6	2.3	2.6	2.8	3.1	3.6
12H	4H	2.3	2.7	2.8	3.2	3.6	2.3	2.7	2.8	3.2	3.6
	6H	2.3	2.6	2.8	3.1	3.6	2.3	2.6	2.8	3.1	3.6
	8H	2.3	2.6	2.8	3.1	3.6	2.3	2.6	2.8	3.1	3.6

Maximum UGR = 4.0

POLAR GRAPH



Maximum Candela = 1180.08 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.)