

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 6LDR-L15-830-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-L15-830-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	1536
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
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	15373	15373	15373
55	1684	1684	1684
65	186	186	186
75	69	69	69
85	58	58	58

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CANDELA TABULATION

	<u>0</u>
0.0	1695.650
0.5	1695.650
1.0	1695.650
1.5	1696.579
2.0	1697.507
2.5	1698.435
3.0	1699.363
3.5	1699.827
4.0	1698.899
4.5	1697.043
5.0	1693.330
5.5	1688.226
6.0	1680.801
6.5	1672.448
7.0	1662.239
7.5	1651.101
8.0	1636.252
8.5	1621.866
9.0	1605.160
9.5	1586.134
10.0	1567.108
10.5	1546.225
11.0	1523.951
11.5	1499.820
12.0	1477.545
12.5	1453.415
13.0	1427.892
13.5	1407.473
14.0	1383.807
14.5	1361.068
15.0	1340.650
15.5	1321.624
16.0	1300.277
16.5	1284.499
17.0	1267.329
17.5	1250.159
18.0	1234.846
18.5	1218.140
19.0	1203.290
19.5	1188.904
20.0	1174.519
20.5	1160.133
21.0	1145.747
21.5	1131.362
22.0	1116.976
22.5	1101.198
23.0	1086.349
23.5	1070.571
24.0	1054.329
24.5	1037.623
25.0	1019.989
25.5	1001.427
26.0	982.401
26.5	961.982

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**CANDELA TABULATION - (Cont.)**

27.0	941.100
27.5	919.753
28.0	897.015
28.5	874.276
29.0	850.610
29.5	827.407
30.0	802.812
30.5	778.681
31.0	754.086
31.5	729.956
32.0	705.361
32.5	680.766
33.0	656.635
33.5	632.969
34.0	608.838
34.5	585.635
35.0	564.753
35.5	542.478
36.0	520.204
36.5	498.393
37.0	476.583
37.5	455.097
38.0	434.122
38.5	413.518
39.0	393.378
39.5	373.702
40.0	354.490
40.5	335.975
41.0	317.876
41.5	300.521
42.0	283.769
42.5	267.759
43.0	252.445
43.5	237.920
44.0	223.998
44.5	210.912
45.0	198.476
45.5	186.642
46.0	175.412
46.5	164.692
47.0	154.437
47.5	144.599
48.0	135.132
48.5	125.944
49.0	116.895
49.5	108.032
50.0	99.261
50.5	90.537
51.0	81.859
51.5	73.088
52.0	64.364
52.5	55.501
53.0	46.730
53.5	38.284
54.0	30.442
54.5	23.527

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**CANDELA TABULATION - (Cont.)**

55.0	17.634
55.5	13.086
56.0	9.884
56.5	7.750
57.0	6.404
57.5	5.476
58.0	4.780
58.5	4.269
59.0	3.852
59.5	3.480
60.0	3.156
60.5	2.924
61.0	2.645
61.5	2.459
62.0	2.274
62.5	2.088
63.0	1.903
63.5	1.763
64.0	1.671
64.5	1.531
65.0	1.439
65.5	1.299
66.0	1.253
66.5	1.160
67.0	1.067
67.5	0.975
68.0	0.928
68.5	0.835
69.0	0.789
69.5	0.742
70.0	0.696
70.5	0.650
71.0	0.603
71.5	0.557
72.0	0.510
72.5	0.464
73.0	0.418
73.5	0.418
74.0	0.371
74.5	0.371
75.0	0.325
75.5	0.325
76.0	0.278
76.5	0.278
77.0	0.232
77.5	0.232
78.0	0.232
78.5	0.186
79.0	0.186
79.5	0.186
80.0	0.139
80.5	0.139
81.0	0.139
81.5	0.139
82.0	0.139
82.5	0.093

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CANDELA TABULATION - (Cont.)

83.0	0.093
83.5	0.093
84.0	0.093
84.5	0.093
85.0	0.093
85.5	0.093
86.0	0.046
86.5	0.046
87.0	0.046
87.5	0.046
88.0	0.046
88.5	0.046
89.0	0.046
89.5	0.046
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
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125.5	0.000
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126.5	0.000
127.0	0.000
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128.5	0.000
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130.0	0.000
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131.0	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
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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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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	535.08	N.A.	34.80
0-30	996.56	N.A.	64.90
0-40	1348.26	N.A.	87.80
0-60	1534.29	N.A.	99.90
0-80	1536.23	N.A.	100.00
0-90	1536.32	N.A.	100.00
10-90	1378.64	N.A.	89.70
20-40	813.17	N.A.	52.90
20-50	971.75	N.A.	63.30
40-70	187.59	N.A.	12.20
60-80	1.94	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	1536.32	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	157.68
10-20	377.41
20-30	461.48
30-40	351.70
40-50	158.58
50-60	27.45
60-70	1.56
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	111	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	82	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	62	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

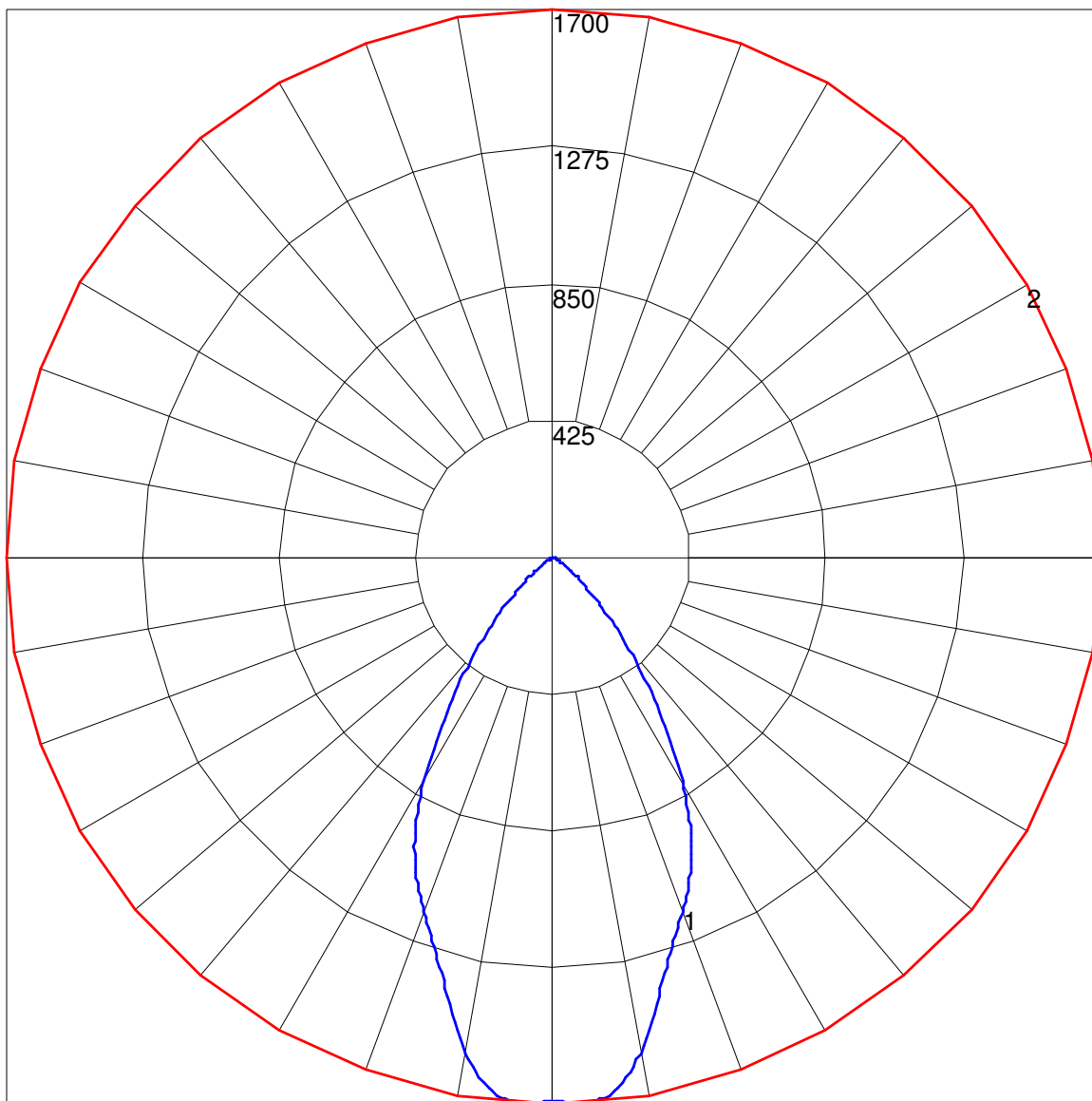
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**UGR TABLE - CORRECTED**

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	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	3H	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	4H	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	6H	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	8H	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	12H	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
4H	2H	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	3H	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	4H	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	6H	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	8H	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	12H	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
8H	4H	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	6H	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	8H	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	12H	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
12H	4H	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	6H	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	8H	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5

Maximum UGR = 1.5

POLAR GRAPH



Maximum Candela = 1699.827 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.)