

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4LDR-L30-835-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-L30-835-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	2562
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
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	61228	61228	61228
55	41157	41157	41157
65	31001	31001	31001
75	23540	23540	23540
85	17219	17219	17219

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CANDELA TABULATION

	<u>0</u>
0.0	1747.070
0.5	1747.993
1.0	1747.070
1.5	1746.147
2.0	1745.224
2.5	1744.301
3.0	1742.455
3.5	1740.610
4.0	1738.764
4.5	1735.995
5.0	1734.149
5.5	1730.458
6.0	1728.612
6.5	1723.997
7.0	1720.306
7.5	1715.691
8.0	1711.999
8.5	1707.385
9.0	1701.847
9.5	1696.310
10.0	1691.695
10.5	1686.158
11.0	1680.620
11.5	1674.160
12.0	1666.777
12.5	1660.316
13.0	1653.856
13.5	1645.550
14.0	1638.166
14.5	1630.783
15.0	1622.477
15.5	1614.171
16.0	1604.942
16.5	1596.635
17.0	1587.406
17.5	1577.254
18.0	1568.025
18.5	1557.873
19.0	1546.798
19.5	1535.723
20.0	1523.726
20.5	1511.728
21.0	1498.807
21.5	1484.040
22.0	1469.274
22.5	1453.584
23.0	1436.972
23.5	1418.514
24.0	1398.210
24.5	1378.829
25.0	1356.679
25.5	1334.529
26.0	1313.302
26.5	1289.306

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 4LDR-L30-835-WH-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

27.0	1265.311
27.5	1239.469
28.0	1214.550
28.5	1189.632
29.0	1164.713
29.5	1141.641
30.0	1117.645
30.5	1091.803
31.0	1065.962
31.5	1039.197
32.0	1013.356
32.5	987.514
33.0	961.673
33.5	936.754
34.0	911.282
34.5	886.456
35.0	861.999
35.5	837.726
36.0	813.823
36.5	790.104
37.0	766.754
37.5	743.774
38.0	721.162
38.5	698.551
39.0	676.494
39.5	654.621
40.0	633.209
40.5	611.982
41.0	591.309
41.5	570.913
42.0	551.255
42.5	531.873
43.0	513.231
43.5	495.142
44.0	477.606
44.5	460.809
45.0	444.658
45.5	429.153
46.0	414.387
46.5	400.359
47.0	386.976
47.5	374.333
48.0	362.335
48.5	350.891
49.0	340.093
49.5	329.756
50.0	320.065
50.5	310.744
51.0	301.976
51.5	293.578
52.0	285.549
52.5	277.796
53.0	270.321
53.5	263.030
54.0	256.015
54.5	249.186

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 4LDR-L30-835-WH-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

55.0	242.449
55.5	236.081
56.0	229.989
56.5	223.990
57.0	217.992
57.5	212.085
58.0	206.178
58.5	200.272
59.0	194.550
59.5	189.012
60.0	183.475
60.5	178.122
61.0	172.769
61.5	167.693
62.0	162.617
62.5	157.725
63.0	152.926
63.5	148.219
64.0	143.420
64.5	138.990
65.0	134.560
65.5	130.223
66.0	125.885
66.5	121.732
67.0	117.671
67.5	113.703
68.0	109.826
68.5	105.950
69.0	102.166
69.5	98.475
70.0	94.875
70.5	91.368
71.0	87.861
71.5	84.446
72.0	81.124
72.5	77.894
73.0	74.663
73.5	71.618
74.0	68.572
74.5	65.527
75.0	62.573
75.5	59.712
76.0	56.944
76.5	54.175
77.0	51.498
77.5	48.822
78.0	46.330
78.5	43.746
79.0	41.254
79.5	38.855
80.0	36.455
80.5	34.148
81.0	31.840
81.5	29.625
82.0	27.503
82.5	25.380

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 4LDR-L30-835-WH-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

83.0	23.257
83.5	21.227
84.0	19.289
84.5	17.258
85.0	15.413
85.5	13.567
86.0	11.721
86.5	9.967
87.0	8.214
87.5	6.553
88.0	4.984
88.5	3.415
89.0	2.030
89.5	0.923
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-L30-835-WH-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
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131.5	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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 4LDR-L30-835-WH-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-L30-835-WH-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

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	620.17	N.A.	24.20
0-30	1236.25	N.A.	48.30
0-40	1774.39	N.A.	69.30
0-60	2342.89	N.A.	91.40
0-80	2544.46	N.A.	99.30
0-90	2562.12	N.A.	100.00
10-90	2397.97	N.A.	93.60
20-40	1154.21	N.A.	45.00
20-50	1503.58	N.A.	58.70
40-70	703.00	N.A.	27.40
60-80	201.57	N.A.	7.90
70-80	67.08	N.A.	2.60
80-90	17.65	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	2562.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	164.15
10-20	456.03
20-30	616.08
30-40	538.14
40-50	349.36
50-60	219.14
60-70	134.49
70-80	67.08
80-90	17.65
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	22.0	23.3	22.3	23.6	23.9	UGR Viewed Endwise			
	3H	23.2	24.4	23.6	24.7	25.1	22.0	23.3	22.3	23.6
	4H	23.6	24.7	24.0	25.1	25.5	23.2	24.4	23.6	24.7
	6H	23.9	24.9	24.3	25.3	25.7	23.6	24.7	24.0	25.1
	8H	24.0	25.0	24.5	25.4	25.8	23.9	24.9	24.3	25.3
	12H	24.1	25.0	24.5	25.4	25.8	24.0	25.0	24.5	25.4

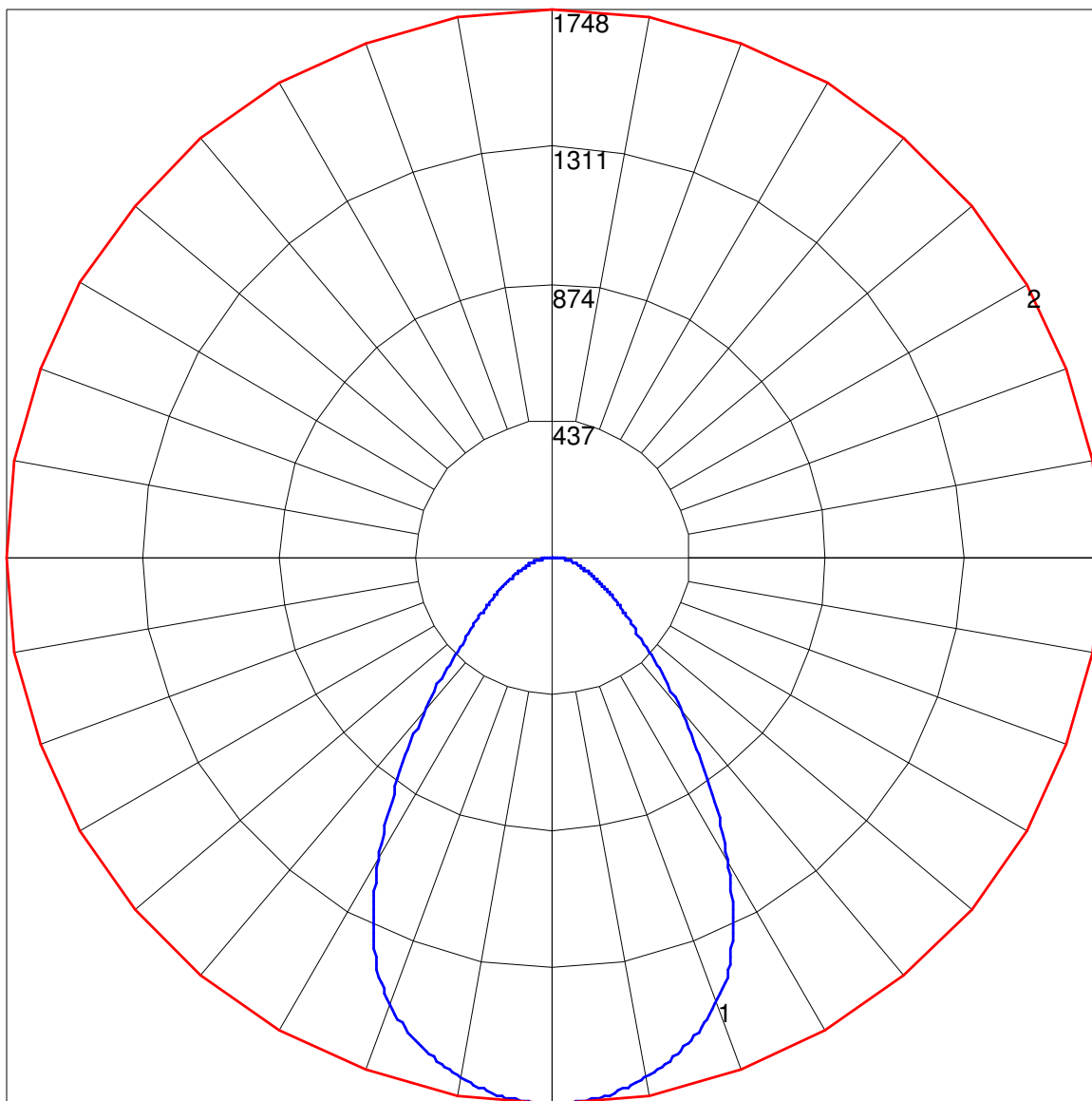
4H	2H	22.4	23.5	22.8	23.8	24.2	22.4	23.5	22.8	23.8
	3H	23.8	24.7	24.2	25.1	25.5	23.8	24.7	24.2	25.1
	4H	24.4	25.2	24.8	25.6	26.0	24.4	25.2	24.8	25.6
	6H	24.8	25.5	25.2	25.9	26.4	24.8	25.5	25.2	25.9
	8H	24.9	25.5	25.3	26.0	26.4	24.9	25.5	25.3	26.0
	12H	25.0	25.5	25.5	26.0	26.5	25.0	25.5	25.5	26.0

8H	4H	24.5	25.2	25.0	25.6	26.1	24.5	25.2	25.0	25.6
	6H	25.0	25.6	25.5	26.1	26.5	25.0	25.6	25.5	26.1
	8H	25.2	25.7	25.7	26.2	26.7	25.2	25.7	25.7	26.2
	12H	25.3	25.8	25.9	26.3	26.8	25.3	25.8	25.9	26.3

12H	4H	24.5	25.1	25.0	25.6	26.0	24.5	25.1	25.0	25.6
	6H	25.0	25.5	25.6	26.0	26.5	25.0	25.5	25.6	26.0
	8H	25.3	25.7	25.8	26.2	26.8	25.3	25.7	25.8	26.2

Maximum UGR = 26.8

POLAR GRAPH



Maximum Candela = 1747.993 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.)