

## IES INDOOR REPORT

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

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] GEN FROM 4792018053.02  
[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-WH-DIM-UNV  
[LUMINAIRE] 4" 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	2536
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	26
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.04
Spacing Criterion (90-270)	1.04
Spacing Criterion (Diagonal)	1.04
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	60616	60616	60616
55	40745	40745	40745
65	30691	30691	30691
75	23305	23305	23305
85	17046	17046	17046

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CANDELA TABULATION

	<u>0</u>
0.0	1729.599
0.5	1730.513
1.0	1729.599
1.5	1728.686
2.0	1727.772
2.5	1726.858
3.0	1725.031
3.5	1723.204
4.0	1721.376
4.5	1718.635
5.0	1716.808
5.5	1713.153
6.0	1711.326
6.5	1706.757
7.0	1703.103
7.5	1698.534
8.0	1694.879
8.5	1690.311
9.0	1684.829
9.5	1679.347
10.0	1674.778
10.5	1669.296
11.0	1663.814
11.5	1657.418
12.0	1650.109
12.5	1643.713
13.0	1637.317
13.5	1629.094
14.0	1621.785
14.5	1614.475
15.0	1606.252
15.5	1598.029
16.0	1588.892
16.5	1580.669
17.0	1571.532
17.5	1561.482
18.0	1552.345
18.5	1542.295
19.0	1531.330
19.5	1520.366
20.0	1508.488
20.5	1496.611
21.0	1483.819
21.5	1469.200
22.0	1454.581
22.5	1439.049
23.0	1422.602
23.5	1404.329
24.0	1384.228
24.5	1365.040
25.0	1343.112
25.5	1321.184
26.0	1300.169
26.5	1276.413

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**CANDELA TABULATION - (Cont.)**

27.0	1252.658
27.5	1227.074
28.0	1202.405
28.5	1177.736
29.0	1153.066
29.5	1130.224
30.0	1106.468
30.5	1080.885
31.0	1055.302
31.5	1028.806
32.0	1003.222
32.5	977.639
33.0	952.056
33.5	927.387
34.0	902.169
34.5	877.591
35.0	853.379
35.5	829.349
36.0	805.684
36.5	782.203
37.0	759.087
37.5	736.336
38.0	713.951
38.5	691.566
39.0	669.729
39.5	648.074
40.0	626.877
40.5	605.862
41.0	585.396
41.5	565.203
42.0	545.742
42.5	526.555
43.0	508.098
43.5	490.190
44.0	472.830
44.5	456.201
45.0	440.212
45.5	424.862
46.0	410.243
46.5	396.355
47.0	383.107
47.5	370.589
48.0	358.711
48.5	347.382
49.0	336.692
49.5	326.458
50.0	316.865
50.5	307.637
51.0	298.957
51.5	290.642
52.0	282.693
52.5	275.018
53.0	267.617
53.5	260.399
54.0	253.455
54.5	246.694

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**CANDELA TABULATION - (Cont.)**

55.0	240.024
55.5	233.720
56.0	227.689
56.5	221.751
57.0	215.812
57.5	209.964
58.0	204.116
58.5	198.269
59.0	192.604
59.5	187.122
60.0	181.640
60.5	176.341
61.0	171.041
61.5	166.016
62.0	160.991
62.5	156.148
63.0	151.397
63.5	146.737
64.0	141.986
64.5	137.600
65.0	133.215
65.5	128.920
66.0	124.626
66.5	120.515
67.0	116.494
67.5	112.566
68.0	108.728
68.5	104.891
69.0	101.145
69.5	97.490
70.0	93.926
70.5	90.454
71.0	86.982
71.5	83.602
72.0	80.313
72.5	77.115
73.0	73.917
73.5	70.902
74.0	67.887
74.5	64.871
75.0	61.948
75.5	59.115
76.0	56.374
76.5	53.633
77.0	50.983
77.5	48.334
78.0	45.867
78.5	43.309
79.0	40.842
79.5	38.466
80.0	36.090
80.5	33.806
81.0	31.522
81.5	29.329
82.0	27.228
82.5	25.126

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CANDELA TABULATION - (Cont.)

83.0	23.025
83.5	21.015
84.0	19.096
84.5	17.086
85.0	15.258
85.5	13.431
86.0	11.604
86.5	9.868
87.0	8.132
87.5	6.487
88.0	4.934
88.5	3.381
89.0	2.010
89.5	0.914
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
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124.0	0.000
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128.0	0.000
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130.0	0.000
130.5	0.000
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131.5	0.000
132.0	0.000
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

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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	613.97	N.A.	24.20
0-30	1223.89	N.A.	48.30
0-40	1756.64	N.A.	69.30
0-60	2319.47	N.A.	91.40
0-80	2519.02	N.A.	99.30
0-90	2536.5	N.A.	100.00
10-90	2373.99	N.A.	93.60
20-40	1142.67	N.A.	45.00
20-50	1488.54	N.A.	58.70
40-70	695.97	N.A.	27.40
60-80	199.55	N.A.	7.90
70-80	66.41	N.A.	2.60
80-90	17.48	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	2536.5	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	162.51
10-20	451.47
20-30	609.92
30-40	532.76
40-50	345.87
50-60	216.95
60-70	133.15
70-80	66.41
80-90	17.48
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	104	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	74	79	75	72	71
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63
5	84	74	66	61	83	73	66	61	71	65	60	69	64	60	67	63	59	57
6	79	68	60	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	43	39	37

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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

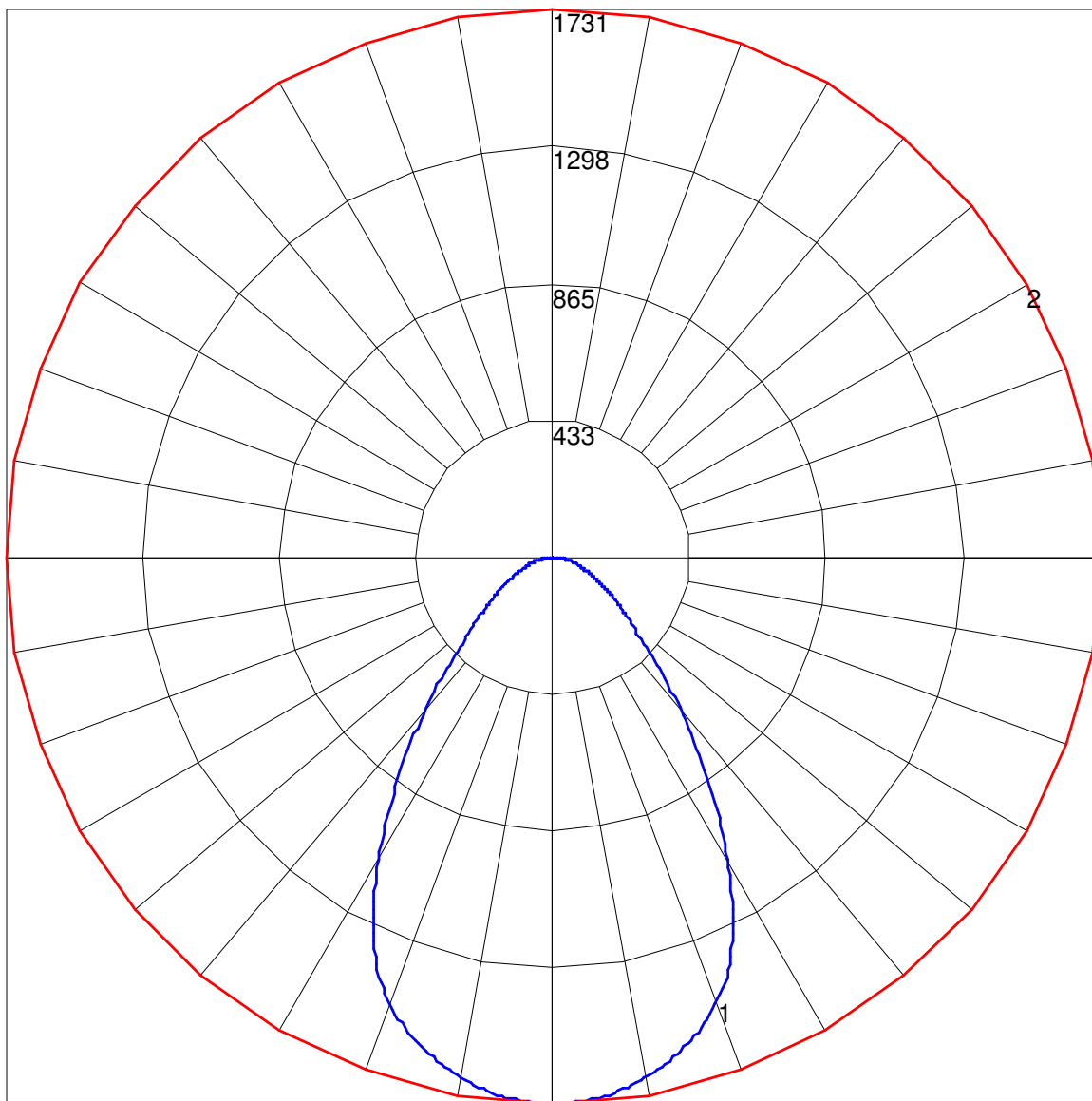
X=2H	Y=2H	21.9	23.2	22.2	23.5	23.8	21.9	23.2	22.2	23.5	23.8
	3H	23.1	24.3	23.5	24.6	25.0	23.1	24.3	23.5	24.6	25.0
	4H	23.5	24.6	23.9	25.0	25.4	23.5	24.6	23.9	25.0	25.4
	6H	23.8	24.8	24.2	25.2	25.6	23.8	24.8	24.2	25.2	25.6
	8H	23.9	24.9	24.4	25.3	25.7	23.9	24.9	24.4	25.3	25.7
	12H	24.0	24.9	24.4	25.3	25.7	24.0	24.9	24.4	25.3	25.7

UGR Viewed Endwise

4H	2H	22.3	23.4	22.7	23.7	24.1	22.3	23.4	22.7	23.7	24.1
	3H	23.7	24.6	24.1	25.0	25.4	23.7	24.6	24.1	25.0	25.4
	4H	24.2	25.1	24.7	25.5	25.9	24.2	25.1	24.7	25.5	25.9
	6H	24.7	25.4	25.1	25.8	26.3	24.7	25.4	25.1	25.8	26.3
	8H	24.8	25.4	25.2	25.9	26.3	24.8	25.4	25.2	25.9	26.3
	12H	24.9	25.4	25.4	25.9	26.4	24.9	25.4	25.4	25.9	26.4
8H	4H	24.4	25.1	24.9	25.5	26.0	24.4	25.1	24.9	25.5	26.0
	6H	24.9	25.5	25.4	26.0	26.4	24.9	25.5	25.4	26.0	26.4
	8H	25.1	25.6	25.6	26.1	26.6	25.1	25.6	25.6	26.1	26.6
	12H	25.2	25.7	25.8	26.2	26.7	25.2	25.7	25.8	26.2	26.7
12H	4H	24.4	25.0	24.9	25.5	25.9	24.4	25.0	24.9	25.5	25.9
	6H	24.9	25.4	25.5	25.9	26.4	24.9	25.4	25.5	25.9	26.4
	8H	25.2	25.6	25.7	26.1	26.7	25.2	25.6	25.7	26.1	26.7

Maximum UGR = 26.7

POLAR GRAPH



Maximum Candela = 1730.513 Located At Horizontal Angle = 0, Vertical Angle = .5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)