

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 4LDR-L30-930-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-L30-930-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	2475
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
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	53830	53830	53830
55	16752	16752	16752
65	650	650	650
75	258	258	258
85	512	512	512

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CANDELA TABULATION

	<u>0</u>
0.0	2272.661
0.5	2272.661
1.0	2272.661
1.5	2273.424
2.0	2274.186
2.5	2274.949
3.0	2277.237
3.5	2278.762
4.0	2278.762
4.5	2280.287
5.0	2281.050
5.5	2280.287
6.0	2277.999
6.5	2275.712
7.0	2271.136
7.5	2264.272
8.0	2257.408
8.5	2249.782
9.0	2239.868
9.5	2229.191
10.0	2216.988
10.5	2203.261
11.0	2188.771
11.5	2171.993
12.0	2154.452
12.5	2136.149
13.0	2117.083
13.5	2097.254
14.0	2076.663
14.5	2054.547
15.0	2031.667
15.5	2008.026
16.0	1983.621
16.5	1959.979
17.0	1936.338
17.5	1912.696
18.0	1889.817
18.5	1866.175
19.0	1843.296
19.5	1821.942
20.0	1799.063
20.5	1777.709
21.0	1755.592
21.5	1733.476
22.0	1711.359
22.5	1688.480
23.0	1664.839
23.5	1640.434
24.0	1615.267
24.5	1589.337
25.0	1562.645
25.5	1535.190
26.0	1506.973
26.5	1477.230

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**CANDELA TABULATION - (Cont.)**

<b>27.0</b>	1447.487
<b>27.5</b>	1416.981
<b>28.0</b>	1384.950
<b>28.5</b>	1352.920
<b>29.0</b>	1320.889
<b>29.5</b>	1288.095
<b>30.0</b>	1254.539
<b>30.5</b>	1221.746
<b>31.0</b>	1188.190
<b>31.5</b>	1154.634
<b>32.0</b>	1121.840
<b>32.5</b>	1089.047
<b>33.0</b>	1056.254
<b>33.5</b>	1024.223
<b>34.0</b>	992.192
<b>34.5</b>	961.686
<b>35.0</b>	931.181
<b>35.5</b>	902.201
<b>36.0</b>	870.932
<b>36.5</b>	840.427
<b>37.0</b>	809.921
<b>37.5</b>	780.179
<b>38.0</b>	750.970
<b>38.5</b>	721.837
<b>39.0</b>	693.085
<b>39.5</b>	664.791
<b>40.0</b>	636.955
<b>40.5</b>	609.576
<b>41.0</b>	582.655
<b>41.5</b>	556.421
<b>42.0</b>	530.643
<b>42.5</b>	505.629
<b>43.0</b>	481.225
<b>43.5</b>	457.506
<b>44.0</b>	434.704
<b>44.5</b>	412.358
<b>45.0</b>	390.928
<b>45.5</b>	370.184
<b>46.0</b>	350.280
<b>46.5</b>	331.137
<b>47.0</b>	312.758
<b>47.5</b>	295.141
<b>48.0</b>	278.210
<b>48.5</b>	262.042
<b>49.0</b>	246.485
<b>49.5</b>	231.537
<b>50.0</b>	217.199
<b>50.5</b>	203.548
<b>51.0</b>	190.354
<b>51.5</b>	177.695
<b>52.0</b>	165.416
<b>52.5</b>	153.595
<b>53.0</b>	142.232
<b>53.5</b>	131.021
<b>54.0</b>	120.192
<b>54.5</b>	109.439

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**CANDELA TABULATION - (Cont.)**

55.0	98.685
55.5	87.780
56.0	76.798
56.5	66.044
57.0	55.825
57.5	46.292
58.0	37.598
58.5	29.743
59.0	22.803
59.5	17.007
60.0	12.507
60.5	9.228
61.0	7.016
61.5	5.796
62.0	4.957
62.5	4.423
63.0	3.966
63.5	3.661
64.0	3.356
64.5	3.051
65.0	2.822
65.5	2.593
66.0	2.440
66.5	2.288
67.0	2.059
67.5	1.983
68.0	1.830
68.5	1.678
69.0	1.602
69.5	1.449
70.0	1.373
70.5	1.296
71.0	1.220
71.5	1.144
72.0	1.068
72.5	0.991
73.0	0.915
73.5	0.839
74.0	0.839
74.5	0.763
75.0	0.686
75.5	0.686
76.0	0.610
76.5	0.610
77.0	0.610
77.5	0.534
78.0	0.534
78.5	0.458
79.0	0.458
79.5	0.458
80.0	0.458
80.5	0.458
81.0	0.458
81.5	0.458
82.0	0.458
82.5	0.381

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CANDELA TABULATION - (Cont.)

83.0	0.458
83.5	0.458
84.0	0.458
84.5	0.458
85.0	0.458
85.5	0.458
86.0	0.458
86.5	0.458
87.0	0.458
87.5	0.534
88.0	0.534
88.5	0.534
89.0	0.534
89.5	0.458
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
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123.0	0.000
123.5	0.000
124.0	0.000
124.5	0.000
125.0	0.000
125.5	0.000
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126.5	0.000
127.0	0.000
127.5	0.000
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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
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146.5	0.000
147.0	0.000
147.5	0.000
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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
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157.5	0.000
158.0	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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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	782.69	N.A.	31.60
0-30	1492.23	N.A.	60.30
0-40	2072.21	N.A.	83.70
0-60	2469.73	N.A.	99.80
0-80	2474.13	N.A.	100.00
0-90	2474.63	N.A.	100.00
10-90	2258.77	N.A.	91.30
20-40	1289.51	N.A.	52.10
20-50	1597.13	N.A.	64.50
40-70	401.10	N.A.	16.20
60-80	4.40	N.A.	0.20
70-80	0.82	N.A.	0.00
80-90	0.50	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	2474.63	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	215.86
10-20	566.83
20-30	709.53
30-40	579.98
40-50	307.62
50-60	89.90
60-70	3.58
70-80	0.82
80-90	0.50
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**

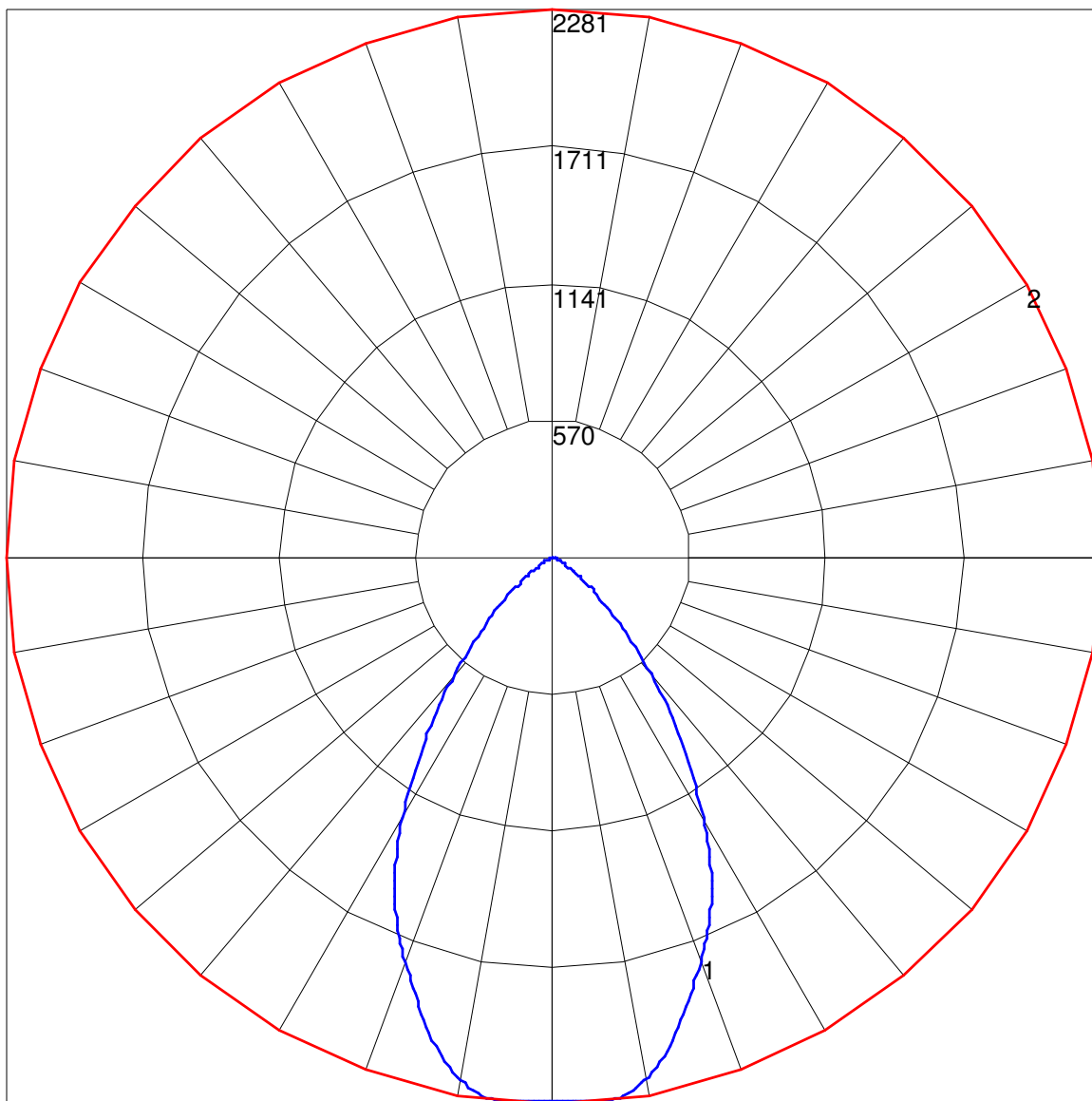
Reflectances

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	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	12.3	12.6	11.1	11.9	11.5	12.3	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 = 2281.05 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.)