

IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM 4792018053.05
[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-BL-DIM-UNV
[LUMINAIRE] 4" recessed downlight with textured black 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	1228
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	47
Total Luminaire Watts	26
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.00
Spacing Criterion (90-270)	1.00
Spacing Criterion (Diagonal)	0.94
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	15398	15398	15398
55	1994	1994	1994
65	692	692	692
75	299	299	299
85	198	198	198

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 4LDR-L30-840-BL-DIM-UNV_.IES

CANDELA TABULATION

	<u>0</u>
0.0	1227.760
0.5	1227.760
1.0	1227.760
1.5	1226.877
2.0	1225.993
2.5	1225.110
3.0	1224.227
3.5	1221.577
4.0	1219.810
4.5	1218.044
5.0	1215.394
5.5	1213.628
6.0	1210.094
6.5	1207.445
7.0	1203.911
7.5	1200.378
8.0	1196.845
8.5	1192.429
9.0	1188.012
9.5	1183.596
10.0	1179.180
10.5	1173.880
11.0	1168.580
11.5	1163.281
12.0	1157.098
12.5	1151.798
13.0	1144.732
13.5	1139.432
14.0	1132.366
14.5	1126.183
15.0	1119.116
15.5	1112.050
16.0	1105.867
16.5	1098.801
17.0	1093.501
17.5	1086.435
18.0	1079.369
18.5	1072.303
19.0	1063.470
19.5	1053.754
20.0	1044.038
20.5	1034.322
21.0	1022.839
21.5	1011.356
22.0	998.107
22.5	984.858
23.0	969.842
23.5	953.943
24.0	936.277
24.5	917.729
25.0	899.180
25.5	879.747
26.0	859.432
26.5	838.498

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 4LDR-L30-840-BL-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

27.0	817.035
27.5	794.953
28.0	772.341
28.5	749.375
29.0	726.322
29.5	703.003
30.0	679.773
30.5	656.366
31.0	632.871
31.5	609.464
32.0	586.233
32.5	563.180
33.0	540.391
33.5	518.044
34.0	496.050
34.5	474.233
35.0	452.946
35.5	432.013
36.0	411.432
36.5	391.028
37.0	371.154
37.5	351.546
38.0	332.378
38.5	313.565
39.0	295.016
39.5	276.732
40.0	258.978
40.5	241.666
41.0	224.795
41.5	208.454
42.0	192.643
42.5	177.363
43.0	162.877
43.5	149.009
44.0	135.849
44.5	123.483
45.0	111.823
45.5	100.871
46.0	90.713
46.5	81.350
47.0	72.782
47.5	64.921
48.0	57.767
48.5	51.230
49.0	45.401
49.5	40.189
50.0	35.508
50.5	31.356
51.0	27.735
51.5	24.644
52.0	21.905
52.5	19.521
53.0	17.489
53.5	15.722
54.0	14.221
54.5	12.896

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 4LDR-L30-840-BL-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

55.0	11.748
55.5	10.864
56.0	10.069
56.5	9.451
57.0	8.921
57.5	8.391
58.0	7.861
58.5	7.331
59.0	6.890
59.5	6.360
60.0	6.006
60.5	5.565
61.0	5.211
61.5	4.858
62.0	4.505
62.5	4.240
63.0	3.975
63.5	3.710
64.0	3.445
64.5	3.268
65.0	3.003
65.5	2.826
66.0	2.650
66.5	2.473
67.0	2.297
67.5	2.208
68.0	2.032
68.5	1.943
69.0	1.767
69.5	1.678
70.0	1.590
70.5	1.502
71.0	1.413
71.5	1.325
72.0	1.237
72.5	1.148
73.0	1.060
73.5	1.060
74.0	0.972
74.5	0.883
75.0	0.795
75.5	0.795
76.0	0.707
76.5	0.707
77.0	0.618
77.5	0.618
78.0	0.530
78.5	0.530
79.0	0.530
79.5	0.442
80.0	0.442
80.5	0.353
81.0	0.353
81.5	0.353
82.0	0.353
82.5	0.265

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 4LDR-L30-840-BL-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

83.0	0.265
83.5	0.265
84.0	0.177
84.5	0.177
85.0	0.177
85.5	0.177
86.0	0.177
86.5	0.088
87.0	0.088
87.5	0.088
88.0	0.088
88.5	0.088
89.0	0.088
89.5	0.088
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-L30-840-BL-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-L30-840-BL-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-L30-840-BL-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-L30-840-BL-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	429.68	N.A.	35.00
0-30	834.68	N.A.	68.00
0-40	1117.33	N.A.	91.00
0-60	1223.8	N.A.	99.60
0-80	1227.96	N.A.	100.00
0-90	1228.18	N.A.	100.00
10-90	1113.3	N.A.	90.60
20-40	687.65	N.A.	56.00
20-50	781.17	N.A.	63.60
40-70	109.69	N.A.	8.90
60-80	4.16	N.A.	0.30
70-80	0.94	N.A.	0.10
80-90	0.21	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	1228.18	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	114.88
10-20	314.80
20-30	405.00
30-40	282.65
40-50	93.52
50-60	12.96
60-70	3.22
70-80	0.94
80-90	0.21
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-L30-840-BL-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	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86
3	102	95	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80
4	97	89	83	79	95	88	83	79	86	81	78	84	80	77	82	79	76	74
5	92	83	77	73	90	82	77	72	80	75	72	79	74	71	77	73	70	69
6	87	78	72	67	85	77	71	67	75	70	66	74	69	66	73	69	66	64
7	82	73	67	62	81	72	66	62	71	66	62	70	65	62	69	64	61	60
8	78	68	62	58	77	68	62	58	67	61	58	66	61	57	65	60	57	56
9	74	64	58	54	73	64	58	54	63	58	54	62	57	54	61	57	54	52
10	71	61	55	51	70	60	55	51	59	54	51	59	54	50	58	54	50	49

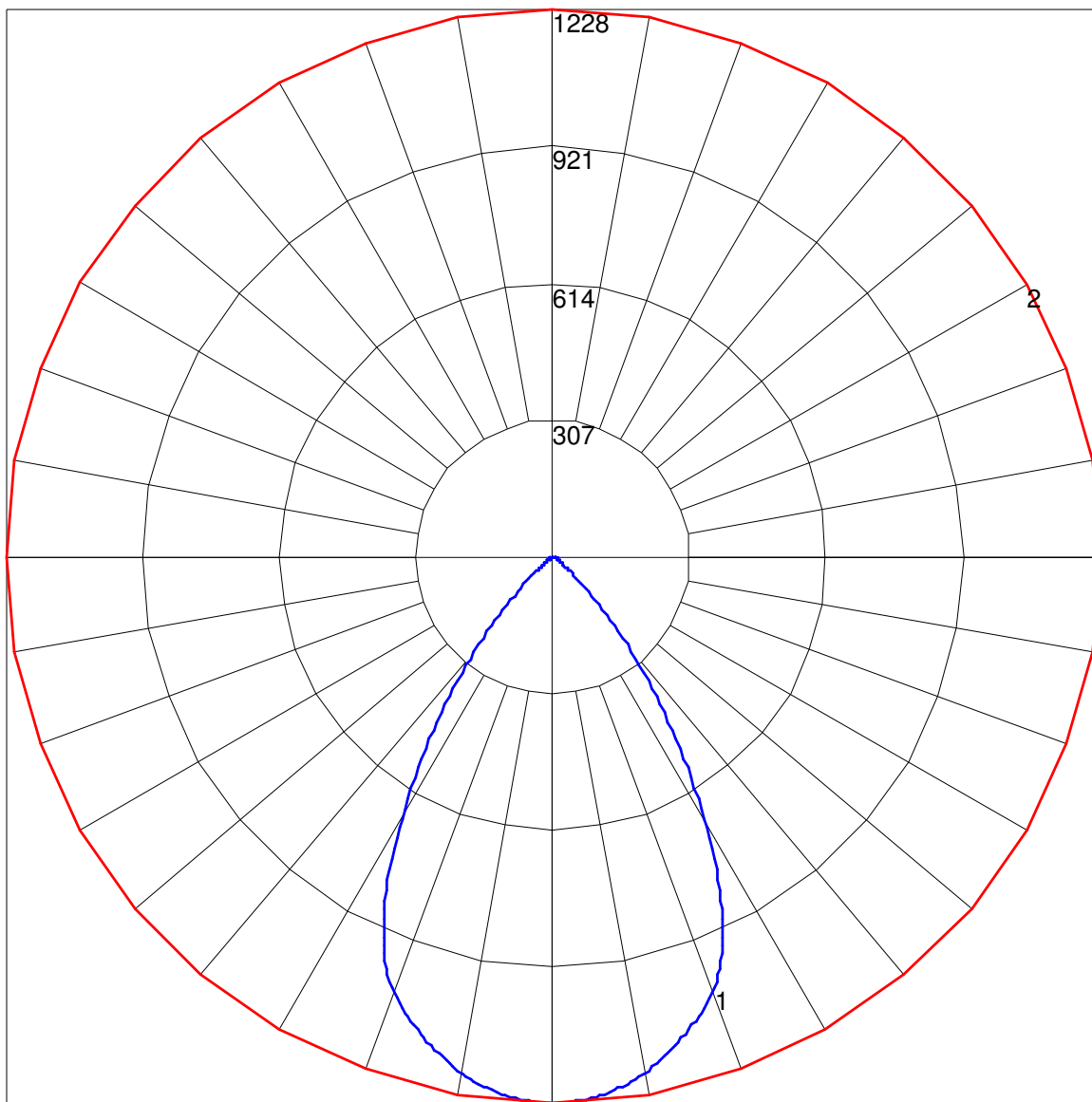
IES INDOOR REPORT
PHOTOMETRIC FILENAME : 4LDR-L30-840-BL-DIM-UNV_.IES

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	2.4	3.4	2.8	3.7	4.0	2.4	3.4	2.8	3.7	4.0
	3H	2.5	3.4	2.9	3.8	4.1	2.5	3.4	2.9	3.8	4.1
	4H	2.5	3.3	2.9	3.7	4.1	2.5	3.3	2.9	3.7	4.1
	6H	2.5	3.2	2.9	3.6	4.0	2.5	3.2	2.9	3.6	4.0
	8H	2.4	3.1	2.9	3.5	3.9	2.4	3.1	2.9	3.5	3.9
	12H	2.4	3.1	2.8	3.4	3.9	2.4	3.1	2.8	3.4	3.9
4H	2H	2.3	3.1	2.7	3.5	3.9	2.3	3.1	2.7	3.5	3.9
	3H	2.6	3.2	3.0	3.6	4.0	2.6	3.2	3.0	3.6	4.0
	4H	2.6	3.1	3.0	3.6	4.0	2.6	3.1	3.0	3.6	4.0
	6H	2.5	3.0	3.0	3.5	4.0	2.5	3.0	3.0	3.5	4.0
	8H	2.5	3.0	3.0	3.4	3.9	2.5	3.0	3.0	3.4	3.9
	12H	2.5	2.8	3.0	3.3	3.8	2.5	2.8	3.0	3.3	3.8
8H	4H	2.4	2.9	2.9	3.4	3.8	2.4	2.9	2.9	3.4	3.8
	6H	2.4	2.8	3.0	3.3	3.8	2.4	2.8	3.0	3.3	3.8
	8H	2.4	2.7	3.0	3.3	3.8	2.4	2.7	3.0	3.3	3.8
	12H	2.4	2.7	2.9	3.2	3.7	2.4	2.7	2.9	3.2	3.7
12H	4H	2.4	2.8	2.9	3.3	3.7	2.4	2.8	2.9	3.3	3.7
	6H	2.4	2.7	2.9	3.2	3.7	2.4	2.7	2.9	3.2	3.7
	8H	2.4	2.7	2.9	3.2	3.7	2.4	2.7	2.9	3.2	3.7

Maximum UGR = 4.1

POLAR GRAPH



Maximum Candela = 1227.76 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)