

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 6LDR-L30-840-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-L30-840-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	3138
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	26
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	31401	31401	31401
55	3439	3439	3439
65	381	381	381
75	141	141	141
85	119	119	119

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CANDELA TABULATION

	<u>0</u>
0.0	3463.531
0.5	3463.531
1.0	3463.531
1.5	3465.427
2.0	3467.322
2.5	3469.218
3.0	3471.114
3.5	3472.062
4.0	3470.166
4.5	3466.374
5.0	3458.791
5.5	3448.365
6.0	3433.199
6.5	3416.137
7.0	3395.284
7.5	3372.535
8.0	3342.203
8.5	3312.819
9.0	3278.695
9.5	3239.833
10.0	3200.970
10.5	3158.315
11.0	3112.817
11.5	3063.528
12.0	3018.030
12.5	2968.741
13.0	2916.608
13.5	2874.901
14.0	2826.560
14.5	2780.114
15.0	2738.407
15.5	2699.545
16.0	2655.942
16.5	2623.715
17.0	2588.643
17.5	2553.572
18.0	2522.292
18.5	2488.169
19.0	2457.837
19.5	2428.453
20.0	2399.069
20.5	2369.684
21.0	2340.300
21.5	2310.916
22.0	2281.532
22.5	2249.304
23.0	2218.972
23.5	2186.745
24.0	2153.569
24.5	2119.446
25.0	2083.427
25.5	2045.512
26.0	2006.649
26.5	1964.942

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**CANDELA TABULATION - (Cont.)**

27.0	1922.288
27.5	1878.686
28.0	1832.240
28.5	1785.794
29.0	1737.453
29.5	1690.059
30.0	1639.822
30.5	1590.532
31.0	1540.295
31.5	1491.005
32.0	1440.768
32.5	1390.531
33.0	1341.241
33.5	1292.900
34.0	1243.610
34.5	1196.217
35.0	1153.562
35.5	1108.064
36.0	1062.566
36.5	1018.016
37.0	973.466
37.5	929.580
38.0	886.736
38.5	844.650
39.0	803.513
39.5	763.323
40.0	724.081
40.5	686.261
41.0	649.294
41.5	613.843
42.0	579.625
42.5	546.923
43.0	515.643
43.5	485.975
44.0	457.539
44.5	430.809
45.0	405.406
45.5	381.235
46.0	358.296
46.5	336.400
47.0	315.452
47.5	295.357
48.0	276.021
48.5	257.253
49.0	238.769
49.5	220.665
50.0	202.750
50.5	184.930
51.0	167.205
51.5	149.290
52.0	131.470
52.5	113.366
53.0	95.451
53.5	78.200
54.0	62.181
54.5	48.057

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**CANDELA TABULATION - (Cont.)**

55.0	36.019
55.5	26.730
56.0	20.190
56.5	15.829
57.0	13.081
57.5	11.185
58.0	9.763
58.5	8.720
59.0	7.867
59.5	7.109
60.0	6.446
60.5	5.972
61.0	5.403
61.5	5.024
62.0	4.645
62.5	4.265
63.0	3.886
63.5	3.602
64.0	3.412
64.5	3.128
65.0	2.938
65.5	2.654
66.0	2.559
66.5	2.370
67.0	2.180
67.5	1.991
68.0	1.896
68.5	1.706
69.0	1.611
69.5	1.517
70.0	1.422
70.5	1.327
71.0	1.232
71.5	1.137
72.0	1.043
72.5	0.948
73.0	0.853
73.5	0.853
74.0	0.758
74.5	0.758
75.0	0.664
75.5	0.664
76.0	0.569
76.5	0.569
77.0	0.474
77.5	0.474
78.0	0.474
78.5	0.379
79.0	0.379
79.5	0.379
80.0	0.284
80.5	0.284
81.0	0.284
81.5	0.284
82.0	0.284
82.5	0.190

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CANDELA TABULATION - (Cont.)

83.0	0.190
83.5	0.190
84.0	0.190
84.5	0.190
85.0	0.190
85.5	0.190
86.0	0.095
86.5	0.095
87.0	0.095
87.5	0.095
88.0	0.095
88.5	0.095
89.0	0.095
89.5	0.095
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
132.5	0.000
133.0	0.000
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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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	1092.96	N.A.	34.80
0-30	2035.57	N.A.	64.90
0-40	2753.95	N.A.	87.80
0-60	3133.94	N.A.	99.90
0-80	3137.9	N.A.	100.00
0-90	3138.08	N.A.	100.00
10-90	2816.01	N.A.	89.70
20-40	1660.99	N.A.	52.90
20-50	1984.9	N.A.	63.30
40-70	383.17	N.A.	12.20
60-80	3.96	N.A.	0.10
70-80	0.78	N.A.	0.00
80-90	0.18	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	3138.08	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	322.07
10-20	770.89
20-30	942.61
30-40	718.37
40-50	323.92
50-60	56.08
60-70	3.18
70-80	0.78
80-90	0.18
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	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	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

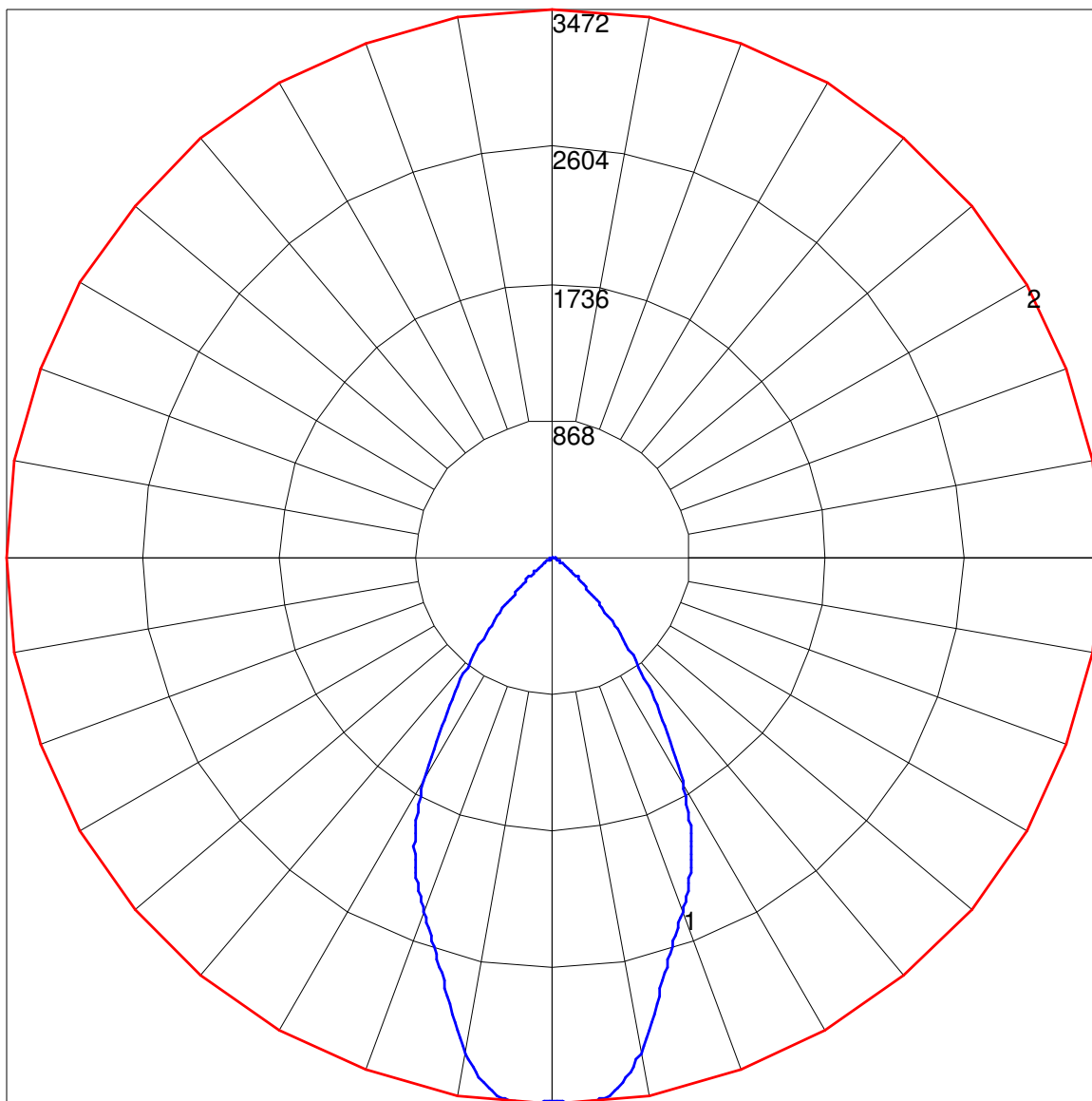
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**UGR TABLE - CORRECTED**

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	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
	3H	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
	4H	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
	6H	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
	8H	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
	12H	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
4H	2H	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
	3H	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
	4H	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
	6H	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
	8H	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
	12H	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
8H	4H	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
	6H	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
	8H	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
	12H	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
12H	4H	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
	6H	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
	8H	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0

Maximum UGR = 4.0

POLAR GRAPH



Maximum Candela = 3472.062 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.)