

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 6LDR-L30-830-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-L30-830-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	2585
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	26
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	31168	31168	31168
55	22956	22956	22956
65	17250	17250	17250
75	13074	13074	13074
85	9535	9535	9535

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CANDELA TABULATION

	<u>0</u>
0.0	1821.689
0.5	1821.689
1.0	1820.780
1.5	1819.872
2.0	1818.054
2.5	1818.054
3.0	1815.329
3.5	1813.512
4.0	1809.877
4.5	1807.152
5.0	1804.426
5.5	1800.792
6.0	1796.249
6.5	1792.614
7.0	1788.071
7.5	1782.620
8.0	1777.169
8.5	1771.717
9.0	1766.266
9.5	1759.906
10.0	1753.546
10.5	1746.277
11.0	1739.009
11.5	1731.740
12.0	1724.471
12.5	1716.294
13.0	1708.117
13.5	1699.031
14.0	1690.854
14.5	1680.860
15.0	1672.683
15.5	1662.688
16.0	1652.694
16.5	1643.608
17.0	1632.706
17.5	1622.711
18.0	1611.808
18.5	1600.905
19.0	1590.003
19.5	1579.100
20.0	1566.380
20.5	1555.477
21.0	1543.665
21.5	1531.854
22.0	1519.134
22.5	1506.414
23.0	1492.785
23.5	1478.248
24.0	1462.802
24.5	1446.448
25.0	1429.185
25.5	1411.014
26.0	1390.117
26.5	1368.311

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**CANDELA TABULATION - (Cont.)**

27.0	1344.688
27.5	1320.156
28.0	1293.808
28.5	1266.551
29.0	1238.385
29.5	1208.402
30.0	1178.419
30.5	1150.253
31.0	1119.362
31.5	1089.379
32.0	1058.487
32.5	1026.687
33.0	994.887
33.5	963.996
34.0	933.104
34.5	902.213
35.0	871.867
35.5	842.065
36.0	812.900
36.5	783.917
37.0	755.660
37.5	727.676
38.0	700.328
38.5	673.434
39.0	646.995
39.5	621.373
40.0	596.387
40.5	572.128
41.0	548.869
41.5	526.609
42.0	505.348
42.5	485.269
43.0	466.280
43.5	448.472
44.0	431.936
44.5	416.581
45.0	402.407
45.5	389.233
46.0	377.239
46.5	365.973
47.0	355.706
47.5	346.257
48.0	337.262
48.5	328.994
49.0	320.999
49.5	313.367
50.0	306.098
50.5	298.920
51.0	291.924
51.5	285.019
52.0	278.296
52.5	271.845
53.0	265.394
53.5	259.125
54.0	252.856
54.5	246.587

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CANDELA TABULATION - (Cont.)

55.0	240.408
55.5	234.230
56.0	227.961
56.5	221.964
57.0	215.968
57.5	210.062
58.0	204.247
58.5	198.523
59.0	192.890
59.5	187.439
60.0	181.987
60.5	176.717
61.0	171.448
61.5	166.360
62.0	161.363
62.5	156.365
63.0	151.550
63.5	146.825
64.0	142.101
64.5	137.558
65.0	133.106
65.5	128.836
66.0	124.565
66.5	120.386
67.0	116.297
67.5	112.300
68.0	108.393
68.5	104.668
69.0	100.852
69.5	97.217
70.0	93.674
70.5	90.130
71.0	86.769
71.5	83.316
72.0	80.045
72.5	76.865
73.0	73.685
73.5	70.687
74.0	67.689
74.5	64.690
75.0	61.783
75.5	58.966
76.0	56.241
76.5	53.515
77.0	50.880
77.5	48.245
78.0	45.701
78.5	43.157
79.0	40.704
79.5	38.342
80.0	35.979
80.5	33.708
81.0	31.437
81.5	29.256
82.0	27.075
82.5	24.986

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CANDELA TABULATION - (Cont.)

83.0	22.896
83.5	20.897
84.0	18.898
84.5	16.990
85.0	15.173
85.5	13.356
86.0	11.539
86.5	9.813
87.0	8.086
87.5	6.451
88.0	4.815
88.5	3.271
89.0	1.908
89.5	0.999
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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**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	640.63	N.A.	24.80
0-30	1287.33	N.A.	49.80
0-40	1831.25	N.A.	70.80
0-60	2368.37	N.A.	91.60
0-80	2567.72	N.A.	99.30
0-90	2585.1	N.A.	100.00
10-90	2414.51	N.A.	93.40
20-40	1190.62	N.A.	46.10
20-50	1512.3	N.A.	58.50
40-70	670.26	N.A.	25.90
60-80	199.36	N.A.	7.70
70-80	66.21	N.A.	2.60
80-90	17.38	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	2585.1	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	170.60
10-20	470.03
20-30	646.70
30-40	543.92
40-50	321.68
50-60	215.43
60-70	133.15
70-80	66.21
80-90	17.38
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	43	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

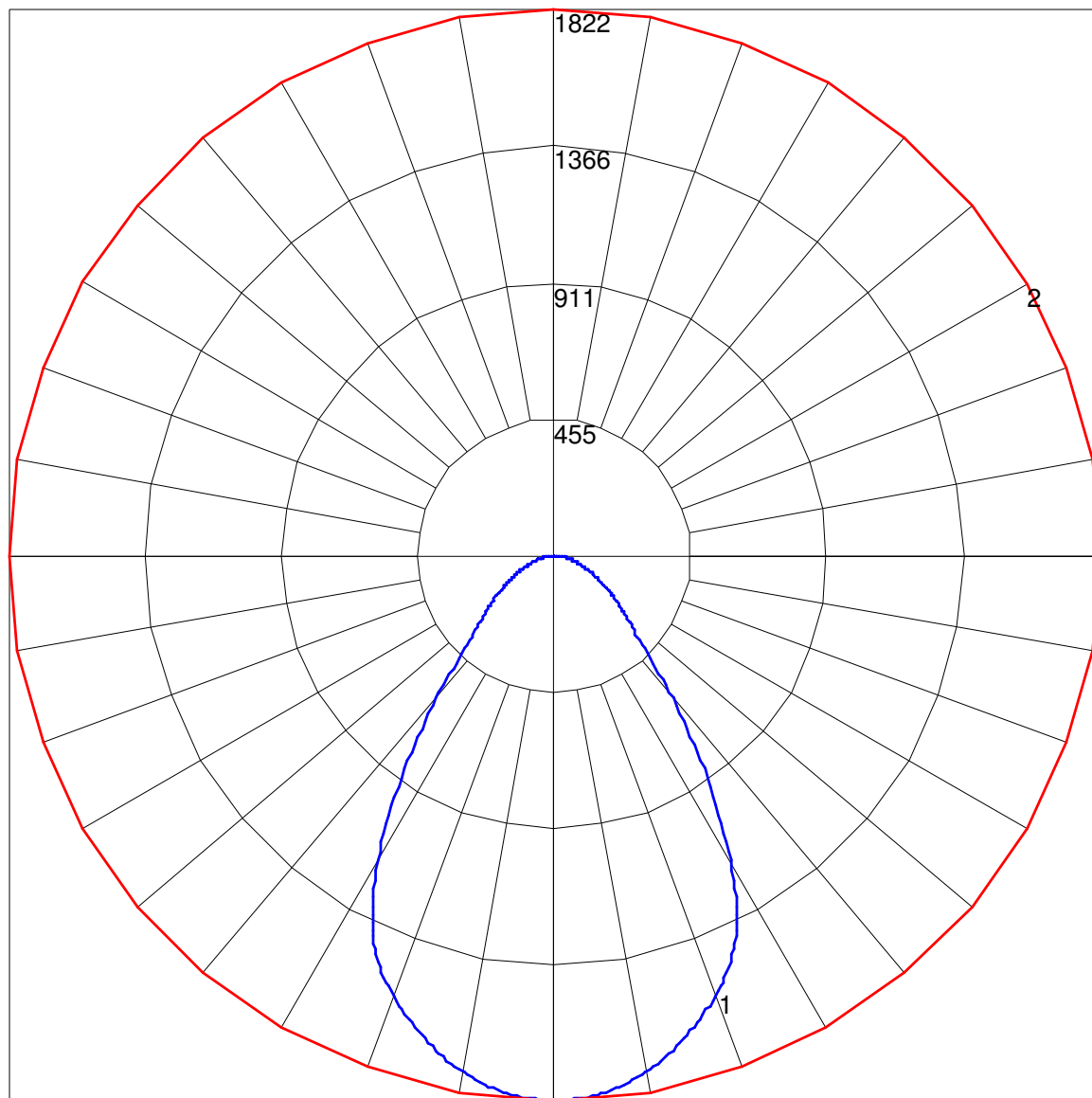
X=2H	Y=2H	19.9	21.2	20.2	21.5	21.8	19.9	21.2	20.2	21.5	21.8
	3H	21.1	22.3	21.5	22.6	23.0	21.1	22.3	21.5	22.6	23.0
	4H	21.5	22.6	21.9	23.0	23.3	21.5	22.6	21.9	23.0	23.3
	6H	21.8	22.8	22.2	23.2	23.6	21.8	22.8	22.2	23.2	23.6
	8H	21.9	22.8	22.3	23.2	23.6	21.9	22.8	22.3	23.2	23.6
	12H	22.0	22.9	22.4	23.2	23.7	22.0	22.9	22.4	23.2	23.7

UGR Viewed Endwise

4H	2H	20.3	21.4	20.7	21.7	22.1	20.3	21.4	20.7	21.7	22.1
	3H	21.7	22.6	22.1	23.0	23.4	21.7	22.6	22.1	23.0	23.4
	4H	22.2	23.0	22.6	23.4	23.9	22.2	23.0	22.6	23.4	23.9
	6H	22.6	23.3	23.1	23.8	24.2	22.6	23.3	23.1	23.8	24.2
	8H	22.8	23.4	23.2	23.8	24.3	22.8	23.4	23.2	23.8	24.3
	12H	22.8	23.4	23.3	23.9	24.4	22.8	23.4	23.3	23.9	24.4
8H	4H	22.4	23.0	22.9	23.5	24.0	22.4	23.0	22.9	23.5	24.0
	6H	22.9	23.4	23.4	23.9	24.4	22.9	23.4	23.4	23.9	24.4
	8H	23.1	23.5	23.6	24.1	24.5	23.1	23.5	23.6	24.1	24.5
	12H	23.2	23.6	23.7	24.1	24.7	23.2	23.6	23.7	24.1	24.7
12H	4H	22.4	23.0	22.9	23.4	23.9	22.4	23.0	22.9	23.4	23.9
	6H	22.9	23.4	23.4	23.9	24.4	22.9	23.4	23.4	23.9	24.4
	8H	23.1	23.5	23.6	24.0	24.6	23.1	23.5	23.6	24.0	24.6

Maximum UGR = 24.7

POLAR GRAPH



Maximum Candela = 1821.689 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.)