

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4LDR-L30-830-CS-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM 4792018053.01
[TESTLAB] UL, LLC
[ISSUE DATE] 2025-12-10
[TEST DATE] 11/12/2025
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC.
[LUMCAT] 4LDR-L30-830-CS-DIM-UNV
[LUMINAIRE] 4" recessed downlight with clear semi-specular finish refl
[MORE] ector 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	2988
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	26
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.96
Spacing Criterion (90-270)	0.96
Spacing Criterion (Diagonal)	0.96
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	64990	64990	64990
55	20225	20225	20225
65	785	785	785
75	312	312	312
85	617	617	617

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CANDELA TABULATION

	<u>0</u>
0.0	2743.822
0.5	2743.822
1.0	2743.822
1.5	2744.743
2.0	2745.664
2.5	2746.585
3.0	2749.347
3.5	2751.188
4.0	2751.188
4.5	2753.030
5.0	2753.951
5.5	2753.030
6.0	2750.268
6.5	2747.505
7.0	2741.981
7.5	2733.694
8.0	2725.408
8.5	2716.200
9.0	2704.230
9.5	2691.340
10.0	2676.608
10.5	2660.035
11.0	2642.540
11.5	2622.284
12.0	2601.107
12.5	2579.009
13.0	2555.990
13.5	2532.051
14.0	2507.191
14.5	2480.489
15.0	2452.867
15.5	2424.324
16.0	2394.860
16.5	2366.317
17.0	2337.774
17.5	2309.230
18.0	2281.608
18.5	2253.065
19.0	2225.443
19.5	2199.662
20.0	2172.039
20.5	2146.258
21.0	2119.557
21.5	2092.855
22.0	2066.154
22.5	2038.531
23.0	2009.988
23.5	1980.524
24.0	1950.140
24.5	1918.834
25.0	1886.608
25.5	1853.461
26.0	1819.394
26.5	1783.485

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CANDELA TABULATION - (Cont.)

27.0	1747.576
27.5	1710.746
28.0	1672.074
28.5	1633.403
29.0	1594.732
29.5	1555.140
30.0	1514.627
30.5	1475.035
31.0	1434.522
31.5	1394.009
32.0	1354.417
32.5	1314.825
33.0	1275.233
33.5	1236.562
34.0	1197.890
34.5	1161.060
35.0	1124.231
35.5	1089.242
36.0	1051.492
36.5	1014.662
37.0	977.832
37.5	941.923
38.0	906.658
38.5	871.486
39.0	836.774
39.5	802.614
40.0	769.007
40.5	735.952
41.0	703.450
41.5	671.776
42.0	640.655
42.5	610.454
43.0	580.991
43.5	552.355
44.0	524.825
44.5	497.847
45.0	471.974
45.5	446.930
46.0	422.899
46.5	399.788
47.0	377.598
47.5	356.329
48.0	335.888
48.5	316.368
49.0	297.585
49.5	279.538
50.0	262.228
50.5	245.747
51.0	229.818
51.5	214.534
52.0	199.710
52.5	185.438
53.0	171.719
53.5	158.184
54.0	145.110
54.5	132.127

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CANDELA TABULATION - (Cont.)

55.0	119.145
55.5	105.978
56.0	92.719
56.5	79.737
57.0	67.399
57.5	55.889
58.0	45.393
58.5	35.909
59.0	27.530
59.5	20.533
60.0	15.100
60.5	11.141
61.0	8.471
61.5	6.998
62.0	5.985
62.5	5.340
63.0	4.788
63.5	4.420
64.0	4.051
64.5	3.683
65.0	3.407
65.5	3.131
66.0	2.946
66.5	2.762
67.0	2.486
67.5	2.394
68.0	2.210
68.5	2.026
69.0	1.934
69.5	1.749
70.0	1.657
70.5	1.565
71.0	1.473
71.5	1.381
72.0	1.289
72.5	1.197
73.0	1.105
73.5	1.013
74.0	1.013
74.5	0.921
75.0	0.829
75.5	0.829
76.0	0.737
76.5	0.737
77.0	0.737
77.5	0.645
78.0	0.645
78.5	0.552
79.0	0.552
79.5	0.552
80.0	0.552
80.5	0.552
81.0	0.552
81.5	0.552
82.0	0.552
82.5	0.460

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CANDELA TABULATION - (Cont.)

83.0	0.552
83.5	0.552
84.0	0.552
84.5	0.552
85.0	0.552
85.5	0.552
86.0	0.552
86.5	0.552
87.0	0.552
87.5	0.645
88.0	0.645
88.5	0.645
89.0	0.645
89.5	0.552
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
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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
121.5	0.000
122.0	0.000
122.5	0.000
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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
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158.5	0.000
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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	944.96	N.A.	31.60
0-30	1801.59	N.A.	60.30
0-40	2501.81	N.A.	83.70
0-60	2981.74	N.A.	99.80
0-80	2987.06	N.A.	100.00
0-90	2987.66	N.A.	100.00
10-90	2727.05	N.A.	91.30
20-40	1556.85	N.A.	52.10
20-50	1928.24	N.A.	64.50
40-70	484.26	N.A.	16.20
60-80	5.32	N.A.	0.20
70-80	0.99	N.A.	0.00
80-90	0.60	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	2987.66	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	260.61
10-20	684.35
20-30	856.63
30-40	700.22
40-50	371.39
50-60	108.54
60-70	4.32
70-80	0.99
80-90	0.60
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	110	107	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85
3	101	94	89	84	99	93	88	84	90	86	82	87	84	81	85	82	80	78
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66
6	85	75	69	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61
7	80	70	64	59	79	69	63	59	68	62	58	67	62	58	66	61	58	56
8	76	65	59	55	74	65	59	54	64	58	54	63	58	54	62	57	54	52
9	72	61	55	51	71	61	55	51	60	54	50	59	54	50	58	53	50	49
10	68	58	51	47	67	57	51	47	56	51	47	56	51	47	55	50	47	45

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UGR TABLE - CORRECTED

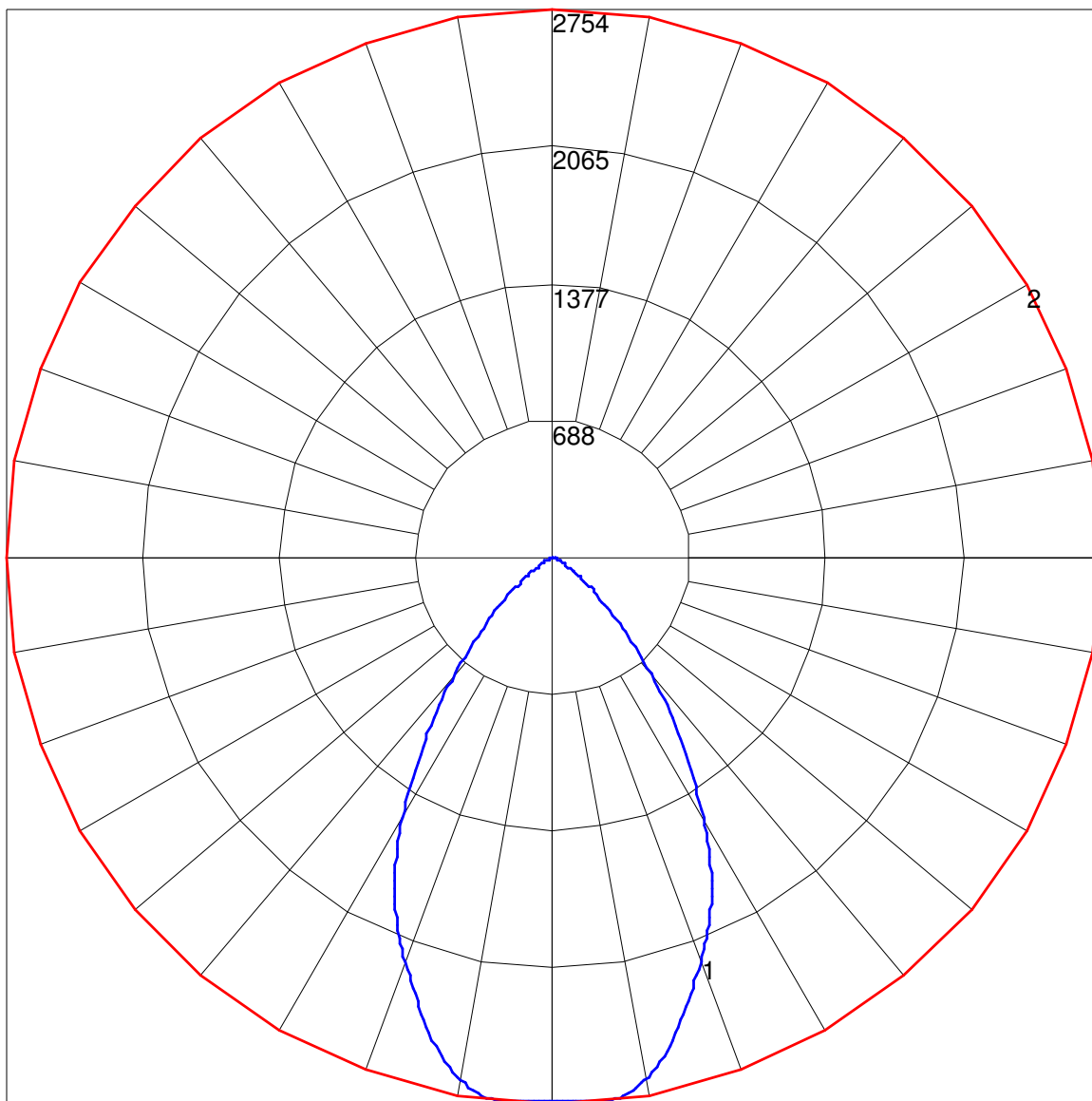
Reflectances

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	12.0	13.1	12.4	13.4	13.7	12.0	13.1	12.4	13.4	13.7
	3H	11.9	12.8	12.3	13.1	13.5	11.9	12.8	12.3	13.1	13.5
	4H	11.8	12.7	12.2	13.0	13.4	11.8	12.7	12.2	13.0	13.4
	6H	11.7	12.5	12.1	12.9	13.2	11.7	12.5	12.1	12.9	13.2
	8H	11.6	12.4	12.1	12.8	13.2	11.6	12.4	12.1	12.8	13.2
	12H	11.6	12.3	12.0	12.7	13.1	11.6	12.3	12.0	12.7	13.1
4H	2H	11.8	12.6	12.2	13.0	13.4	11.8	12.6	12.2	13.0	13.4
	3H	11.6	12.3	12.0	12.7	13.1	11.6	12.3	12.0	12.7	13.1
	4H	11.5	12.1	11.9	12.5	13.0	11.5	12.1	11.9	12.5	13.0
	6H	11.4	11.9	11.9	12.4	12.8	11.4	11.9	11.9	12.4	12.8
	8H	11.3	11.8	11.8	12.3	12.7	11.3	11.8	11.8	12.3	12.7
	12H	11.3	11.7	11.8	12.2	12.7	11.3	11.7	11.8	12.2	12.7
8H	4H	11.3	11.8	11.8	12.3	12.7	11.3	11.8	11.8	12.3	12.7
	6H	11.2	11.6	11.7	12.1	12.6	11.2	11.6	11.7	12.1	12.6
	8H	11.1	11.5	11.7	12.0	12.5	11.1	11.5	11.7	12.0	12.5
	12H	11.1	11.4	11.6	11.9	12.5	11.1	11.4	11.6	11.9	12.5
12H	4H	11.3	11.7	11.7	12.2	12.7	11.3	11.7	11.7	12.2	12.7
	6H	11.1	11.5	11.7	12.0	12.5	11.1	11.5	11.7	12.0	12.5
	8H	11.1	11.4	11.6	11.9	12.5	11.1	11.4	11.6	11.9	12.5

Maximum UGR = 13.7

POLAR GRAPH



Maximum Candela = 2753.951 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.)