

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6LDR-L15-830-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-L15-830-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	1317
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
Total Luminaire Watts	13.8
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	15877	15877	15877
55	11693	11693	11693
65	8787	8787	8787
75	6660	6660	6660
85	4857	4857	4857

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CANDELA TABULATION

	<u>0</u>
0.0	927.938
0.5	927.938
1.0	927.475
1.5	927.012
2.0	926.087
2.5	926.087
3.0	924.698
3.5	923.773
4.0	921.921
4.5	920.533
5.0	919.144
5.5	917.293
6.0	914.979
6.5	913.128
7.0	910.814
7.5	908.037
8.0	905.260
8.5	902.483
9.0	899.706
9.5	896.467
10.0	893.227
10.5	889.524
11.0	885.822
11.5	882.119
12.0	878.417
12.5	874.252
13.0	870.086
13.5	865.458
14.0	861.293
14.5	856.202
15.0	852.037
15.5	846.946
16.0	841.855
16.5	837.227
17.0	831.673
17.5	826.582
18.0	821.028
18.5	815.475
19.0	809.921
19.5	804.367
20.0	797.888
20.5	792.334
21.0	786.317
21.5	780.301
22.0	773.821
22.5	767.342
23.0	760.400
23.5	752.995
24.0	745.127
24.5	736.797
25.0	728.003
25.5	718.747
26.0	708.102
26.5	696.995

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**CANDELA TABULATION - (Cont.)**

27.0	684.962
27.5	672.466
28.0	659.044
28.5	645.160
29.0	630.813
29.5	615.540
30.0	600.267
30.5	585.920
31.0	570.184
31.5	554.911
32.0	539.176
32.5	522.977
33.0	506.779
33.5	491.043
34.0	475.308
34.5	459.572
35.0	444.114
35.5	428.934
36.0	414.078
36.5	399.314
37.0	384.921
37.5	370.666
38.0	356.735
38.5	343.036
39.0	329.568
39.5	316.517
40.0	303.790
40.5	291.433
41.0	279.585
41.5	268.246
42.0	257.416
42.5	247.188
43.0	237.515
43.5	228.444
44.0	220.021
44.5	212.199
45.0	204.979
45.5	198.269
46.0	192.159
46.5	186.421
47.0	181.191
47.5	176.378
48.0	171.796
48.5	167.584
49.0	163.511
49.5	159.624
50.0	155.921
50.5	152.265
51.0	148.701
51.5	145.184
52.0	141.759
52.5	138.473
53.0	135.187
53.5	131.994
54.0	128.801
54.5	125.607

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**CANDELA TABULATION - (Cont.)**

55.0	122.460
55.5	119.313
56.0	116.120
56.5	113.065
57.0	110.010
57.5	107.002
58.0	104.040
58.5	101.124
59.0	98.255
59.5	95.478
60.0	92.701
60.5	90.017
61.0	87.333
61.5	84.741
62.0	82.195
62.5	79.650
63.0	77.197
63.5	74.790
64.0	72.384
64.5	70.070
65.0	67.802
65.5	65.627
66.0	63.452
66.5	61.323
67.0	59.240
67.5	57.204
68.0	55.213
68.5	53.316
69.0	51.372
69.5	49.521
70.0	47.716
70.5	45.911
71.0	44.199
71.5	42.440
72.0	40.774
72.5	39.154
73.0	37.534
73.5	36.007
74.0	34.479
74.5	32.952
75.0	31.471
75.5	30.036
76.0	28.648
76.5	27.260
77.0	25.917
77.5	24.575
78.0	23.279
78.5	21.984
79.0	20.734
79.5	19.531
80.0	18.327
80.5	17.170
81.0	16.013
81.5	14.903
82.0	13.792
82.5	12.727

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CANDELA TABULATION - (Cont.)

83.0	11.663
83.5	10.645
84.0	9.626
84.5	8.655
85.0	7.729
85.5	6.803
86.0	5.878
86.5	4.998
87.0	4.119
87.5	3.286
88.0	2.453
88.5	1.666
89.0	0.972
89.5	0.509
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
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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
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146.5	0.000
147.0	0.000
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156.5	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	326.33	N.A.	24.80
0-30	655.75	N.A.	49.80
0-40	932.81	N.A.	70.80
0-60	1206.41	N.A.	91.60
0-80	1307.96	N.A.	99.30
0-90	1316.81	N.A.	100.00
10-90	1229.91	N.A.	93.40
20-40	606.48	N.A.	46.10
20-50	770.34	N.A.	58.50
40-70	341.42	N.A.	25.90
60-80	101.55	N.A.	7.70
70-80	33.73	N.A.	2.60
80-90	8.85	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	1316.81	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	86.90
10-20	239.43
20-30	329.42
30-40	277.06
40-50	163.86
50-60	109.74
60-70	67.82
70-80	33.73
80-90	8.85
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	111	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	68	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	42	41
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	39	38

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**UGR TABLE - CORRECTED**

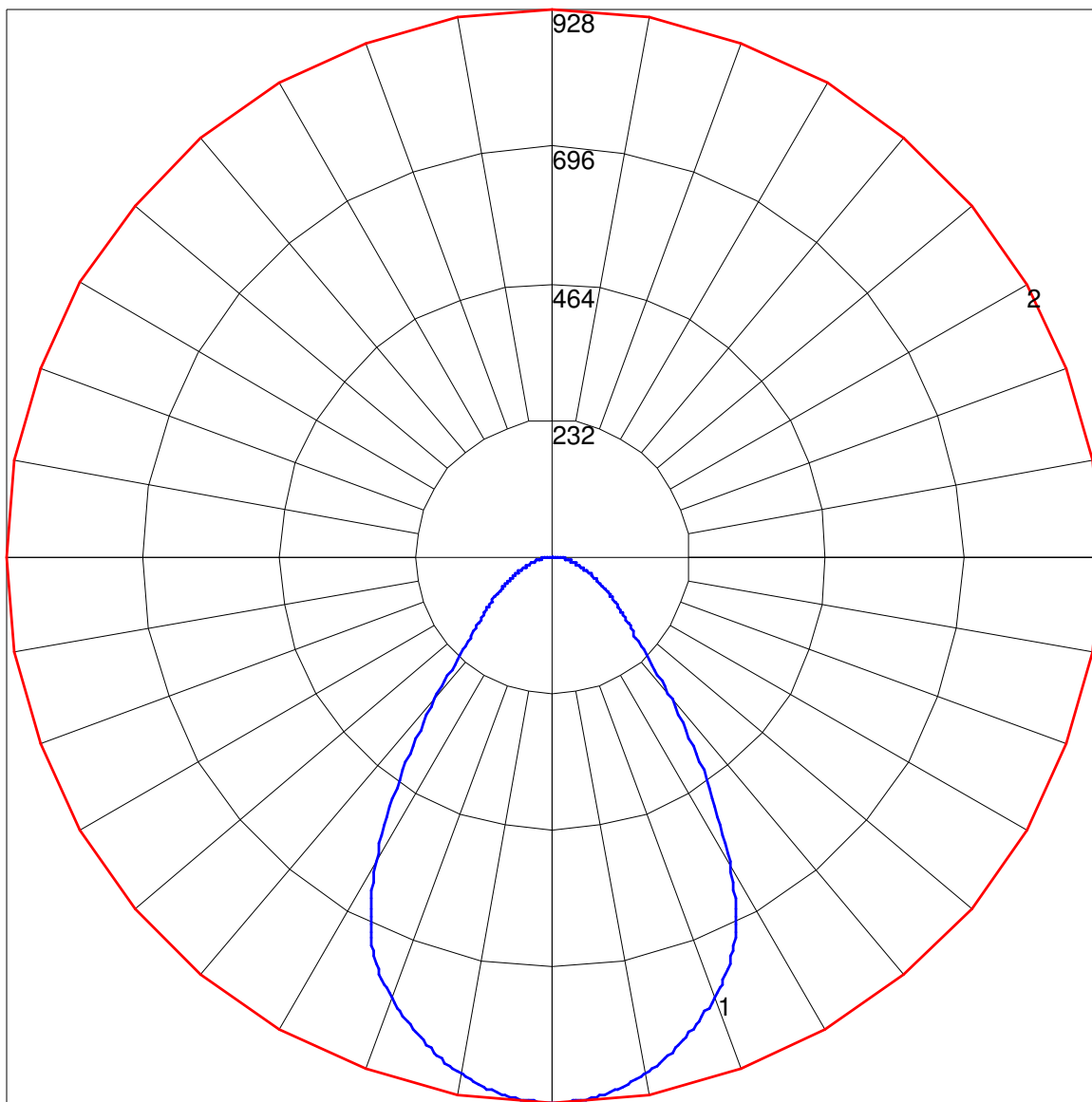
Reflectances

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	17.6	18.9	17.9	19.2	19.5	17.6	18.9	17.9	19.2	19.5
	3H	18.8	20.0	19.2	20.3	20.7	18.8	20.0	19.2	20.3	20.7
	4H	19.2	20.3	19.6	20.7	21.0	19.2	20.3	19.6	20.7	21.0
	6H	19.5	20.5	19.9	20.9	21.3	19.5	20.5	19.9	20.9	21.3
	8H	19.6	20.5	20.0	20.9	21.3	19.6	20.5	20.0	20.9	21.3
	12H	19.6	20.5	20.1	20.9	21.4	19.6	20.5	20.1	20.9	21.4
4H	2H	18.0	19.1	18.4	19.4	19.8	18.0	19.1	18.4	19.4	19.8
	3H	19.4	20.3	19.8	20.7	21.1	19.4	20.3	19.8	20.7	21.1
	4H	19.9	20.7	20.3	21.1	21.6	19.9	20.7	20.3	21.1	21.6
	6H	20.3	21.0	20.8	21.5	21.9	20.3	21.0	20.8	21.5	21.9
	8H	20.5	21.1	20.9	21.5	22.0	20.5	21.1	20.9	21.5	22.0
	12H	20.5	21.1	21.0	21.6	22.1	20.5	21.1	21.0	21.6	22.1
8H	4H	20.1	20.7	20.6	21.2	21.7	20.1	20.7	20.6	21.2	21.7
	6H	20.6	21.1	21.1	21.6	22.1	20.6	21.1	21.1	21.6	22.1
	8H	20.8	21.2	21.3	21.8	22.2	20.8	21.2	21.3	21.8	22.2
	12H	20.9	21.3	21.4	21.8	22.4	20.9	21.3	21.4	21.8	22.4
12H	4H	20.1	20.7	20.6	21.1	21.6	20.1	20.7	20.6	21.1	21.6
	6H	20.6	21.1	21.1	21.6	22.1	20.6	21.1	21.1	21.6	22.1
	8H	20.8	21.2	21.3	21.7	22.3	20.8	21.2	21.3	21.7	22.3

Maximum UGR = 22.4

POLAR GRAPH



Maximum Candela = 927.938 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.)