

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4LDR-L30-930-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-L30-930-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	978
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	38
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	12258	12258	12258
55	1588	1588	1588
65	551	551	551
75	238	238	238
85	158	158	158

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CANDELA TABULATION

	<u>0</u>
0.0	977.440
0.5	977.440
1.0	977.440
1.5	976.737
2.0	976.034
2.5	975.331
3.0	974.627
3.5	972.518
4.0	971.111
4.5	969.705
5.0	967.595
5.5	966.189
6.0	963.376
6.5	961.267
7.0	958.454
7.5	955.641
8.0	952.828
8.5	949.312
9.0	945.796
9.5	942.280
10.0	938.764
10.5	934.545
11.0	930.326
11.5	926.107
12.0	921.185
12.5	916.965
13.0	911.340
13.5	907.121
14.0	901.495
14.5	896.573
15.0	890.947
15.5	885.322
16.0	880.399
16.5	874.774
17.0	870.555
17.5	864.929
18.0	859.303
18.5	853.678
19.0	846.646
19.5	838.911
20.0	831.176
20.5	823.441
21.0	814.299
21.5	805.157
22.0	794.610
22.5	784.062
23.0	772.107
23.5	759.450
24.0	745.386
24.5	730.619
25.0	715.852
25.5	700.382
26.0	684.208
26.5	667.542

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CANDELA TABULATION - (Cont.)

27.0	650.455
27.5	632.875
28.0	614.873
28.5	596.590
29.0	578.237
29.5	559.672
30.0	541.178
30.5	522.544
31.0	503.839
31.5	485.204
32.0	466.710
32.5	448.357
33.0	430.214
33.5	412.423
34.0	394.914
34.5	377.545
35.0	360.598
35.5	343.932
36.0	327.548
36.5	311.304
37.0	295.482
37.5	279.871
38.0	264.612
38.5	249.634
39.0	234.867
39.5	220.311
40.0	206.177
40.5	192.394
41.0	178.963
41.5	165.954
42.0	153.367
42.5	141.201
43.0	129.669
43.5	118.629
44.0	108.151
44.5	98.307
45.0	89.024
45.5	80.305
46.0	72.218
46.5	64.764
47.0	57.943
47.5	51.685
48.0	45.989
48.5	40.785
49.0	36.144
49.5	31.995
50.0	28.268
50.5	24.963
51.0	22.080
51.5	19.619
52.0	17.439
52.5	15.541
53.0	13.923
53.5	12.517
54.0	11.321
54.5	10.267

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CANDELA TABULATION - (Cont.)

55.0	9.352
55.5	8.649
56.0	8.016
56.5	7.524
57.0	7.102
57.5	6.680
58.0	6.258
58.5	5.837
59.0	5.485
59.5	5.063
60.0	4.782
60.5	4.430
61.0	4.149
61.5	3.868
62.0	3.586
62.5	3.375
63.0	3.164
63.5	2.953
64.0	2.742
64.5	2.602
65.0	2.391
65.5	2.250
66.0	2.110
66.5	1.969
67.0	1.828
67.5	1.758
68.0	1.617
68.5	1.547
69.0	1.406
69.5	1.336
70.0	1.266
70.5	1.195
71.0	1.125
71.5	1.055
72.0	0.984
72.5	0.914
73.0	0.844
73.5	0.844
74.0	0.774
74.5	0.703
75.0	0.633
75.5	0.633
76.0	0.563
76.5	0.563
77.0	0.492
77.5	0.492
78.0	0.422
78.5	0.422
79.0	0.422
79.5	0.352
80.0	0.352
80.5	0.281
81.0	0.281
81.5	0.281
82.0	0.281
82.5	0.211

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CANDELA TABULATION - (Cont.)

83.0	0.211
83.5	0.211
84.0	0.141
84.5	0.141
85.0	0.141
85.5	0.141
86.0	0.141
86.5	0.070
87.0	0.070
87.5	0.070
88.0	0.070
88.5	0.070
89.0	0.070
89.5	0.070
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
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
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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

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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
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

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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	342.07	N.A.	35.00
0-30	664.50	N.A.	68.00
0-40	889.52	N.A.	91.00
0-60	974.29	N.A.	99.60
0-80	977.60	N.A.	100.00
0-90	977.77	N.A.	100.00
10-90	886.32	N.A.	90.60
20-40	547.45	N.A.	56.00
20-50	621.90	N.A.	63.60
40-70	87.33	N.A.	8.90
60-80	3.31	N.A.	0.30
70-80	0.75	N.A.	0.10
80-90	0.17	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	977.77	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	91.46
10-20	250.62
20-30	322.43
30-40	225.02
40-50	74.45
50-60	10.31
60-70	2.56
70-80	0.75
80-90	0.17
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	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	78	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	61	68	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	53	50	49

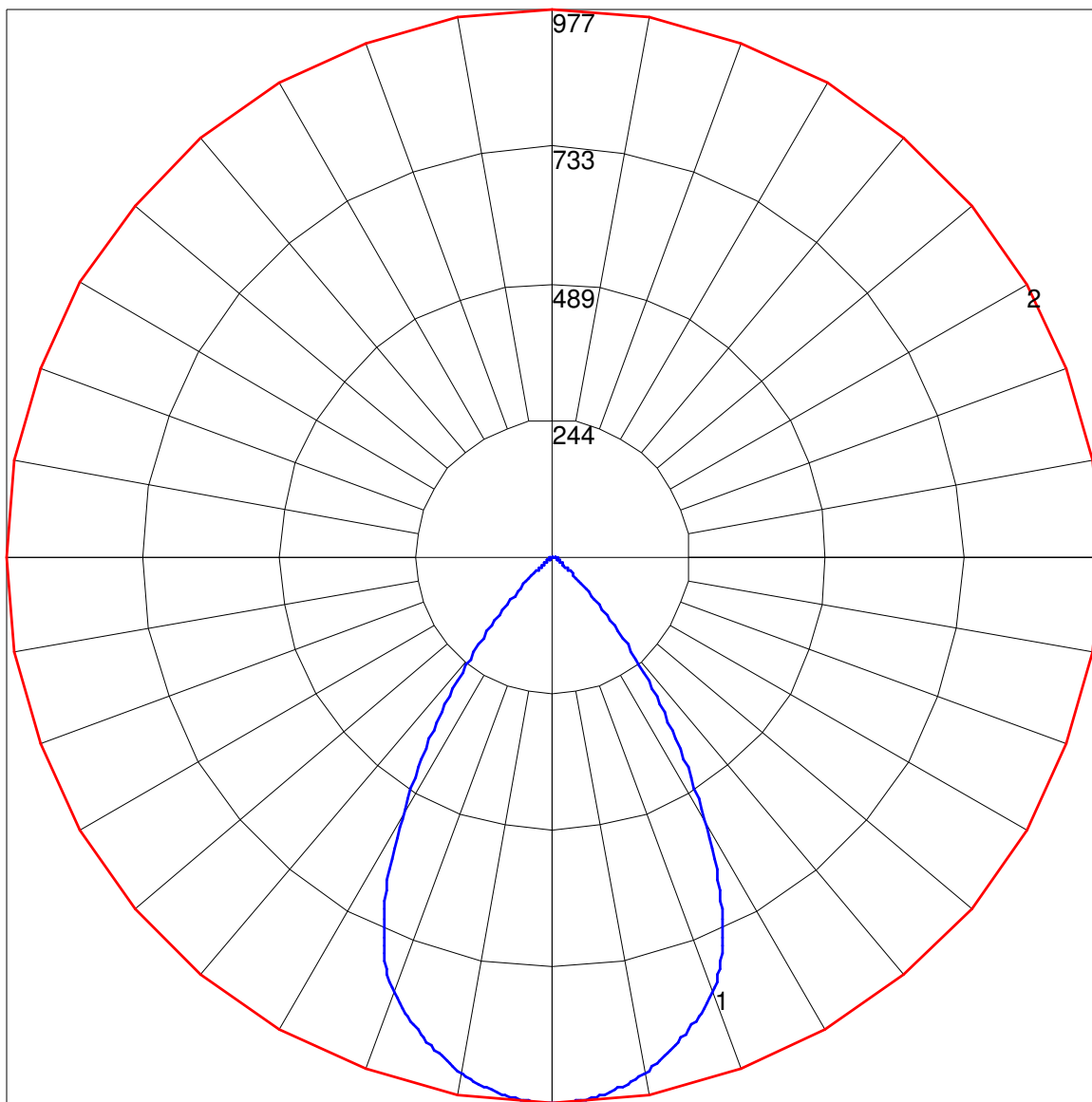
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UGR TABLE - CORRECTED

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	1.6	2.6	2.0	2.9	3.2	1.6	2.6	2.0	2.9	3.2
	3H	1.7	2.6	2.1	3.0	3.3	1.7	2.6	2.1	3.0	3.3
	4H	1.7	2.5	2.1	2.9	3.3	1.7	2.5	2.1	2.9	3.3
	6H	1.7	2.4	2.1	2.8	3.2	1.7	2.4	2.1	2.8	3.2
	8H	1.6	2.3	2.1	2.7	3.1	1.6	2.3	2.1	2.7	3.1
	12H	1.6	2.3	2.0	2.6	3.1	1.6	2.3	2.0	2.6	3.1
4H	2H	1.5	2.3	1.9	2.7	3.1	1.5	2.3	1.9	2.7	3.1
	3H	1.8	2.4	2.2	2.8	3.2	1.8	2.4	2.2	2.8	3.2
	4H	1.8	2.3	2.2	2.8	3.2	1.8	2.3	2.2	2.8	3.2
	6H	1.7	2.2	2.2	2.7	3.2	1.7	2.2	2.2	2.7	3.2
	8H	1.7	2.2	2.2	2.6	3.1	1.7	2.2	2.2	2.6	3.1
	12H	1.7	2.0	2.2	2.5	3.0	1.7	2.0	2.2	2.5	3.0
8H	4H	1.6	2.1	2.1	2.6	3.0	1.6	2.1	2.1	2.6	3.0
	6H	1.6	2.0	2.2	2.5	3.0	1.6	2.0	2.2	2.5	3.0
	8H	1.6	1.9	2.2	2.5	3.0	1.6	1.9	2.2	2.5	3.0
	12H	1.6	1.9	2.1	2.4	2.9	1.6	1.9	2.1	2.4	2.9
12H	4H	1.6	2.0	2.1	2.5	2.9	1.6	2.0	2.1	2.5	2.9
	6H	1.6	1.9	2.1	2.4	2.9	1.6	1.9	2.1	2.4	2.9
	8H	1.6	1.9	2.1	2.4	2.9	1.6	1.9	2.1	2.4	2.9

Maximum UGR = 3.3

POLAR GRAPH



Maximum Candela = 977.44 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.)