

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6LDR-L10-830-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-L10-830-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	869
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
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	10481	10481	10481
55	7719	7719	7719
65	5801	5801	5801
75	4396	4396	4396
85	3206	3206	3206

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CANDELA TABULATION

	<u>0</u>
0.0	612.579
0.5	612.579
1.0	612.273
1.5	611.968
2.0	611.357
2.5	611.357
3.0	610.440
3.5	609.829
4.0	608.607
4.5	607.690
5.0	606.774
5.5	605.552
6.0	604.024
6.5	602.802
7.0	601.274
7.5	599.441
8.0	597.608
8.5	595.775
9.0	593.942
9.5	591.803
10.0	589.664
10.5	587.220
11.0	584.776
11.5	582.332
12.0	579.887
12.5	577.138
13.0	574.388
13.5	571.333
14.0	568.583
14.5	565.222
15.0	562.472
15.5	559.112
16.0	555.751
16.5	552.696
17.0	549.029
17.5	545.669
18.0	542.002
18.5	538.336
19.0	534.670
19.5	531.003
20.0	526.726
20.5	523.060
21.0	519.088
21.5	515.116
22.0	510.839
22.5	506.561
23.0	501.978
23.5	497.090
24.0	491.896
24.5	486.397
25.0	480.592
25.5	474.481
26.0	467.454
26.5	460.121

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**CANDELA TABULATION - (Cont.)**

27.0	452.178
27.5	443.929
28.0	435.068
28.5	425.903
29.0	416.431
29.5	406.349
30.0	396.267
30.5	386.795
31.0	376.407
31.5	366.325
32.0	355.937
32.5	345.244
33.0	334.550
33.5	324.163
34.0	313.775
34.5	303.387
35.0	293.182
35.5	283.161
36.0	273.354
36.5	263.607
37.0	254.106
37.5	244.695
38.0	235.499
38.5	226.456
39.0	217.565
39.5	208.949
40.0	200.547
40.5	192.389
41.0	184.568
41.5	177.083
42.0	169.933
42.5	163.181
43.0	156.796
43.5	150.807
44.0	145.247
44.5	140.083
45.0	135.317
45.5	130.887
46.0	126.854
46.5	123.066
47.0	119.613
47.5	116.436
48.0	113.411
48.5	110.631
49.0	107.942
49.5	105.376
50.0	102.932
50.5	100.518
51.0	98.165
51.5	95.843
52.0	93.582
52.5	91.413
53.0	89.244
53.5	87.136
54.0	85.028
54.5	82.920

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CANDELA TABULATION - (Cont.)

55.0	80.842
55.5	78.764
56.0	76.656
56.5	74.640
57.0	72.623
57.5	70.637
58.0	68.682
58.5	66.757
59.0	64.863
59.5	63.030
60.0	61.197
60.5	59.425
61.0	57.653
61.5	55.942
62.0	54.261
62.5	52.581
63.0	50.962
63.5	49.373
64.0	47.784
64.5	46.257
65.0	44.759
65.5	43.324
66.0	41.888
66.5	40.482
67.0	39.107
67.5	37.763
68.0	36.449
68.5	35.197
69.0	33.913
69.5	32.691
70.0	31.500
70.5	30.308
71.0	29.178
71.5	28.017
72.0	26.917
72.5	25.847
73.0	24.778
73.5	23.770
74.0	22.762
74.5	21.753
75.0	20.776
75.5	19.829
76.0	18.912
76.5	17.995
77.0	17.109
77.5	16.223
78.0	15.368
78.5	14.512
79.0	13.688
79.5	12.893
80.0	12.099
80.5	11.335
81.0	10.571
81.5	9.838
82.0	9.105
82.5	8.402

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CANDELA TABULATION - (Cont.)

83.0	7.699
83.5	7.027
84.0	6.355
84.5	5.713
85.0	5.102
85.5	4.491
86.0	3.880
86.5	3.300
87.0	2.719
87.5	2.169
88.0	1.619
88.5	1.100
89.0	0.642
89.5	0.336
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
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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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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
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146.5	0.000
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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	215.43	N.A.	24.80
0-30	432.89	N.A.	49.80
0-40	615.79	N.A.	70.80
0-60	796.41	N.A.	91.60
0-80	863.45	N.A.	99.30
0-90	869.29	N.A.	100.00
10-90	811.92	N.A.	93.40
20-40	400.37	N.A.	46.10
20-50	508.54	N.A.	58.50
40-70	225.39	N.A.	25.90
60-80	67.04	N.A.	7.70
70-80	22.27	N.A.	2.60
80-90	5.84	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	869.29	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	57.37
10-20	158.06
20-30	217.47
30-40	182.90
40-50	108.17
50-60	72.44
60-70	44.77
70-80	22.27
80-90	5.84
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	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	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**

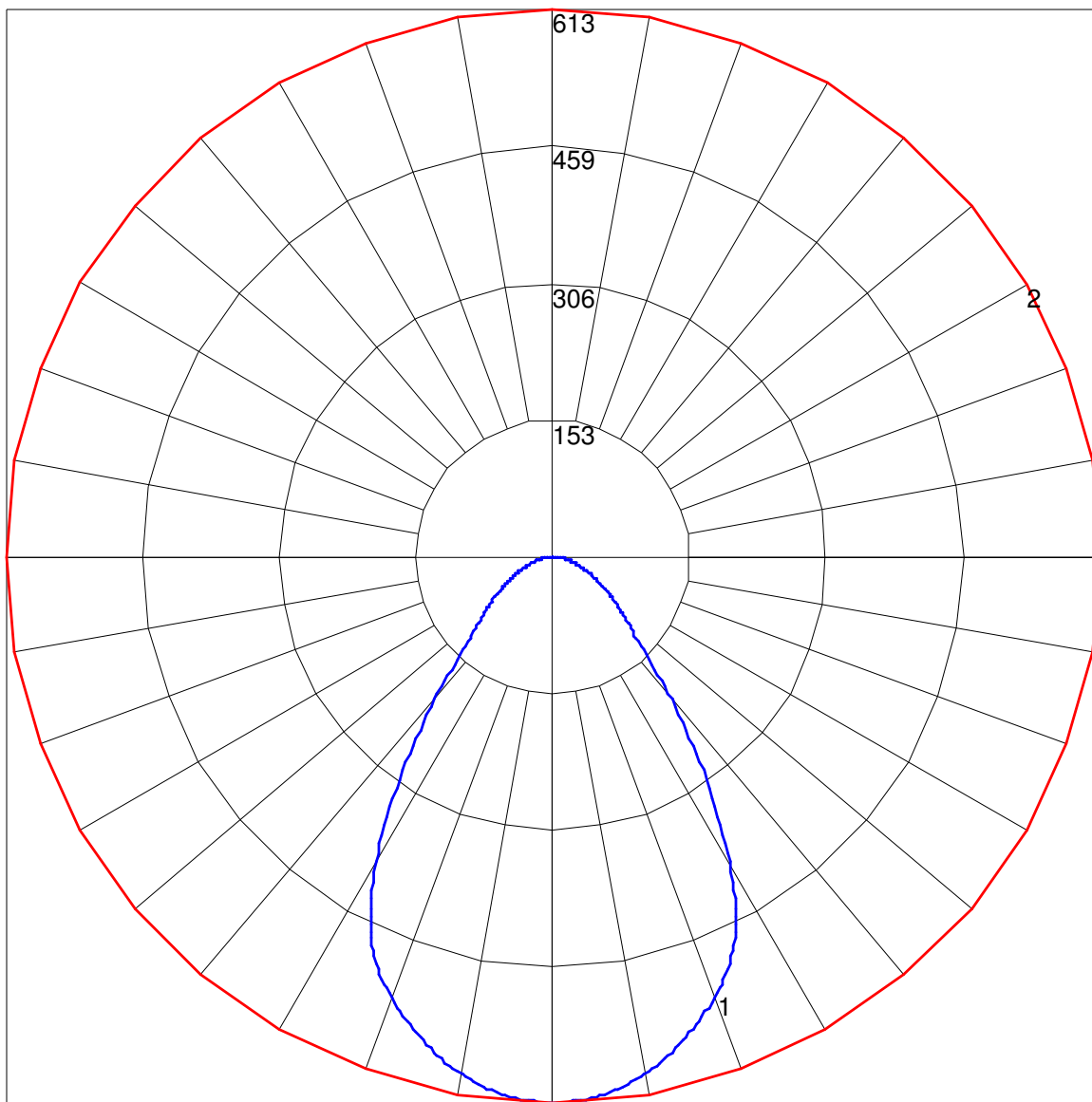
Reflectances

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	16.1	17.4	16.4	17.7	18.0	16.1	17.4	16.4	17.7	18.0
	3H	17.3	18.5	17.7	18.8	19.2	17.3	18.5	17.7	18.8	19.2
	4H	17.7	18.8	18.1	19.2	19.5	17.7	18.8	18.1	19.2	19.5
	6H	18.0	19.0	18.4	19.4	19.8	18.0	19.0	18.4	19.4	19.8
	8H	18.1	19.0	18.5	19.4	19.8	18.1	19.0	18.5	19.4	19.8
	12H	18.1	19.0	18.6	19.4	19.9	18.1	19.0	18.6	19.4	19.9
4H	2H	16.5	17.6	16.9	17.9	18.3	16.5	17.6	16.9	17.9	18.3
	3H	17.9	18.8	18.3	19.2	19.6	17.9	18.8	18.3	19.2	19.6
	4H	18.4	19.2	18.8	19.6	20.1	18.4	19.2	18.8	19.6	20.1
	6H	18.8	19.5	19.3	20.0	20.4	18.8	19.5	19.3	20.0	20.4
	8H	19.0	19.6	19.4	20.0	20.5	19.0	19.6	19.4	20.0	20.5
	12H	19.0	19.6	19.5	20.1	20.6	19.0	19.6	19.5	20.1	20.6
8H	4H	18.6	19.2	19.1	19.7	20.1	18.6	19.2	19.1	19.7	20.1
	6H	19.1	19.6	19.6	20.1	20.6	19.1	19.6	19.6	20.1	20.6
	8H	19.3	19.7	19.8	20.3	20.7	19.3	19.7	19.8	20.3	20.7
	12H	19.4	19.8	19.9	20.3	20.9	19.4	19.8	19.9	20.3	20.9
12H	4H	18.6	19.2	19.1	19.6	20.1	18.6	19.2	19.1	19.6	20.1
	6H	19.1	19.6	19.6	20.0	20.6	19.1	19.6	19.6	20.0	20.6
	8H	19.3	19.7	19.8	20.2	20.8	19.3	19.7	19.8	20.2	20.8

Maximum UGR = 20.9

POLAR GRAPH



Maximum Candela = 612.579 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.)