

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4LDR-L30-840-WH-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM 4792018053.02
[TESTLAB] UL, LLC
[ISSUE DATE] 2025-12-10
[TEST DATE] 11/11/2025
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] 4LDR-L30-840-WH-DIM-UNV
[LUMINAIRE] 4" recessed downlight with textured white finish reflector
[MORE] 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	2639
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	26
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.04
Spacing Criterion (90-270)	1.04
Spacing Criterion (Diagonal)	1.04
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	63065	63065	63065
55	42391	42391	42391
65	31931	31931	31931
75	24246	24246	24246
85	17735	17735	17735

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CANDELA TABULATION

	<u>0</u>
0.0	1799.482
0.5	1800.433
1.0	1799.482
1.5	1798.531
2.0	1797.581
2.5	1796.630
3.0	1794.729
3.5	1792.828
4.0	1790.927
4.5	1788.075
5.0	1786.174
5.5	1782.371
6.0	1780.470
6.5	1775.717
7.0	1771.915
7.5	1767.162
8.0	1763.359
8.5	1758.606
9.0	1752.903
9.5	1747.199
10.0	1742.446
10.5	1736.743
11.0	1731.039
11.5	1724.385
12.0	1716.780
12.5	1710.126
13.0	1703.472
13.5	1694.916
14.0	1687.311
14.5	1679.707
15.0	1671.151
15.5	1662.596
16.0	1653.090
16.5	1644.535
17.0	1635.029
17.5	1624.572
18.0	1615.066
18.5	1604.609
19.0	1593.202
19.5	1581.795
20.0	1569.437
20.5	1557.080
21.0	1543.771
21.5	1528.562
22.0	1513.352
22.5	1497.192
23.0	1480.081
23.5	1461.069
24.0	1440.156
24.5	1420.193
25.0	1397.379
25.5	1374.565
26.0	1352.701
26.5	1327.985

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CANDELA TABULATION - (Cont.)

27.0	1303.270
27.5	1276.653
28.0	1250.987
28.5	1225.321
29.0	1199.655
29.5	1175.890
30.0	1151.174
30.5	1124.557
31.0	1097.941
31.5	1070.373
32.0	1043.757
32.5	1017.140
33.0	990.523
33.5	964.857
34.0	938.620
34.5	913.049
35.0	887.859
35.5	862.858
36.0	838.237
36.5	813.807
37.0	789.757
37.5	766.087
38.0	742.797
38.5	719.508
39.0	696.788
39.5	674.259
40.0	652.205
40.5	630.342
41.0	609.048
41.5	588.040
42.0	567.792
42.5	547.830
43.0	528.628
43.5	509.996
44.0	491.934
44.5	474.634
45.0	457.998
45.5	442.028
46.0	426.819
46.5	412.369
47.0	398.586
47.5	385.563
48.0	373.205
48.5	361.417
49.0	350.295
49.5	339.649
50.0	329.667
50.5	320.066
51.0	311.036
51.5	302.385
52.0	294.115
52.5	286.130
53.0	278.430
53.5	270.920
54.0	263.696
54.5	256.661

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CANDELA TABULATION - (Cont.)

55.0	249.722
55.5	243.163
56.0	236.889
56.5	230.710
57.0	224.531
57.5	218.447
58.0	212.364
58.5	206.280
59.0	200.386
59.5	194.682
60.0	188.979
60.5	183.465
61.0	177.952
61.5	172.724
62.0	167.495
62.5	162.457
63.0	157.514
63.5	152.666
64.0	147.723
64.5	143.160
65.0	138.597
65.5	134.129
66.0	129.662
66.5	125.384
67.0	121.201
67.5	117.114
68.0	113.121
68.5	109.129
69.0	105.231
69.5	101.429
70.0	97.721
70.5	94.109
71.0	90.497
71.5	86.980
72.0	83.558
72.5	80.230
73.0	76.903
73.5	73.766
74.0	70.629
74.5	67.492
75.0	64.451
75.5	61.504
76.0	58.652
76.5	55.800
77.0	53.043
77.5	50.287
78.0	47.720
78.5	45.058
79.0	42.492
79.5	40.020
80.0	37.549
80.5	35.172
81.0	32.796
81.5	30.514
82.0	28.328
82.5	26.141

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CANDELA TABULATION - (Cont.)

83.0	23.955
83.5	21.864
84.0	19.867
84.5	17.776
85.0	15.875
85.5	13.974
86.0	12.073
86.5	10.266
87.0	8.460
87.5	6.749
88.0	5.133
88.5	3.517
89.0	2.091
89.5	0.951
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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118.5	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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145.5	0.000
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147.0	0.000
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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	638.78	N.A.	24.20
0-30	1273.34	N.A.	48.30
0-40	1827.62	N.A.	69.30
0-60	2413.18	N.A.	91.40
0-80	2620.8	N.A.	99.30
0-90	2638.98	N.A.	100.00
10-90	2469.91	N.A.	93.60
20-40	1188.84	N.A.	45.00
20-50	1548.68	N.A.	58.70
40-70	724.09	N.A.	27.40
60-80	207.62	N.A.	7.90
70-80	69.09	N.A.	2.60
80-90	18.18	N.A.	0.70
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	2638.98	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	169.07
10-20	469.71
20-30	634.56
30-40	554.28
40-50	359.84
50-60	225.72
60-70	138.53
70-80	69.09
80-90	18.18
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	111	108	104	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	74	79	75	72	71
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	60	67	63	59	57
6	79	68	60	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37

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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

X=2H	Y=2H	22.1	23.4	22.4	23.7	24.0	22.1	23.4	22.4	23.7	24.0
	3H	23.3	24.5	23.7	24.8	25.2	23.3	24.5	23.7	24.8	25.2
	4H	23.7	24.8	24.1	25.2	25.6	23.7	24.8	24.1	25.2	25.6
	6H	24.0	25.0	24.4	25.4	25.8	24.0	25.0	24.4	25.4	25.8
	8H	24.1	25.1	24.6	25.5	25.9	24.1	25.1	24.6	25.5	25.9
	12H	24.2	25.1	24.6	25.5	25.9	24.2	25.1	24.6	25.5	25.9

UGR Viewed Endwise

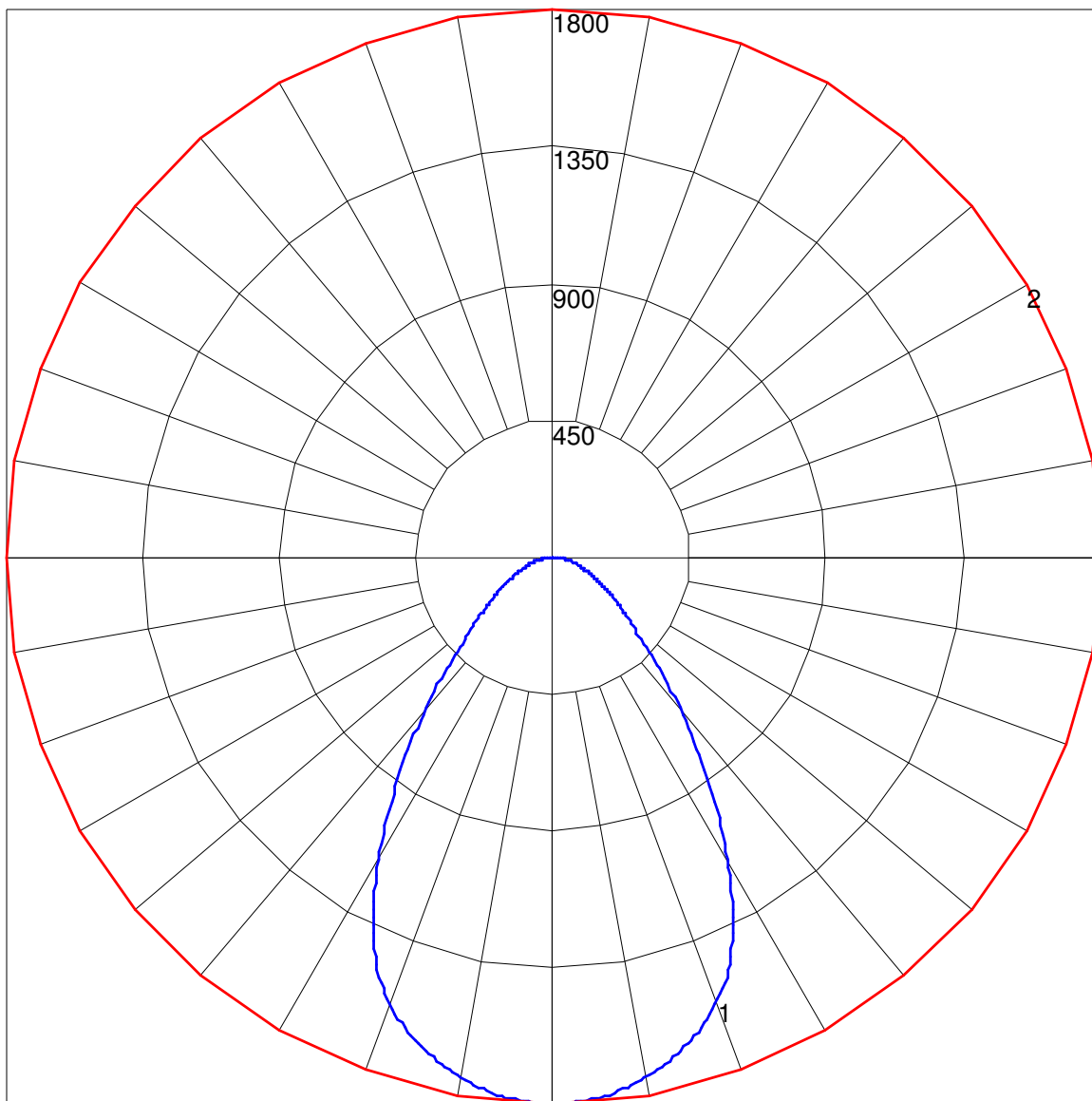
4H	2H	22.5	23.6	22.9	23.9	24.3	22.5	23.6	22.9	23.9	24.3
	3H	23.9	24.8	24.3	25.2	25.6	23.9	24.8	24.3	25.2	25.6
	4H	24.4	25.3	24.9	25.7	26.1	24.4	25.3	24.9	25.7	26.1
	6H	24.9	25.6	25.3	26.0	26.5	24.9	25.6	25.3	26.0	26.5
	8H	25.0	25.6	25.4	26.1	26.5	25.0	25.6	25.4	26.1	26.5
	12H	25.1	25.6	25.6	26.1	26.6	25.1	25.6	25.6	26.1	26.6

8H	4H	24.6	25.3	25.1	25.7	26.2	24.6	25.3	25.1	25.7	26.2
	6H	25.1	25.7	25.6	26.1	26.6	25.1	25.7	25.6	26.1	26.6
	8H	25.3	25.8	25.8	26.3	26.8	25.3	25.8	25.8	26.3	26.8
	12H	25.4	25.9	26.0	26.4	26.9	25.4	25.9	26.0	26.4	26.9

12H	4H	24.6	25.2	25.1	25.7	26.1	24.6	25.2	25.1	25.7	26.1
	6H	25.1	25.6	25.7	26.1	26.6	25.1	25.6	25.7	26.1	26.6
	8H	25.4	25.8	25.9	26.3	26.9	25.4	25.8	25.9	26.3	26.9

Maximum UGR = 26.9

POLAR GRAPH



Maximum Candela = 1800.433 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.)