

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6LDR-L10-840-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-L10-840-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	904
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	9.3
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	10904	10904	10904
55	8031	8031	8031
65	6035	6035	6035
75	4574	4574	4574
85	3336	3336	3336

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CANDELA TABULATION

	<u>0</u>
0.0	637.329
0.5	637.329
1.0	637.011
1.5	636.694
2.0	636.058
2.5	636.058
3.0	635.104
3.5	634.469
4.0	633.197
4.5	632.243
5.0	631.290
5.5	630.018
6.0	628.429
6.5	627.157
7.0	625.568
7.5	623.661
8.0	621.754
8.5	619.846
9.0	617.939
9.5	615.714
10.0	613.489
10.5	610.946
11.0	608.403
11.5	605.860
12.0	603.317
12.5	600.456
13.0	597.596
13.5	594.417
14.0	591.556
14.5	588.059
15.0	585.199
15.5	581.702
16.0	578.206
16.5	575.027
17.0	571.212
17.5	567.716
18.0	563.901
18.5	560.087
19.0	556.272
19.5	552.458
20.0	548.008
20.5	544.193
21.0	540.061
21.5	535.929
22.0	531.479
22.5	527.028
23.0	522.260
23.5	517.174
24.0	511.771
24.5	506.049
25.0	500.009
25.5	493.652
26.0	486.341
26.5	478.712

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**CANDELA TABULATION - (Cont.)**

27.0	470.448
27.5	461.865
28.0	452.647
28.5	443.111
29.0	433.257
29.5	422.767
30.0	412.277
30.5	402.423
31.0	391.616
31.5	381.126
32.0	370.319
32.5	359.193
33.0	348.068
33.5	337.260
34.0	326.452
34.5	315.645
35.0	305.028
35.5	294.602
36.0	284.398
36.5	274.258
37.0	264.372
37.5	254.582
38.0	245.014
38.5	235.605
39.0	226.355
39.5	217.391
40.0	208.650
40.5	200.163
41.0	192.025
41.5	184.237
42.0	176.799
42.5	169.774
43.0	163.131
43.5	156.901
44.0	151.115
44.5	145.743
45.0	140.785
45.5	136.176
46.0	131.980
46.5	128.038
47.0	124.446
47.5	121.140
48.0	117.993
48.5	115.101
49.0	112.303
49.5	109.633
50.0	107.090
50.5	104.579
51.0	102.132
51.5	99.716
52.0	97.364
52.5	95.107
53.0	92.850
53.5	90.657
54.0	88.463
54.5	86.270

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**CANDELA TABULATION - (Cont.)**

55.0	84.108
55.5	81.947
56.0	79.754
56.5	77.656
57.0	75.558
57.5	73.492
58.0	71.457
58.5	69.455
59.0	67.484
59.5	65.577
60.0	63.669
60.5	61.826
61.0	59.982
61.5	58.202
62.0	56.454
62.5	54.705
63.0	53.021
63.5	51.368
64.0	49.715
64.5	48.126
65.0	46.568
65.5	45.074
66.0	43.580
66.5	42.118
67.0	40.687
67.5	39.289
68.0	37.922
68.5	36.619
69.0	35.284
69.5	34.012
70.0	32.772
70.5	31.533
71.0	30.357
71.5	29.149
72.0	28.004
72.5	26.892
73.0	25.779
73.5	24.730
74.0	23.681
74.5	22.632
75.0	21.615
75.5	20.630
76.0	19.676
76.5	18.723
77.0	17.801
77.5	16.879
78.0	15.989
78.5	15.099
79.0	14.241
79.5	13.414
80.0	12.588
80.5	11.793
81.0	10.998
81.5	10.235
82.0	9.473
82.5	8.741

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CANDELA TABULATION - (Cont.)

83.0	8.010
83.5	7.311
84.0	6.612
84.5	5.944
85.0	5.308
85.5	4.673
86.0	4.037
86.5	3.433
87.0	2.829
87.5	2.257
88.0	1.685
88.5	1.144
89.0	0.668
89.5	0.350
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
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118.5	0.000
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125.5	0.000
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126.5	0.000
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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
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157.0	0.000
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159.0	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	224.13	N.A.	24.80
0-30	450.38	N.A.	49.80
0-40	640.68	N.A.	70.80
0-60	828.59	N.A.	91.60
0-80	898.33	N.A.	99.30
0-90	904.42	N.A.	100.00
10-90	844.73	N.A.	93.40
20-40	416.55	N.A.	46.10
20-50	529.09	N.A.	58.50
40-70	234.49	N.A.	25.90
60-80	69.75	N.A.	7.70
70-80	23.16	N.A.	2.60
80-90	6.08	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	904.42	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	59.69
10-20	164.44
20-30	226.25
30-40	190.29
40-50	112.54
50-60	75.37
60-70	46.58
70-80	23.16
80-90	6.08
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	112	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	67	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	69	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	40	38

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**UGR TABLE - CORRECTED**

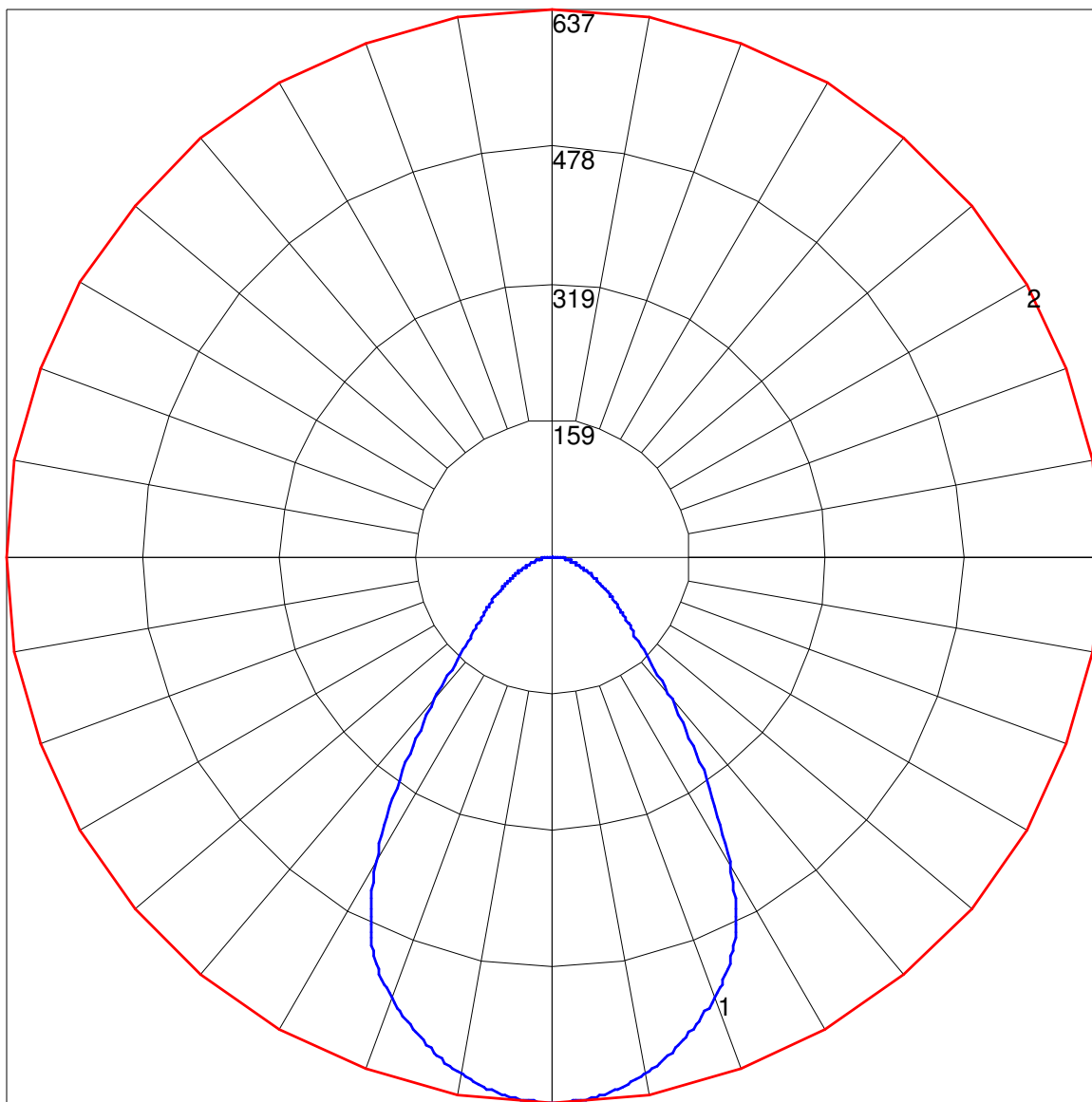
Reflectances

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	16.3	17.6	16.6	17.9	18.2	16.3	17.6	16.6	17.9	18.2
	3H	17.5	18.7	17.9	19.0	19.4	17.5	18.7	17.9	19.0	19.4
	4H	17.9	19.0	18.3	19.4	19.7	17.9	19.0	18.3	19.4	19.7
	6H	18.2	19.2	18.6	19.6	20.0	18.2	19.2	18.6	19.6	20.0
	8H	18.3	19.2	18.7	19.6	20.0	18.3	19.2	18.7	19.6	20.0
	12H	18.3	19.2	18.8	19.6	20.1	18.3	19.2	18.8	19.6	20.1
4H	2H	16.7	17.8	17.1	18.1	18.5	16.7	17.8	17.1	18.1	18.5
	3H	18.1	19.0	18.5	19.4	19.8	18.1	19.0	18.5	19.4	19.8
	4H	18.6	19.4	19.0	19.8	20.3	18.6	19.4	19.0	19.8	20.3
	6H	19.0	19.7	19.5	20.2	20.6	19.0	19.7	19.5	20.2	20.6
	8H	19.2	19.8	19.6	20.2	20.7	19.2	19.8	19.6	20.2	20.7
	12H	19.2	19.8	19.7	20.3	20.8	19.2	19.8	19.7	20.3	20.8
8H	4H	18.8	19.4	19.3	19.9	20.4	18.8	19.4	19.3	19.9	20.4
	6H	19.3	19.8	19.8	20.3	20.8	19.3	19.8	19.8	20.3	20.8
	8H	19.5	19.9	20.0	20.5	20.9	19.5	19.9	20.0	20.5	20.9
	12H	19.6	20.0	20.1	20.5	21.1	19.6	20.0	20.1	20.5	21.1
12H	4H	18.8	19.4	19.3	19.8	20.3	18.8	19.4	19.3	19.8	20.3
	6H	19.3	19.8	19.8	20.3	20.8	19.3	19.8	19.8	20.3	20.8
	8H	19.5	19.9	20.0	20.4	21.0	19.5	19.9	20.0	20.4	21.0

Maximum UGR = 21.1

POLAR GRAPH



Maximum Candela = 637.329 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.)