

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4LDR-L30-935-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-L30-935-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	2505
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
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	54486	54486	54486
55	16957	16957	16957
65	658	658	658
75	261	261	261
85	517	517	517

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 4LDR-L30-935-CS-DIM-UNV_.IES

CANDELA TABULATION

	<u>0</u>
0.0	2300.376
0.5	2300.376
1.0	2300.376
1.5	2301.148
2.0	2301.920
2.5	2302.692
3.0	2305.008
3.5	2306.552
4.0	2306.552
4.5	2308.096
5.0	2308.868
5.5	2308.096
6.0	2305.780
6.5	2303.464
7.0	2298.833
7.5	2291.885
8.0	2284.938
8.5	2277.218
9.0	2267.183
9.5	2256.376
10.0	2244.025
10.5	2230.130
11.0	2215.463
11.5	2198.481
12.0	2180.726
12.5	2162.199
13.0	2142.901
13.5	2122.831
14.0	2101.988
14.5	2079.602
15.0	2056.444
15.5	2032.514
16.0	2007.812
16.5	1983.882
17.0	1959.952
17.5	1936.021
18.0	1912.863
18.5	1888.933
19.0	1865.775
19.5	1844.161
20.0	1821.003
20.5	1799.388
21.0	1777.002
21.5	1754.616
22.0	1732.230
22.5	1709.072
23.0	1685.141
23.5	1660.439
24.0	1634.965
24.5	1608.720
25.0	1581.702
25.5	1553.912
26.0	1525.350
26.5	1495.245

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 4LDR-L30-935-CS-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

27.0	1465.139
27.5	1434.262
28.0	1401.840
28.5	1369.419
29.0	1336.997
29.5	1303.804
30.0	1269.839
30.5	1236.645
31.0	1202.680
31.5	1168.715
32.0	1135.521
32.5	1102.328
33.0	1069.135
33.5	1036.713
34.0	1004.292
34.5	973.414
35.0	942.537
35.5	913.203
36.0	881.554
36.5	850.676
37.0	819.799
37.5	789.693
38.0	760.128
38.5	730.640
39.0	701.538
39.5	672.899
40.0	644.723
40.5	617.010
41.0	589.761
41.5	563.206
42.0	537.115
42.5	511.795
43.0	487.093
43.5	463.086
44.0	440.005
44.5	417.387
45.0	395.696
45.5	374.699
46.0	354.551
46.5	335.176
47.0	316.572
47.5	298.740
48.0	281.603
48.5	265.238
49.0	249.490
49.5	234.360
50.0	219.848
50.5	206.030
51.0	192.676
51.5	179.862
52.0	167.433
52.5	155.468
53.0	143.967
53.5	132.619
54.0	121.657
54.5	110.773

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 4LDR-L30-935-CS-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

55.0	99.889
55.5	88.850
56.0	77.734
56.5	66.850
57.0	56.506
57.5	46.857
58.0	38.057
58.5	30.106
59.0	23.081
59.5	17.214
60.0	12.660
60.5	9.340
61.0	7.102
61.5	5.867
62.0	5.018
62.5	4.477
63.0	4.014
63.5	3.705
64.0	3.397
64.5	3.088
65.0	2.856
65.5	2.625
66.0	2.470
66.5	2.316
67.0	2.084
67.5	2.007
68.0	1.853
68.5	1.698
69.0	1.621
69.5	1.467
70.0	1.389
70.5	1.312
71.0	1.235
71.5	1.158
72.0	1.081
72.5	1.004
73.0	0.926
73.5	0.849
74.0	0.849
74.5	0.772
75.0	0.695
75.5	0.695
76.0	0.618
76.5	0.618
77.0	0.618
77.5	0.540
78.0	0.540
78.5	0.463
79.0	0.463
79.5	0.463
80.0	0.463
80.5	0.463
81.0	0.463
81.5	0.463
82.0	0.463
82.5	0.386

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 4LDR-L30-935-CS-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

83.0	0.463
83.5	0.463
84.0	0.463
84.5	0.463
85.0	0.463
85.5	0.463
86.0	0.463
86.5	0.463
87.0	0.463
87.5	0.540
88.0	0.540
88.5	0.540
89.0	0.540
89.5	0.463
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-L30-935-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-L30-935-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-L30-935-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-L30-935-CS-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	792.24	N.A.	31.60
0-30	1510.43	N.A.	60.30
0-40	2097.48	N.A.	83.70
0-60	2499.85	N.A.	99.80
0-80	2504.3	N.A.	100.00
0-90	2504.81	N.A.	100.00
10-90	2286.31	N.A.	91.30
20-40	1305.24	N.A.	52.10
20-50	1616.61	N.A.	64.50
40-70	405.99	N.A.	16.20
60-80	4.46	N.A.	0.20
70-80	0.83	N.A.	0.00
80-90	0.51	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	2504.81	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	218.49
10-20	573.75
20-30	718.19
30-40	587.05
40-50	311.37
50-60	91.00
60-70	3.62
70-80	0.83
80-90	0.51
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-L30-935-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-L30-935-CS-DIM-UNV_.IES

UGR TABLE - CORRECTED

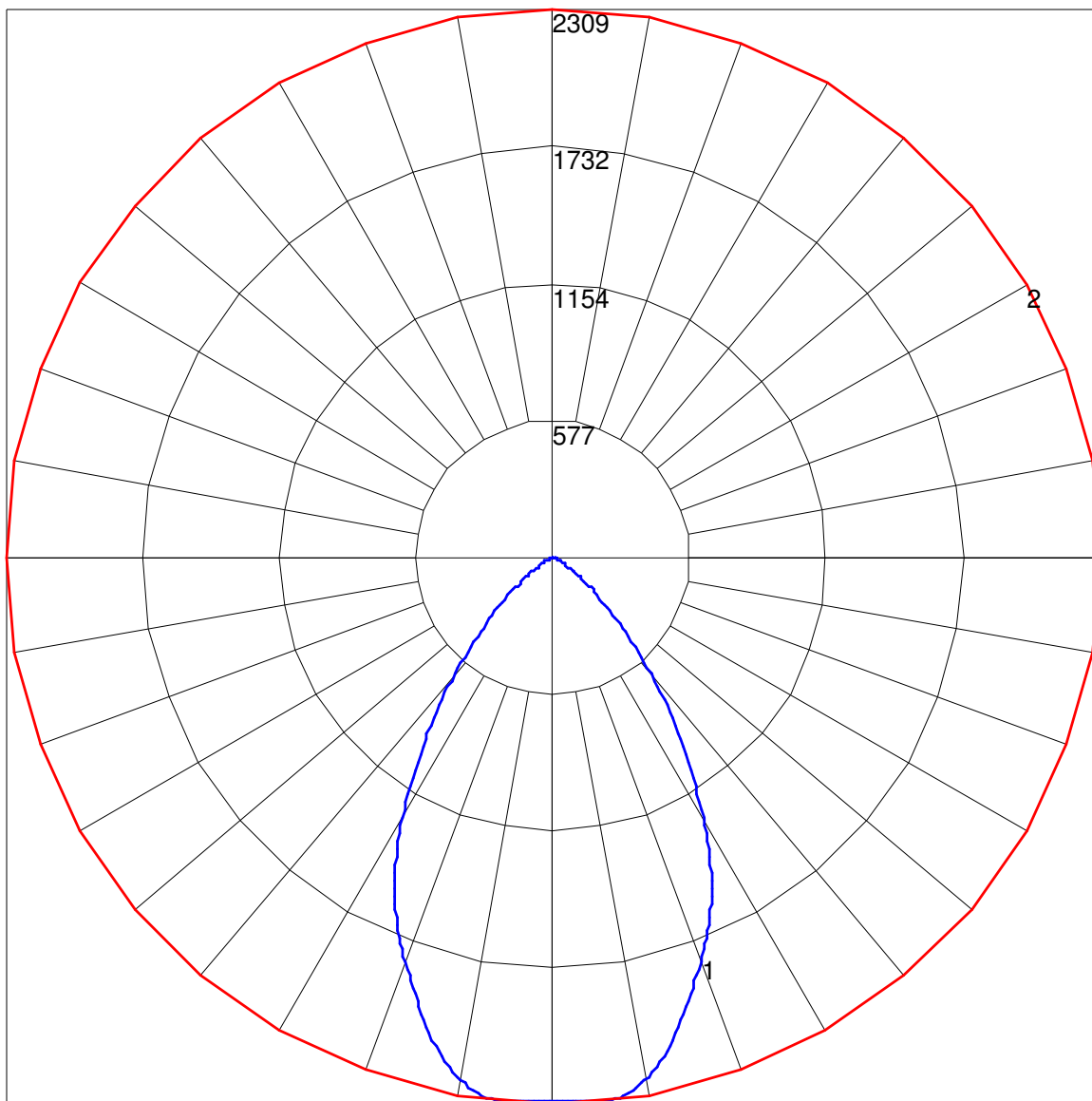
Reflectances

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	11.4	12.5	11.8	12.8	13.1	11.4	12.5	11.8	12.8	13.1
	3H	11.3	12.2	11.7	12.5	12.9	11.3	12.2	11.7	12.5	12.9
	4H	11.2	12.1	11.6	12.4	12.8	11.2	12.1	11.6	12.4	12.8
	6H	11.1	11.9	11.5	12.2	12.6	11.1	11.9	11.5	12.2	12.6
	8H	11.0	11.8	11.5	12.2	12.6	11.0	11.8	11.5	12.2	12.6
	12H	11.0	11.7	11.4	12.1	12.5	11.0	11.7	11.4	12.1	12.5
4H	2H	11.2	12.0	11.6	12.4	12.8	11.2	12.0	11.6	12.4	12.8
	3H	11.0	11.7	11.4	12.1	12.5	11.0	11.7	11.4	12.1	12.5
	4H	10.9	11.5	11.3	11.9	12.4	10.9	11.5	11.3	11.9	12.4
	6H	10.8	11.3	11.3	11.8	12.2	10.8	11.3	11.3	11.8	12.2
	8H	10.7	11.2	11.2	11.7	12.1	10.7	11.2	11.2	11.7	12.1
	12H	10.7	11.1	11.2	11.6	12.1	10.7	11.1	11.2	11.6	12.1
8H	4H	10.7	11.2	11.2	11.7	12.1	10.7	11.2	11.2	11.7	12.1
	6H	10.6	11.0	11.1	11.5	12.0	10.6	11.0	11.1	11.5	12.0
	8H	10.5	10.9	11.1	11.4	11.9	10.5	10.9	11.1	11.4	11.9
	12H	10.5	10.8	11.0	11.3	11.9	10.5	10.8	11.0	11.3	11.9
12H	4H	10.7	11.1	11.1	11.6	12.1	10.7	11.1	11.1	11.6	12.1
	6H	10.5	10.9	11.1	11.4	11.9	10.5	10.9	11.1	11.4	11.9
	8H	10.5	10.8	11.0	11.3	11.9	10.5	10.8	11.0	11.3	11.9

Maximum UGR = 13.1

POLAR GRAPH



Maximum Candela = 2308.868 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.)