

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 6LDR-L15-835-CS-DIM-UNV\_.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] GEN FROM 4792018053.03  
[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-CS-DIM-UNV  
[LUMINAIRE] 6" recessed downlight with clear semi-specular finish refl  
[MORE] ector 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	1552
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	13.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.86
Spacing Criterion (90-270)	0.86
Spacing Criterion (Diagonal)	0.90
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	15528	15528	15528
55	1701	1701	1701
65	188	188	188
75	69	69	69
85	59	59	59

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CANDELA TABULATION

	<u>0</u>
0.0	1712.778
0.5	1712.778
1.0	1712.778
1.5	1713.716
2.0	1714.653
2.5	1715.591
3.0	1716.528
3.5	1716.997
4.0	1716.059
4.5	1714.184
5.0	1710.434
5.5	1705.278
6.0	1697.778
6.5	1689.341
7.0	1679.029
7.5	1667.779
8.0	1652.779
8.5	1638.248
9.0	1621.374
9.5	1602.155
10.0	1582.937
10.5	1561.844
11.0	1539.344
11.5	1514.970
12.0	1492.470
12.5	1468.096
13.0	1442.315
13.5	1421.690
14.0	1397.785
14.5	1374.816
15.0	1354.192
15.5	1334.973
16.0	1313.411
16.5	1297.474
17.0	1280.131
17.5	1262.787
18.0	1247.319
18.5	1230.444
19.0	1215.444
19.5	1200.913
20.0	1186.382
20.5	1171.852
21.0	1157.321
21.5	1142.790
22.0	1128.259
22.5	1112.321
23.0	1097.322
23.5	1081.385
24.0	1064.979
24.5	1048.104
25.0	1030.292
25.5	1011.542
26.0	992.324
26.5	971.699

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**CANDELA TABULATION - (Cont.)**

27.0	950.606
27.5	929.044
28.0	906.076
28.5	883.107
29.0	859.202
29.5	835.765
30.0	810.921
30.5	786.547
31.0	761.703
31.5	737.329
32.0	712.486
32.5	687.642
33.0	663.268
33.5	639.362
34.0	614.988
34.5	591.551
35.0	570.457
35.5	547.958
36.0	525.458
36.5	503.427
37.0	481.397
37.5	459.694
38.0	438.507
38.5	417.695
39.0	397.351
39.5	377.477
40.0	358.071
40.5	339.368
41.0	321.087
41.5	303.556
42.0	286.635
42.5	270.463
43.0	254.995
43.5	240.323
44.0	226.261
44.5	213.043
45.0	200.480
45.5	188.527
46.0	177.184
46.5	166.356
47.0	155.997
47.5	146.060
48.0	136.497
48.5	127.216
49.0	118.076
49.5	109.123
50.0	100.264
50.5	91.451
51.0	82.686
51.5	73.827
52.0	65.014
52.5	56.061
53.0	47.202
53.5	38.671
54.0	30.749
54.5	23.765

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CANDELA TABULATION - (Cont.)

55.0	17.812
55.5	13.218
56.0	9.984
56.5	7.828
57.0	6.469
57.5	5.531
58.0	4.828
58.5	4.312
59.0	3.891
59.5	3.516
60.0	3.187
60.5	2.953
61.0	2.672
61.5	2.484
62.0	2.297
62.5	2.109
63.0	1.922
63.5	1.781
64.0	1.687
64.5	1.547
65.0	1.453
65.5	1.312
66.0	1.266
66.5	1.172
67.0	1.078
67.5	0.984
68.0	0.937
68.5	0.844
69.0	0.797
69.5	0.750
70.0	0.703
70.5	0.656
71.0	0.609
71.5	0.562
72.0	0.516
72.5	0.469
73.0	0.422
73.5	0.422
74.0	0.375
74.5	0.375
75.0	0.328
75.5	0.328
76.0	0.281
76.5	0.281
77.0	0.234
77.5	0.234
78.0	0.234
78.5	0.187
79.0	0.187
79.5	0.187
80.0	0.141
80.5	0.141
81.0	0.141
81.5	0.141
82.0	0.141
82.5	0.094

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CANDELA TABULATION - (Cont.)

83.0	0.094
83.5	0.094
84.0	0.094
84.5	0.094
85.0	0.094
85.5	0.094
86.0	0.047
86.5	0.047
87.0	0.047
87.5	0.047
88.0	0.047
88.5	0.047
89.0	0.047
89.5	0.047
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
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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
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128.0	0.000
128.5	0.000
129.0	0.000
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130.0	0.000
130.5	0.000
131.0	0.000
131.5	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
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	540.49	N.A.	34.80
0-30	1006.63	N.A.	64.90
0-40	1361.88	N.A.	87.80
0-60	1549.79	N.A.	99.90
0-80	1551.75	N.A.	100.00
0-90	1551.84	N.A.	100.00
10-90	1392.57	N.A.	89.70
20-40	821.39	N.A.	52.90
20-50	981.57	N.A.	63.30
40-70	189.49	N.A.	12.20
60-80	1.96	N.A.	0.10
70-80	0.38	N.A.	0.00
80-90	0.09	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	1551.84	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	159.27
10-20	381.22
20-30	466.14
30-40	355.25
40-50	160.18
50-60	27.73
60-70	1.57
70-80	0.38
80-90	0.09
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	110	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86
3	102	95	90	86	100	94	89	85	91	87	84	89	85	82	86	84	81	80
4	96	88	83	78	94	87	82	78	85	81	77	83	79	76	81	78	75	74
5	91	82	76	72	89	81	76	72	80	75	71	78	74	70	76	73	70	68
6	86	77	71	66	85	76	70	66	75	70	66	73	69	65	72	68	65	63
7	82	72	66	62	80	71	66	61	70	65	61	69	64	61	68	64	60	59
8	78	68	61	57	76	67	61	57	66	61	57	65	60	57	64	60	56	55
9	74	64	58	53	73	63	57	53	62	57	53	61	56	53	60	56	53	51
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	50	48

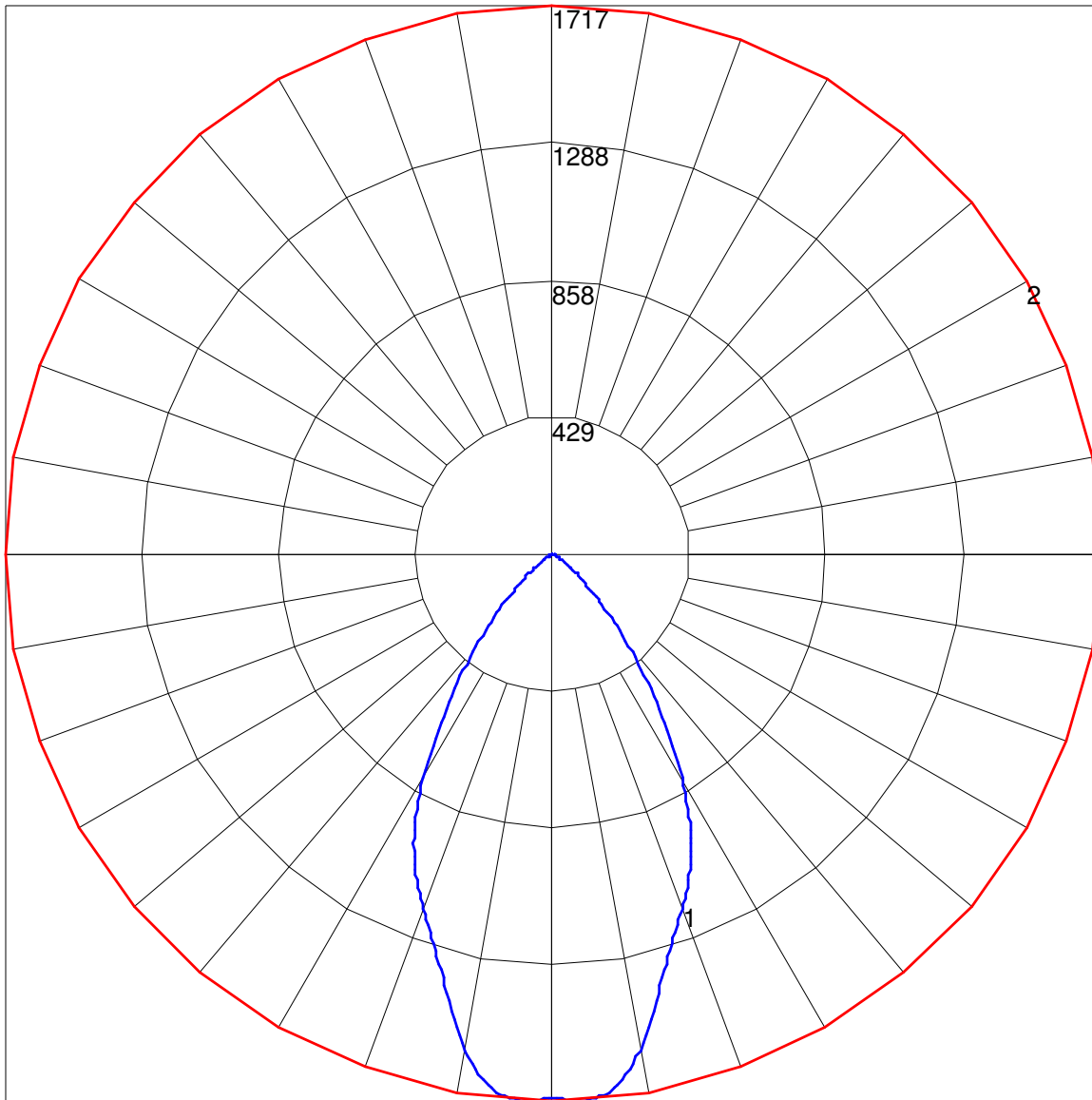
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**UGR TABLE - CORRECTED**

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	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
	3H	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
	4H	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
	6H	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
	8H	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
	12H	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
4H	2H	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
	3H	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
	4H	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
	6H	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
	8H	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
	12H	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
8H	4H	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
	6H	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
	8H	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
	12H	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
12H	4H	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
	6H	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
	8H	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6

Maximum UGR = 1.6

POLAR GRAPH



Maximum Candela = 1716.997 Located At Horizontal Angle = 0, Vertical Angle = 3.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (3.5) (Through Max. Cd.)