

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 6LDR-L30-840-BL-DIM-UNV\_.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] GEN FROM 4792018053.05  
[TESTLAB] UL, LLC  
[ISSUE DATE] 2025-12-11  
[TEST DATE] 11/11/2025  
[MANUFAC] WILLIAMS INDOOR  
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
[LUMCAT] 6LDR-L30-840-BL-DIM-UNV  
[LUMINAIRE] 4" recessed downlight with textured black 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	1152
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	44
Total Luminaire Watts	26
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.00
Spacing Criterion (90-270)	1.00
Spacing Criterion (Diagonal)	0.94
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	8124	8124	8124
55	1052	1052	1052
65	365	365	365
75	158	158	158
85	104	104	104

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CANDELA TABULATION

	<u>0</u>
0.0	1151.540
0.5	1151.540
1.0	1151.540
1.5	1150.711
2.0	1149.883
2.5	1149.055
3.0	1148.226
3.5	1145.741
4.0	1144.084
4.5	1142.427
5.0	1139.942
5.5	1138.285
6.0	1134.971
6.5	1132.486
7.0	1129.172
7.5	1125.858
8.0	1122.544
8.5	1118.402
9.0	1114.260
9.5	1110.118
10.0	1105.975
10.5	1101.005
11.0	1096.034
11.5	1091.063
12.0	1085.264
12.5	1080.294
13.0	1073.666
13.5	1068.695
14.0	1062.068
14.5	1056.269
15.0	1049.641
15.5	1043.013
16.0	1037.214
16.5	1030.587
17.0	1025.616
17.5	1018.989
18.0	1012.361
18.5	1005.733
19.0	997.449
19.5	988.336
20.0	979.223
20.5	970.110
21.0	959.340
21.5	948.571
22.0	936.144
22.5	923.717
23.0	909.634
23.5	894.722
24.0	878.153
24.5	860.755
25.0	843.358
25.5	825.132
26.0	806.078
26.5	786.444

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**CANDELA TABULATION - (Cont.)**

27.0	766.313
27.5	745.601
28.0	724.393
28.5	702.854
29.0	681.231
29.5	659.360
30.0	637.572
30.5	615.618
31.0	593.582
31.5	571.628
32.0	549.840
32.5	528.217
33.0	506.843
33.5	485.884
34.0	465.255
34.5	444.793
35.0	424.827
35.5	405.193
36.0	385.890
36.5	366.753
37.0	348.113
37.5	329.721
38.0	311.744
38.5	294.098
39.0	276.701
39.5	259.552
40.0	242.900
40.5	226.663
41.0	210.839
41.5	195.513
42.0	180.684
42.5	166.352
43.0	152.765
43.5	139.759
44.0	127.415
44.5	115.817
45.0	104.881
45.5	94.609
46.0	85.081
46.5	76.300
47.0	68.264
47.5	60.891
48.0	54.180
48.5	48.050
49.0	42.582
49.5	37.694
50.0	33.304
50.5	29.410
51.0	26.013
51.5	23.114
52.0	20.545
52.5	18.309
53.0	16.403
53.5	14.746
54.0	13.338
54.5	12.095

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CANDELA TABULATION - (Cont.)

55.0	11.018
55.5	10.190
56.0	9.444
56.5	8.864
57.0	8.367
57.5	7.870
58.0	7.373
58.5	6.876
59.0	6.462
59.5	5.965
60.0	5.633
60.5	5.219
61.0	4.888
61.5	4.556
62.0	4.225
62.5	3.977
63.0	3.728
63.5	3.479
64.0	3.231
64.5	3.065
65.0	2.817
65.5	2.651
66.0	2.485
66.5	2.320
67.0	2.154
67.5	2.071
68.0	1.905
68.5	1.823
69.0	1.657
69.5	1.574
70.0	1.491
70.5	1.408
71.0	1.326
71.5	1.243
72.0	1.160
72.5	1.077
73.0	0.994
73.5	0.994
74.0	0.911
74.5	0.828
75.0	0.746
75.5	0.746
76.0	0.663
76.5	0.663
77.0	0.580
77.5	0.580
78.0	0.497
78.5	0.497
79.0	0.497
79.5	0.414
80.0	0.414
80.5	0.331
81.0	0.331
81.5	0.331
82.0	0.331
82.5	0.249

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CANDELA TABULATION - (Cont.)

83.0	0.249
83.5	0.249
84.0	0.166
84.5	0.166
85.0	0.166
85.5	0.166
86.0	0.166
86.5	0.083
87.0	0.083
87.5	0.083
88.0	0.083
88.5	0.083
89.0	0.083
89.5	0.083
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
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130.5	0.000
131.0	0.000
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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
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151.0	0.000
151.5	0.000
152.0	0.000
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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
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157.5	0.000
158.0	0.000
158.5	0.000
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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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	403.00	N.A.	35.00
0-30	782.86	N.A.	68.00
0-40	1047.97	N.A.	91.00
0-60	1147.83	N.A.	99.60
0-80	1151.73	N.A.	100.00
0-90	1151.93	N.A.	100.00
10-90	1044.19	N.A.	90.60
20-40	644.96	N.A.	56.00
20-50	732.67	N.A.	63.60
40-70	102.88	N.A.	8.90
60-80	3.90	N.A.	0.30
70-80	0.88	N.A.	0.10
80-90	0.20	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	1151.93	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	107.75
10-20	295.26
20-30	379.86
30-40	265.11
40-50	87.71
50-60	12.15
60-70	3.02
70-80	0.88
80-90	0.20
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	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86
3	102	95	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80
4	97	89	83	79	95	88	83	79	86	81	78	84	80	77	82	78	76	74
5	92	83	77	73	90	82	77	72	80	75	72	79	74	71	77	73	70	69
6	87	78	72	67	85	77	71	67	75	70	66	74	69	66	73	69	66	64
7	82	73	67	62	81	72	66	62	71	66	62	70	65	61	69	64	61	60
8	78	68	62	58	77	68	62	58	67	61	58	66	61	57	65	60	57	56
9	74	64	58	54	73	64	58	54	63	58	54	62	57	54	61	57	54	52
10	71	61	55	51	70	60	55	51	59	54	51	59	54	50	58	53	50	49

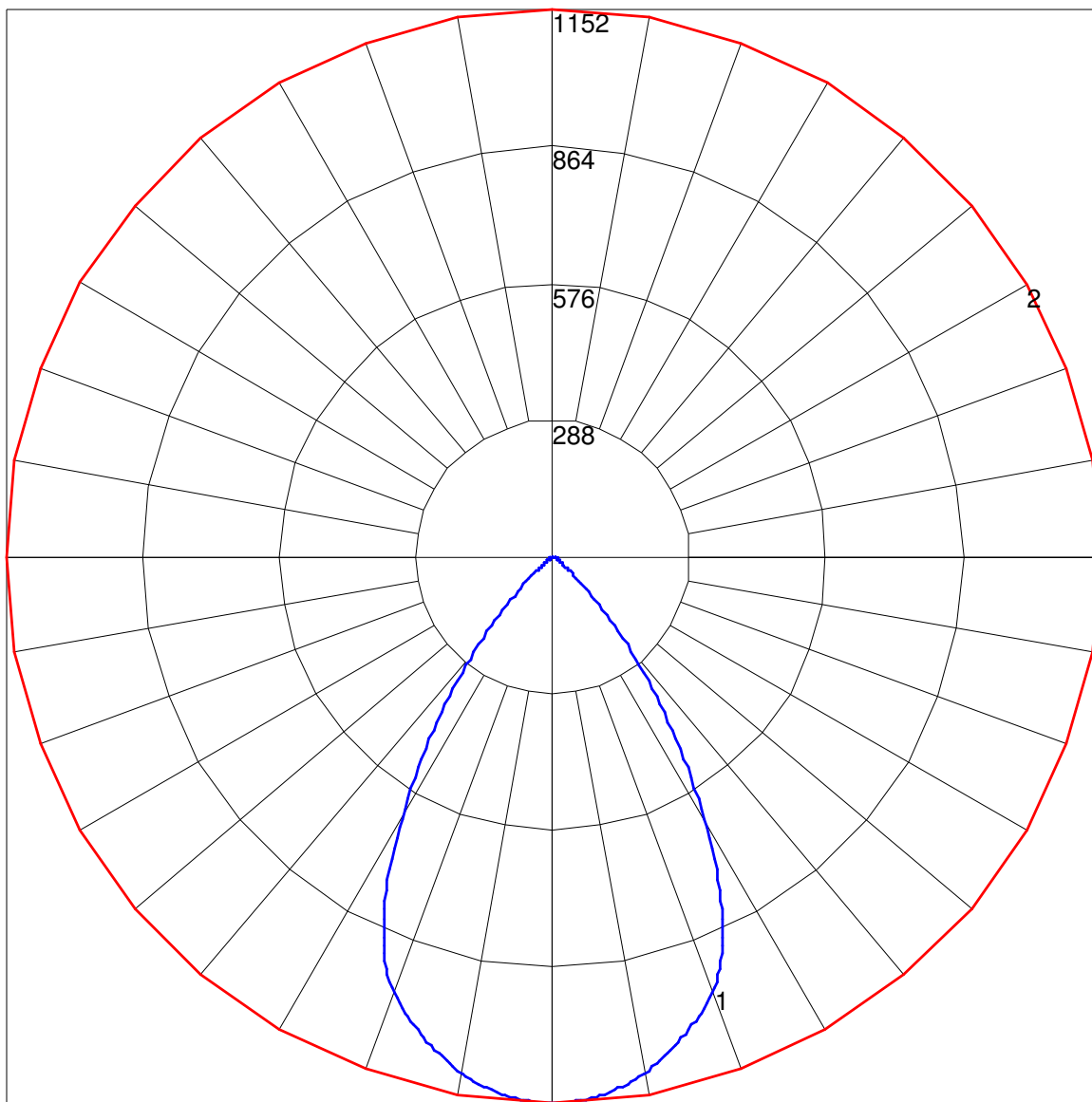
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**UGR TABLE - CORRECTED**

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	0.5	1.2	0.6	1.5	1.8	0.5	1.2	0.6	1.5	1.8
	3H	0.5	1.2	0.7	1.6	1.9	0.5	1.2	0.7	1.6	1.9
	4H	0.5	1.1	0.8	1.5	1.9	0.5	1.1	0.8	1.5	1.9
	6H	0.5	1.0	0.7	1.4	1.8	0.5	1.0	0.7	1.4	1.8
	8H	0.5	0.9	0.7	1.3	1.7	0.5	0.9	0.7	1.3	1.7
	12H	0.5	0.9	0.6	1.2	1.7	0.5	0.9	0.6	1.2	1.7
4H	2H	0.5	0.9	0.5	1.3	1.7	0.5	0.9	0.5	1.3	1.7
	3H	0.5	1.0	0.8	1.4	1.8	0.5	1.0	0.8	1.4	1.8
	4H	0.5	0.9	0.8	1.4	1.8	0.5	0.9	0.8	1.4	1.8
	6H	0.5	0.8	0.8	1.3	1.8	0.5	0.8	0.8	1.3	1.8
	8H	0.5	0.8	0.8	1.2	1.7	0.5	0.8	0.8	1.2	1.7
	12H	0.5	0.7	0.8	1.1	1.6	0.5	0.7	0.8	1.1	1.6
8H	4H	0.5	0.7	0.7	1.2	1.6	0.5	0.7	0.7	1.2	1.6
	6H	0.5	0.6	0.8	1.1	1.6	0.5	0.6	0.8	1.1	1.6
	8H	0.5	0.5	0.8	1.1	1.6	0.5	0.5	0.8	1.1	1.6
	12H	0.5	0.5	0.7	1.0	1.6	0.5	0.5	0.7	1.0	1.6
12H	4H	0.5	0.6	0.7	1.1	1.6	0.5	0.6	0.7	1.1	1.6
	6H	0.5	0.5	0.7	1.0	1.5	0.5	0.5	0.7	1.0	1.5
	8H	0.5	0.5	0.7	1.0	1.5	0.5	0.5	0.7	1.0	1.5

Maximum UGR = 1.9

POLAR GRAPH



Maximum Candela = 1151.54 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.)