

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 4LDR-L30-835-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-L30-835-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	3018
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	116
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	65646	65646	65646
55	20430	20430	20430
65	793	793	793
75	315	315	315
85	623	623	623

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : 4LDR-L30-835-CS-DIM-UNV\_.IES

CANDELA TABULATION

	<u>0</u>
0.0	2771.538
0.5	2771.538
1.0	2771.538
1.5	2772.468
2.0	2773.398
2.5	2774.328
3.0	2777.118
3.5	2778.978
4.0	2778.978
4.5	2780.838
5.0	2781.768
5.5	2780.838
6.0	2778.048
6.5	2775.258
7.0	2769.678
7.5	2761.307
8.0	2752.937
8.5	2743.636
9.0	2731.546
9.5	2718.525
10.0	2703.644
10.5	2686.903
11.0	2669.233
11.5	2648.772
12.0	2627.381
12.5	2605.059
13.0	2581.808
13.5	2557.627
14.0	2532.516
14.5	2505.544
15.0	2477.643
15.5	2448.812
16.0	2419.050
16.5	2390.219
17.0	2361.387
17.5	2332.556
18.0	2304.654
18.5	2275.823
19.0	2247.922
19.5	2221.880
20.0	2193.979
20.5	2167.938
21.0	2140.966
21.5	2113.995
22.0	2087.024
22.5	2059.122
23.0	2030.291
23.5	2000.529
24.0	1969.838
24.5	1938.216
25.0	1905.665
25.5	1872.183
26.0	1837.771
26.5	1801.499

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 4LDR-L30-835-CS-DIM-UNV\_.IES**

**CANDELA TABULATION - (Cont.)**

27.0	1765.228
27.5	1728.026
28.0	1688.964
28.5	1649.902
29.0	1610.840
29.5	1570.848
30.0	1529.926
30.5	1489.934
31.0	1449.012
31.5	1408.090
32.0	1368.098
32.5	1328.106
33.0	1288.114
33.5	1249.052
34.0	1209.990
34.5	1172.788
35.0	1135.586
35.5	1100.245
36.0	1062.113
36.5	1024.911
37.0	987.709
37.5	951.437
38.0	915.816
38.5	880.289
39.0	845.226
39.5	810.721
40.0	776.775
40.5	743.386
41.0	710.555
41.5	678.562
42.0	647.126
42.5	616.621
43.0	586.859
43.5	557.935
44.0	530.126
44.5	502.876
45.0	476.742
45.5	451.444
46.0	427.170
46.5	403.826
47.0	381.412
47.5	359.928
48.0	339.281
48.5	319.564
49.0	300.591
49.5	282.362
50.0	264.877
50.5	248.229
51.0	232.140
51.5	216.701
52.0	201.727
52.5	187.311
53.0	173.454
53.5	159.782
54.0	146.575
54.5	133.462

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 4LDR-L30-835-CS-DIM-UNV\_.IES**

**CANDELA TABULATION - (Cont.)**

55.0	120.348
55.5	107.048
56.0	93.656
56.5	80.542
57.0	68.079
57.5	56.454
58.0	45.851
58.5	36.272
59.0	27.808
59.5	20.740
60.0	15.253
60.5	11.254
61.0	8.556
61.5	7.068
62.0	6.045
62.5	5.394
63.0	4.836
63.5	4.464
64.0	4.092
64.5	3.720
65.0	3.441
65.5	3.162
66.0	2.976
66.5	2.790
67.0	2.511
67.5	2.418
68.0	2.232
68.5	2.046
69.0	1.953
69.5	1.767
70.0	1.674
70.5	1.581
71.0	1.488
71.5	1.395
72.0	1.302
72.5	1.209
73.0	1.116
73.5	1.023
74.0	1.023
74.5	0.930
75.0	0.837
75.5	0.837
76.0	0.744
76.5	0.744
77.0	0.744
77.5	0.651
78.0	0.651
78.5	0.558
79.0	0.558
79.5	0.558
80.0	0.558
80.5	0.558
81.0	0.558
81.5	0.558
82.0	0.558
82.5	0.465

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : 4LDR-L30-835-CS-DIM-UNV\_.IES

CANDELA TABULATION - (Cont.)

83.0	0.558
83.5	0.558
84.0	0.558
84.5	0.558
85.0	0.558
85.5	0.558
86.0	0.558
86.5	0.558
87.0	0.558
87.5	0.651
88.0	0.651
88.5	0.651
89.0	0.651
89.5	0.558
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 : 4LDR-L30-835-CS-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 : 4LDR-L30-835-CS-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 : 4LDR-L30-835-CS-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 : 4LDR-L30-835-CS-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	954.51	N.A.	31.60
0-30	1819.79	N.A.	60.30
0-40	2527.08	N.A.	83.70
0-60	3011.86	N.A.	99.80
0-80	3017.23	N.A.	100.00
0-90	3017.84	N.A.	100.00
10-90	2754.59	N.A.	91.30
20-40	1572.58	N.A.	52.10
20-50	1947.72	N.A.	64.50
40-70	489.15	N.A.	16.20
60-80	5.37	N.A.	0.20
70-80	1.00	N.A.	0.00
80-90	0.61	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	3017.84	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	263.25
10-20	691.26
20-30	865.29
30-40	707.29
40-50	375.14
50-60	109.64
60-70	4.37
70-80	1.00
80-90	0.61
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 : 4LDR-L30-835-CS-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	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

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 4LDR-L30-835-CS-DIM-UNV\_.IES**

**UGR TABLE - CORRECTED**

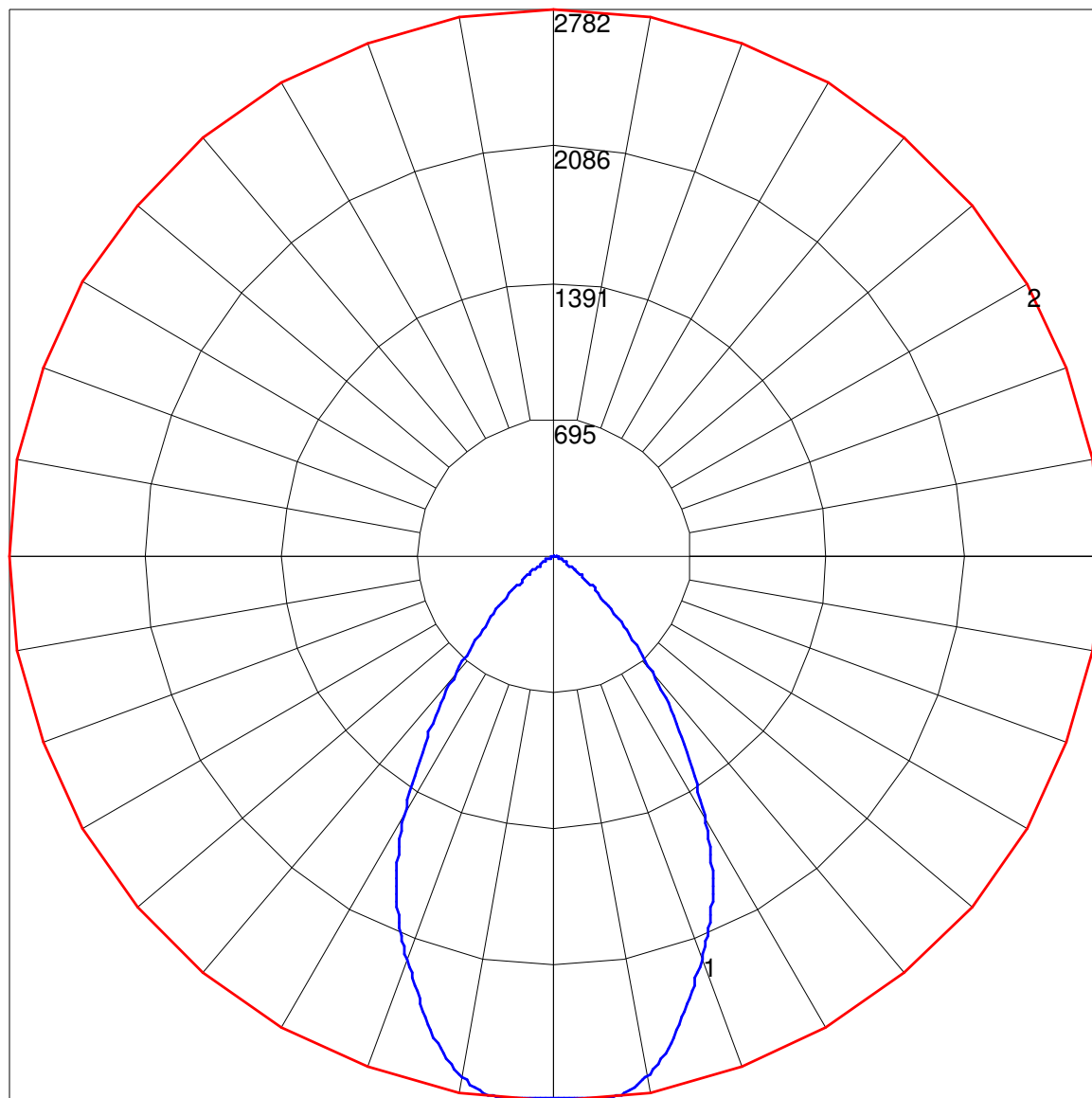
Reflectances

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	12.1	13.2	12.5	13.5	13.8	12.1	13.2	12.5	13.5	13.8
	3H	12.0	12.9	12.4	13.2	13.6	12.0	12.9	12.4	13.2	13.6
	4H	11.9	12.8	12.3	13.1	13.5	11.9	12.8	12.3	13.1	13.5
	6H	11.8	12.6	12.2	12.9	13.3	11.8	12.6	12.2	12.9	13.3
	8H	11.7	12.5	12.2	12.9	13.3	11.7	12.5	12.2	12.9	13.3
	12H	11.7	12.4	12.1	12.8	13.2	11.7	12.4	12.1	12.8	13.2
4H	2H	11.9	12.7	12.3	13.1	13.5	11.9	12.7	12.3	13.1	13.5
	3H	11.7	12.4	12.1	12.8	13.2	11.7	12.4	12.1	12.8	13.2
	4H	11.6	12.2	12.0	12.6	13.1	11.6	12.2	12.0	12.6	13.1
	6H	11.5	12.0	12.0	12.5	12.9	11.5	12.0	12.0	12.5	12.9
	8H	11.4	11.9	11.9	12.4	12.8	11.4	11.9	11.9	12.4	12.8
	12H	11.4	11.8	11.9	12.3	12.8	11.4	11.8	11.9	12.3	12.8
8H	4H	11.4	11.9	11.9	12.4	12.8	11.4	11.9	11.9	12.4	12.8
	6H	11.3	11.7	11.8	12.2	12.7	11.3	11.7	11.8	12.2	12.7
	8H	11.2	11.6	11.8	12.1	12.6	11.2	11.6	11.8	12.1	12.6
	12H	11.2	11.5	11.7	12.0	12.6	11.2	11.5	11.7	12.0	12.6
12H	4H	11.4	11.8	11.8	12.3	12.8	11.4	11.8	11.8	12.3	12.8
	6H	11.2	11.6	11.8	12.1	12.6	11.2	11.6	11.8	12.1	12.6
	8H	11.2	11.5	11.7	12.0	12.6	11.2	11.5	11.7	12.0	12.6

Maximum UGR = 13.8

POLAR GRAPH



Maximum Candela = 2781.768 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.)