

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 4LDR-L30-835-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-L30-835-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	1192
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	46
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	14949	14949	14949
55	1936	1936	1936
65	672	672	672
75	290	290	290
85	192	192	192

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CANDELA TABULATION

	<u>0</u>
0.0	1192.000
0.5	1192.000
1.0	1192.000
1.5	1191.143
2.0	1190.285
2.5	1189.427
3.0	1188.570
3.5	1185.997
4.0	1184.282
4.5	1182.567
5.0	1179.994
5.5	1178.279
6.0	1174.849
6.5	1172.276
7.0	1168.846
7.5	1165.416
8.0	1161.986
8.5	1157.698
9.0	1153.410
9.5	1149.122
10.0	1144.835
10.5	1139.689
11.0	1134.544
11.5	1129.399
12.0	1123.396
12.5	1118.250
13.0	1111.390
13.5	1106.245
14.0	1099.384
14.5	1093.381
15.0	1086.521
15.5	1079.661
16.0	1073.658
16.5	1066.797
17.0	1061.652
17.5	1054.791
18.0	1047.931
18.5	1041.071
19.0	1032.495
19.5	1023.062
20.0	1013.629
20.5	1004.196
21.0	993.048
21.5	981.899
22.0	969.036
22.5	956.173
23.0	941.594
23.5	926.158
24.0	909.007
24.5	890.999
25.0	872.990
25.5	854.124
26.0	834.400
26.5	814.076

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CANDELA TABULATION - (Cont.)

27.0	793.237
27.5	771.799
28.0	749.845
28.5	727.549
29.0	705.167
29.5	682.527
30.0	659.974
30.5	637.248
31.0	614.437
31.5	591.712
32.0	569.159
32.5	546.776
33.0	524.652
33.5	502.955
34.0	481.602
34.5	460.421
35.0	439.754
35.5	419.430
36.0	399.449
36.5	379.639
37.0	360.344
37.5	341.306
38.0	322.698
38.5	304.432
39.0	286.423
39.5	268.672
40.0	251.435
40.5	234.627
41.0	218.247
41.5	202.383
42.0	187.033
42.5	172.197
43.0	158.133
43.5	144.669
44.0	131.892
44.5	119.886
45.0	108.566
45.5	97.933
46.0	88.071
46.5	78.981
47.0	70.662
47.5	63.030
48.0	56.084
48.5	49.738
49.0	44.078
49.5	39.019
50.0	34.474
50.5	30.443
51.0	26.927
51.5	23.926
52.0	21.267
52.5	18.952
53.0	16.980
53.5	15.264
54.0	13.807
54.5	12.520

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CANDELA TABULATION - (Cont.)

55.0	11.405
55.5	10.548
56.0	9.776
56.5	9.176
57.0	8.661
57.5	8.147
58.0	7.632
58.5	7.118
59.0	6.689
59.5	6.174
60.0	5.831
60.5	5.403
61.0	5.060
61.5	4.717
62.0	4.374
62.5	4.116
63.0	3.859
63.5	3.602
64.0	3.344
64.5	3.173
65.0	2.916
65.5	2.744
66.0	2.573
66.5	2.401
67.0	2.230
67.5	2.144
68.0	1.972
68.5	1.887
69.0	1.715
69.5	1.629
70.0	1.544
70.5	1.458
71.0	1.372
71.5	1.286
72.0	1.201
72.5	1.115
73.0	1.029
73.5	1.029
74.0	0.943
74.5	0.858
75.0	0.772
75.5	0.772
76.0	0.686
76.5	0.686
77.0	0.600
77.5	0.600
78.0	0.515
78.5	0.515
79.0	0.515
79.5	0.429
80.0	0.429
80.5	0.343
81.0	0.343
81.5	0.343
82.0	0.343
82.5	0.257

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CANDELA TABULATION - (Cont.)

83.0	0.257
83.5	0.257
84.0	0.172
84.5	0.172
85.0	0.172
85.5	0.172
86.0	0.172
86.5	0.086
87.0	0.086
87.5	0.086
88.0	0.086
88.5	0.086
89.0	0.086
89.5	0.086
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
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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	417.16	N.A.	35.00
0-30	810.37	N.A.	68.00
0-40	1084.79	N.A.	91.00
0-60	1188.16	N.A.	99.60
0-80	1192.2	N.A.	100.00
0-90	1192.41	N.A.	100.00
10-90	1080.87	N.A.	90.60
20-40	667.62	N.A.	56.00
20-50	758.42	N.A.	63.60
40-70	106.50	N.A.	8.90
60-80	4.04	N.A.	0.30
70-80	0.91	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	1192.41	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	111.53
10-20	305.63
20-30	393.20
30-40	274.42
40-50	90.79
50-60	12.58
60-70	3.13
70-80	0.91
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

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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	96	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

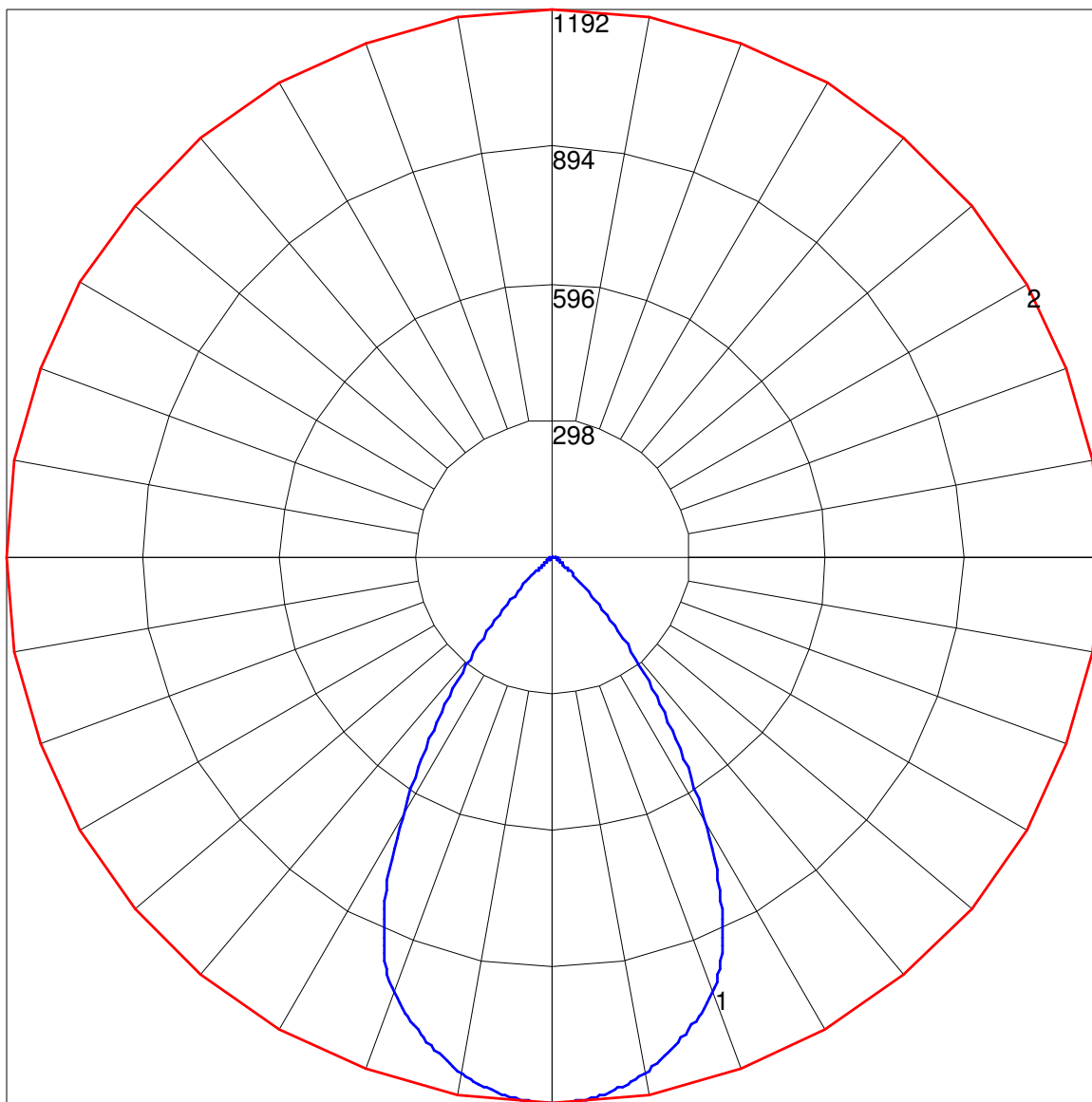
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UGR TABLE - CORRECTED

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	2.3	3.3	2.7	3.6	3.9	2.3	3.3	2.7	3.6	3.9
	3H	2.4	3.3	2.8	3.7	4.0	2.4	3.3	2.8	3.7	4.0
	4H	2.4	3.2	2.8	3.6	4.0	2.4	3.2	2.8	3.6	4.0
	6H	2.4	3.1	2.8	3.5	3.9	2.4	3.1	2.8	3.5	3.9
	8H	2.3	3.0	2.8	3.4	3.8	2.3	3.0	2.8	3.4	3.8
	12H	2.3	3.0	2.7	3.3	3.8	2.3	3.0	2.7	3.3	3.8
4H	2H	2.2	3.0	2.6	3.4	3.8	2.2	3.0	2.6	3.4	3.8
	3H	2.5	3.1	2.9	3.5	3.9	2.5	3.1	2.9	3.5	3.9
	4H	2.5	3.0	2.9	3.5	3.9	2.5	3.0	2.9	3.5	3.9
	6H	2.4	2.9	2.9	3.4	3.9	2.4	2.9	2.9	3.4	3.9
	8H	2.4	2.9	2.9	3.3	3.8	2.4	2.9	2.9	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
8H	4H	2.3	2.8	2.8	3.3	3.7	2.3	2.8	2.8	3.3	3.7
	6H	2.3	2.7	2.9	3.2	3.7	2.3	2.7	2.9	3.2	3.7
	8H	2.3	2.6	2.9	3.2	3.7	2.3	2.6	2.9	3.2	3.7
	12H	2.3	2.6	2.8	3.1	3.6	2.3	2.6	2.8	3.1	3.6
12H	4H	2.3	2.7	2.8	3.2	3.6	2.3	2.7	2.8	3.2	3.6
	6H	2.3	2.6	2.8	3.1	3.6	2.3	2.6	2.8	3.1	3.6
	8H	2.3	2.6	2.8	3.1	3.6	2.3	2.6	2.8	3.1	3.6

Maximum UGR = 4.0

POLAR GRAPH



Maximum Candela = 1192 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.)