

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6LDR-L15-835-WH-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] GEN FROM 4792018053.04  
[TESTLAB] UL, LLC  
[ISSUE DATE] 2025-12-11  
[TEST DATE] 11/12/2025  
[MANUFAC] WILLIAMS INDOOR  
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
[LUMCAT] 6LDR-L15-835-WH-DIM-UNV  
[LUMINAIRE] 6" 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	1330
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	13.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.06
Spacing Criterion (90-270)	1.06
Spacing Criterion (Diagonal)	1.02
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.50 ft (Diameter)
Luminous Width (90-270)	0.50 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	16037	16037	16037
55	11811	11811	11811
65	8876	8876	8876
75	6727	6727	6727
85	4906	4906	4906

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CANDELA TABULATION

	<u>0</u>
0.0	937.311
0.5	937.311
1.0	936.844
1.5	936.376
2.0	935.441
2.5	935.441
3.0	934.039
3.5	933.104
4.0	931.234
4.5	929.831
5.0	928.429
5.5	926.559
6.0	924.221
6.5	922.351
7.0	920.014
7.5	917.209
8.0	914.404
8.5	911.599
9.0	908.794
9.5	905.522
10.0	902.250
10.5	898.510
11.0	894.770
11.5	891.030
12.0	887.290
12.5	883.083
13.0	878.875
13.5	874.200
14.0	869.993
14.5	864.851
15.0	860.643
15.5	855.501
16.0	850.358
16.5	845.684
17.0	840.074
17.5	834.931
18.0	829.322
18.5	823.712
19.0	818.102
19.5	812.492
20.0	805.947
20.5	800.337
21.0	794.260
21.5	788.183
22.0	781.638
22.5	775.093
23.0	768.081
23.5	760.601
24.0	752.654
24.5	744.239
25.0	735.357
25.5	726.007
26.0	715.255
26.5	704.035

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**CANDELA TABULATION - (Cont.)**

27.0	691.880
27.5	679.258
28.0	665.701
28.5	651.677
29.0	637.185
29.5	621.757
30.0	606.330
30.5	591.838
31.0	575.944
31.5	560.517
32.0	544.622
32.5	528.260
33.0	511.898
33.5	496.003
34.0	480.109
34.5	464.214
35.0	448.600
35.5	433.267
36.0	418.260
36.5	403.348
37.0	388.809
37.5	374.410
38.0	360.339
38.5	346.501
39.0	332.897
39.5	319.714
40.0	306.858
40.5	294.376
41.0	282.409
41.5	270.955
42.0	260.016
42.5	249.685
43.0	239.914
43.5	230.751
44.0	222.243
44.5	214.343
45.0	207.050
45.5	200.271
46.0	194.101
46.5	188.304
47.0	183.021
47.5	178.159
48.0	173.531
48.5	169.277
49.0	165.163
49.5	161.236
50.0	157.496
50.5	153.803
51.0	150.204
51.5	146.651
52.0	143.191
52.5	139.872
53.0	136.553
53.5	133.327
54.0	130.102
54.5	126.876

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**CANDELA TABULATION - (Cont.)**

55.0	123.697
55.5	120.518
56.0	117.292
56.5	114.207
57.0	111.122
57.5	108.083
58.0	105.091
58.5	102.146
59.0	99.247
59.5	96.443
60.0	93.638
60.5	90.926
61.0	88.215
61.5	85.597
62.0	83.026
62.5	80.454
63.0	77.977
63.5	75.546
64.0	73.115
64.5	70.778
65.0	68.487
65.5	66.290
66.0	64.092
66.5	61.942
67.0	59.838
67.5	57.781
68.0	55.771
68.5	53.854
69.0	51.891
69.5	50.021
70.0	48.198
70.5	46.375
71.0	44.645
71.5	42.869
72.0	41.186
72.5	39.549
73.0	37.913
73.5	36.370
74.0	34.828
74.5	33.285
75.0	31.789
75.5	30.340
76.0	28.937
76.5	27.535
77.0	26.179
77.5	24.824
78.0	23.515
78.5	22.206
79.0	20.943
79.5	19.728
80.0	18.512
80.5	17.344
81.0	16.175
81.5	15.053
82.0	13.931
82.5	12.856

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CANDELA TABULATION - (Cont.)

83.0	11.781
83.5	10.752
84.0	9.724
84.5	8.742
85.0	7.807
85.5	6.872
86.0	5.937
86.5	5.049
87.0	4.161
87.5	3.319
88.0	2.478
88.5	1.683
89.0	0.982
89.5	0.514
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
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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
145.0	0.000
145.5	0.000
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147.0	0.000
147.5	0.000
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151.0	0.000
151.5	0.000
152.0	0.000
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153.0	0.000
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154.5	0.000
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156.0	0.000
156.5	0.000
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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	329.62	N.A.	24.80
0-30	662.37	N.A.	49.80
0-40	942.23	N.A.	70.80
0-60	1218.59	N.A.	91.60
0-80	1321.17	N.A.	99.30
0-90	1330.11	N.A.	100.00
10-90	1242.33	N.A.	93.40
20-40	612.61	N.A.	46.10
20-50	778.12	N.A.	58.50
40-70	344.87	N.A.	25.90
60-80	102.58	N.A.	7.70
70-80	34.07	N.A.	2.60
80-90	8.94	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	1330.11	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	87.78
10-20	241.85
20-30	332.75
30-40	279.86
40-50	165.51
50-60	110.85
60-70	68.51
70-80	34.07
80-90	8.94
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	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71
4	91	81	74	69	89	80	73	68	77	72	67	75	70	66	73	69	66	64
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	41
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	39	38

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**UGR TABLE - CORRECTED**

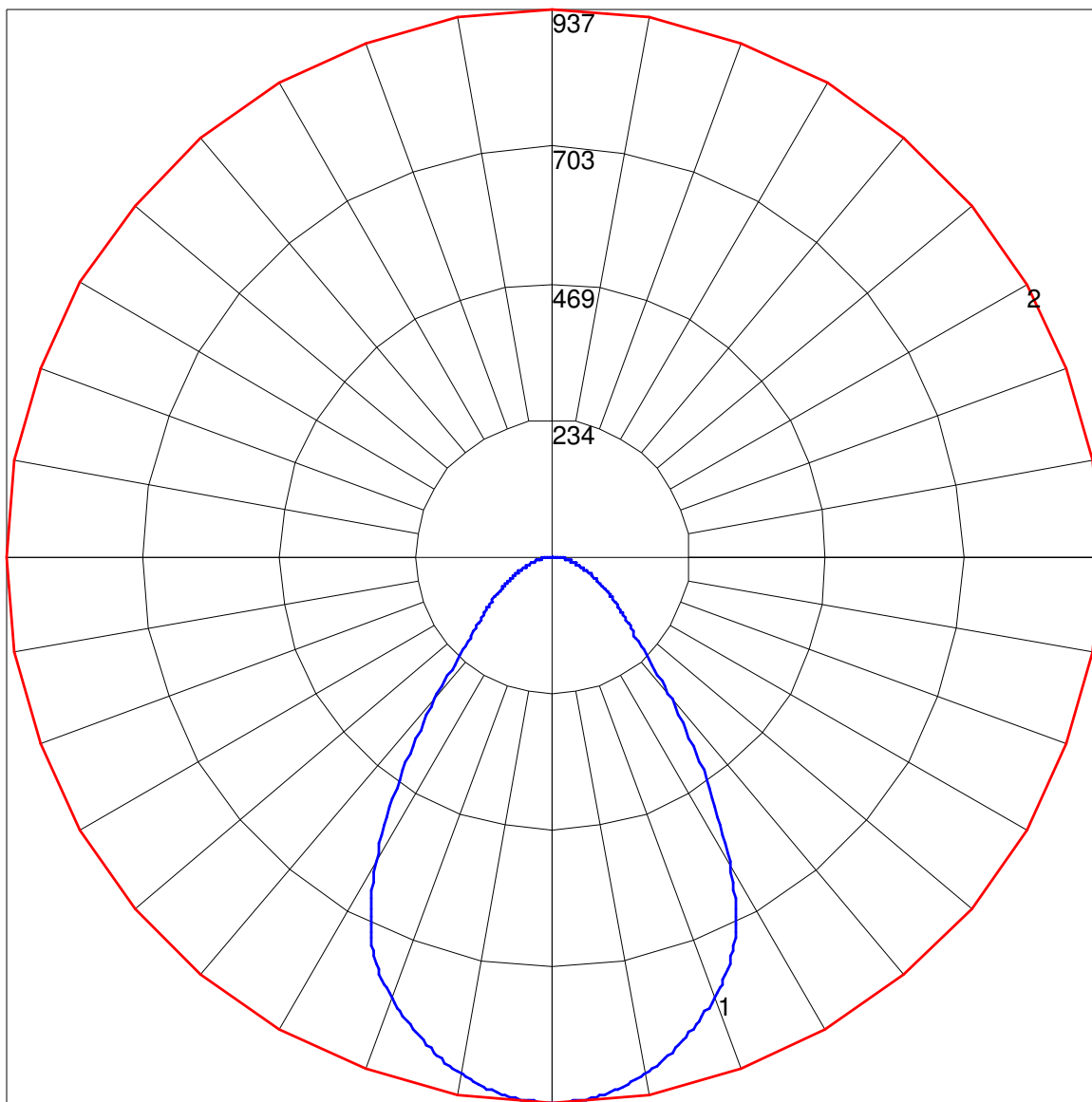
Reflectances

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	17.6	18.9	17.9	19.2	19.5	17.6	18.9	17.9	19.2	19.5
	3H	18.8	20.0	19.2	20.3	20.7	18.8	20.0	19.2	20.3	20.7
	4H	19.2	20.3	19.6	20.7	21.0	19.2	20.3	19.6	20.7	21.0
	6H	19.5	20.5	19.9	20.9	21.3	19.5	20.5	19.9	20.9	21.3
	8H	19.6	20.5	20.0	20.9	21.3	19.6	20.5	20.0	20.9	21.3
	12H	19.7	20.6	20.1	20.9	21.4	19.7	20.6	20.1	20.9	21.4
4H	2H	18.0	19.1	18.4	19.4	19.8	18.0	19.1	18.4	19.4	19.8
	3H	19.4	20.3	19.8	20.7	21.1	19.4	20.3	19.8	20.7	21.1
	4H	19.9	20.7	20.4	21.1	21.6	19.9	20.7	20.4	21.1	21.6
	6H	20.3	21.0	20.8	21.5	21.9	20.3	21.0	20.8	21.5	21.9
	8H	20.5	21.1	20.9	21.5	22.0	20.5	21.1	20.9	21.5	22.0
	12H	20.5	21.1	21.0	21.6	22.1	20.5	21.1	21.0	21.6	22.1
8H	4H	20.1	20.7	20.6	21.2	21.7	20.1	20.7	20.6	21.2	21.7
	6H	20.6	21.1	21.1	21.6	22.1	20.6	21.1	21.1	21.6	22.1
	8H	20.8	21.2	21.3	21.8	22.2	20.8	21.2	21.3	21.8	22.2
	12H	20.9	21.3	21.4	21.8	22.4	20.9	21.3	21.4	21.8	22.4
12H	4H	20.1	20.7	20.6	21.1	21.6	20.1	20.7	20.6	21.1	21.6
	6H	20.6	21.1	21.1	21.6	22.1	20.6	21.1	21.1	21.6	22.1
	8H	20.8	21.2	21.3	21.7	22.3	20.8	21.2	21.3	21.7	22.3

Maximum UGR = 22.4

POLAR GRAPH



Maximum Candela = 937.311 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.)