

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 4LDR-L30-940-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-L30-940-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	2595
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
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	56456	56456	56456
55	17569	17569	17569
65	682	682	682
75	271	271	271
85	536	536	536

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CANDELA TABULATION

	<u>0</u>
0.0	2383.522
0.5	2383.522
1.0	2383.522
1.5	2384.322
2.0	2385.122
2.5	2385.922
3.0	2388.321
3.5	2389.921
4.0	2389.921
4.5	2391.521
5.0	2392.320
5.5	2391.521
6.0	2389.121
6.5	2386.722
7.0	2381.923
7.5	2374.724
8.0	2367.525
8.5	2359.527
9.0	2349.129
9.5	2337.931
10.0	2325.134
10.5	2310.737
11.0	2295.540
11.5	2277.943
12.0	2259.547
12.5	2240.351
13.0	2220.355
13.5	2199.559
14.0	2177.963
14.5	2154.768
15.0	2130.773
15.5	2105.978
16.0	2080.383
16.5	2055.588
17.0	2030.793
17.5	2005.998
18.0	1982.003
18.5	1957.208
19.0	1933.212
19.5	1910.817
20.0	1886.822
20.5	1864.426
21.0	1841.231
21.5	1818.036
22.0	1794.840
22.5	1770.845
23.0	1746.050
23.5	1720.455
24.0	1694.060
24.5	1666.866
25.0	1638.871
25.5	1610.077
26.0	1580.483
26.5	1549.289

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CANDELA TABULATION - (Cont.)

27.0	1518.096
27.5	1486.102
28.0	1452.509
28.5	1418.916
29.0	1385.322
29.5	1350.929
30.0	1315.736
30.5	1281.343
31.0	1246.150
31.5	1210.957
32.0	1176.564
32.5	1142.171
33.0	1107.778
33.5	1074.185
34.0	1040.591
34.5	1008.598
35.0	976.604
35.5	946.210
36.0	913.417
36.5	881.423
37.0	849.430
37.5	818.236
38.0	787.602
38.5	757.048
39.0	726.894
39.5	697.220
40.0	668.026
40.5	639.312
41.0	611.078
41.5	583.563
42.0	556.528
42.5	530.294
43.0	504.699
43.5	479.824
44.0	455.909
44.5	432.473
45.0	409.998
45.5	388.242
46.0	367.366
46.5	347.290
47.0	328.014
47.5	309.538
48.0	291.782
48.5	274.825
49.0	258.508
49.5	242.831
50.0	227.794
50.5	213.477
51.0	199.640
51.5	186.363
52.0	173.485
52.5	161.088
53.0	149.170
53.5	137.412
54.0	126.055
54.5	114.777

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CANDELA TABULATION - (Cont.)

55.0	103.499
55.5	92.062
56.0	80.544
56.5	69.266
57.0	58.548
57.5	48.550
58.0	39.432
58.5	31.194
59.0	23.915
59.5	17.836
60.0	13.117
60.5	9.678
61.0	7.359
61.5	6.079
62.0	5.199
62.5	4.639
63.0	4.159
63.5	3.839
64.0	3.519
64.5	3.199
65.0	2.959
65.5	2.719
66.0	2.559
66.5	2.400
67.0	2.160
67.5	2.080
68.0	1.920
68.5	1.760
69.0	1.680
69.5	1.520
70.0	1.440
70.5	1.360
71.0	1.280
71.5	1.200
72.0	1.120
72.5	1.040
73.0	0.960
73.5	0.880
74.0	0.880
74.5	0.800
75.0	0.720
75.5	0.720
76.0	0.640
76.5	0.640
77.0	0.640
77.5	0.560
78.0	0.560
78.5	0.480
79.0	0.480
79.5	0.480
80.0	0.480
80.5	0.480
81.0	0.480
81.5	0.480
82.0	0.480
82.5	0.400

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CANDELA TABULATION - (Cont.)

83.0	0.480
83.5	0.480
84.0	0.480
84.5	0.480
85.0	0.480
85.5	0.480
86.0	0.480
86.5	0.480
87.0	0.480
87.5	0.560
88.0	0.560
88.5	0.560
89.0	0.560
89.5	0.480
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
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96.5	0.000
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97.5	0.000
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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
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117.5	0.000
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118.5	0.000
119.0	0.000
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120.0	0.000
120.5	0.000
121.0	0.000
121.5	0.000
122.0	0.000
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123.0	0.000
123.5	0.000
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124.5	0.000
125.0	0.000
125.5	0.000
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126.5	0.000
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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
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147.5	0.000
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155.0	0.000
155.5	0.000
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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	820.87	N.A.	31.60
0-30	1565.02	N.A.	60.30
0-40	2173.29	N.A.	83.70
0-60	2590.2	N.A.	99.80
0-80	2594.82	N.A.	100.00
0-90	2595.34	N.A.	100.00
10-90	2368.95	N.A.	91.30
20-40	1352.42	N.A.	52.10
20-50	1675.04	N.A.	64.50
40-70	420.67	N.A.	16.20
60-80	4.62	N.A.	0.20
70-80	0.86	N.A.	0.00
80-90	0.52	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	2595.34	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	226.39
10-20	594.48
20-30	744.15
30-40	608.27
40-50	322.62
50-60	94.29
60-70	3.75
70-80	0.86
80-90	0.52
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	108	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

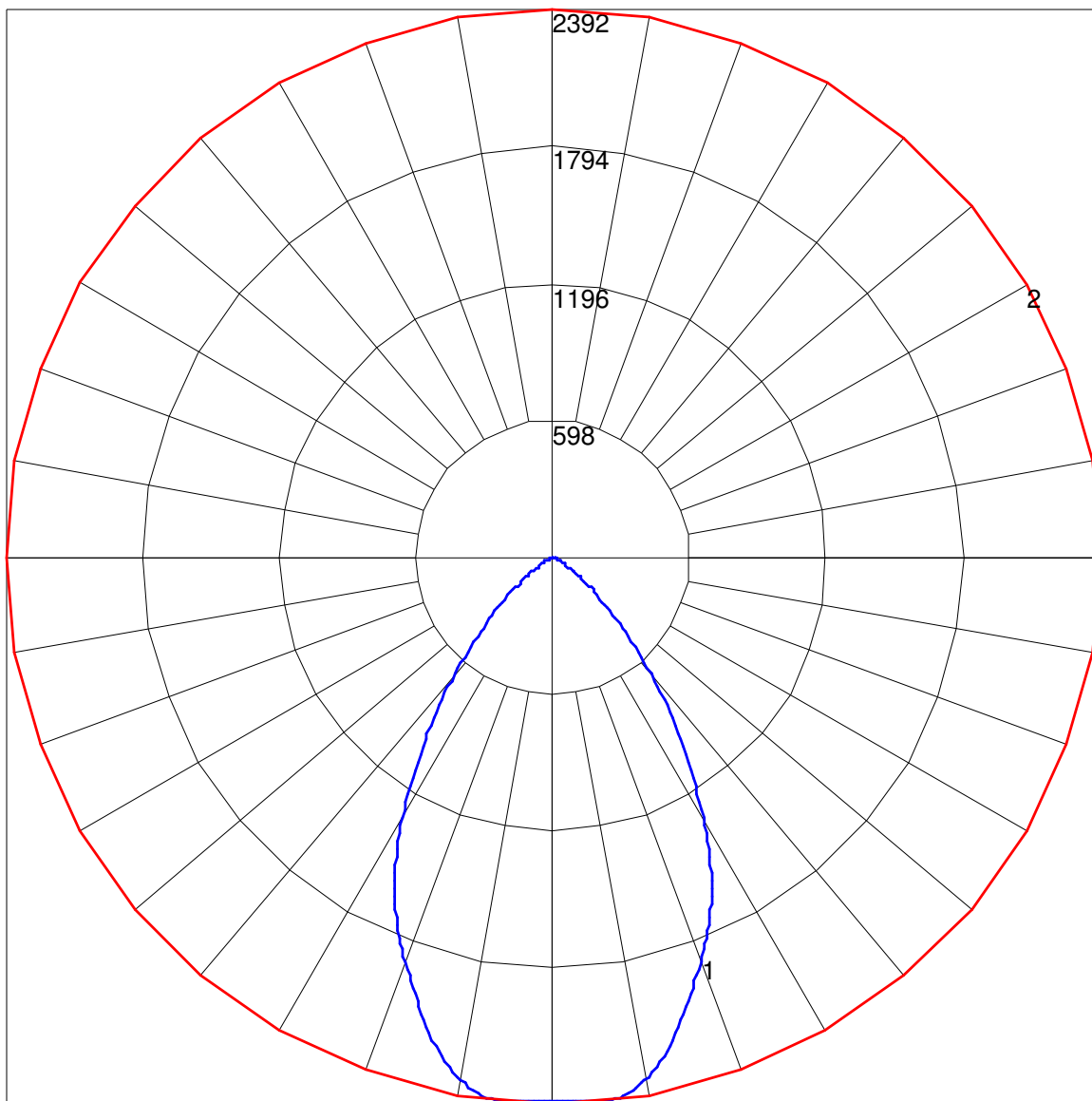
Reflectances

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	11.5	12.6	11.9	12.9	13.2	11.5	12.6	11.9	12.9	13.2
	3H	11.4	12.3	11.8	12.6	13.0	11.4	12.3	11.8	12.6	13.0
	4H	11.3	12.2	11.7	12.5	12.9	11.3	12.2	11.7	12.5	12.9
	6H	11.2	12.0	11.6	12.3	12.7	11.2	12.0	11.6	12.3	12.7
	8H	11.1	11.9	11.6	12.3	12.7	11.1	11.9	11.6	12.3	12.7
	12H	11.1	11.8	11.5	12.2	12.6	11.1	11.8	11.5	12.2	12.6
4H	2H	11.3	12.1	11.7	12.5	12.9	11.3	12.1	11.7	12.5	12.9
	3H	11.1	11.8	11.5	12.2	12.6	11.1	11.8	11.5	12.2	12.6
	4H	11.0	11.6	11.4	12.0	12.5	11.0	11.6	11.4	12.0	12.5
	6H	10.9	11.4	11.4	11.9	12.3	10.9	11.4	11.4	11.9	12.3
	8H	10.8	11.3	11.3	11.8	12.2	10.8	11.3	11.3	11.8	12.2
	12H	10.8	11.2	11.3	11.7	12.2	10.8	11.2	11.3	11.7	12.2
8H	4H	10.8	11.3	11.3	11.8	12.2	10.8	11.3	11.3	11.8	12.2
	6H	10.7	11.1	11.2	11.6	12.1	10.7	11.1	11.2	11.6	12.1
	8H	10.6	11.0	11.2	11.5	12.0	10.6	11.0	11.2	11.5	12.0
	12H	10.6	10.9	11.1	11.4	12.0	10.6	10.9	11.1	11.4	12.0
12H	4H	10.8	11.2	11.2	11.7	12.2	10.8	11.2	11.2	11.7	12.2
	6H	10.6	11.0	11.2	11.5	12.0	10.6	11.0	11.2	11.5	12.0
	8H	10.6	10.9	11.1	11.4	12.0	10.6	10.9	11.1	11.4	12.0

Maximum UGR = 13.2

POLAR GRAPH



Maximum Candela = 2392.32 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.)