

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6LDR-L30-835-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-L30-835-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	1118
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	43
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	7887	7887	7887
55	1021	1021	1021
65	354	354	354
75	153	153	153
85	101	101	101

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CANDELA TABULATION

	<u>0</u>
0.0	1118.000
0.5	1118.000
1.0	1118.000
1.5	1117.196
2.0	1116.391
2.5	1115.587
3.0	1114.783
3.5	1112.370
4.0	1110.761
4.5	1109.152
5.0	1106.740
5.5	1105.131
6.0	1101.914
6.5	1099.501
7.0	1096.283
7.5	1093.066
8.0	1089.849
8.5	1085.827
9.0	1081.806
9.5	1077.784
10.0	1073.763
10.5	1068.937
11.0	1064.111
11.5	1059.285
12.0	1053.655
12.5	1048.829
13.0	1042.394
13.5	1037.568
14.0	1031.134
14.5	1025.504
15.0	1019.069
15.5	1012.634
16.0	1007.004
16.5	1000.570
17.0	995.744
17.5	989.309
18.0	982.875
18.5	976.440
19.0	968.397
19.5	959.550
20.0	950.702
20.5	941.855
21.0	931.399
21.5	920.942
22.0	908.878
22.5	896.813
23.0	883.140
23.5	868.662
24.0	852.576
24.5	835.685
25.0	818.794
25.5	801.099
26.0	782.600
26.5	763.538

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CANDELA TABULATION - (Cont.)

27.0	743.993
27.5	723.885
28.0	703.294
28.5	682.382
29.0	661.389
29.5	640.156
30.0	619.002
30.5	597.688
31.0	576.293
31.5	554.978
32.0	533.825
32.5	512.832
33.0	492.081
33.5	471.732
34.0	451.704
34.5	431.838
35.0	412.454
35.5	393.391
36.0	374.651
36.5	356.071
37.0	337.974
37.5	320.118
38.0	302.664
38.5	285.532
39.0	268.642
39.5	251.992
40.0	235.826
40.5	220.061
41.0	204.699
41.5	189.819
42.0	175.421
42.5	161.507
43.0	148.316
43.5	135.688
44.0	123.704
44.5	112.443
45.0	101.826
45.5	91.853
46.0	82.603
46.5	74.078
47.0	66.276
47.5	59.117
48.0	52.602
48.5	46.650
49.0	41.342
49.5	36.596
50.0	32.334
50.5	28.553
51.0	25.256
51.5	22.440
52.0	19.947
52.5	17.775
53.0	15.925
53.5	14.317
54.0	12.949
54.5	11.743

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CANDELA TABULATION - (Cont.)

55.0	10.697
55.5	9.893
56.0	9.169
56.5	8.606
57.0	8.124
57.5	7.641
58.0	7.158
58.5	6.676
59.0	6.274
59.5	5.791
60.0	5.469
60.5	5.067
61.0	4.745
61.5	4.424
62.0	4.102
62.5	3.861
63.0	3.619
63.5	3.378
64.0	3.137
64.5	2.976
65.0	2.735
65.5	2.574
66.0	2.413
66.5	2.252
67.0	2.091
67.5	2.011
68.0	1.850
68.5	1.769
69.0	1.609
69.5	1.528
70.0	1.448
70.5	1.367
71.0	1.287
71.5	1.206
72.0	1.126
72.5	1.046
73.0	0.965
73.5	0.965
74.0	0.885
74.5	0.804
75.0	0.724
75.5	0.724
76.0	0.643
76.5	0.643
77.0	0.563
77.5	0.563
78.0	0.483
78.5	0.483
79.0	0.483
79.5	0.402
80.0	0.402
80.5	0.322
81.0	0.322
81.5	0.322
82.0	0.322
82.5	0.241

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CANDELA TABULATION - (Cont.)

83.0	0.241
83.5	0.241
84.0	0.161
84.5	0.161
85.0	0.161
85.5	0.161
86.0	0.161
86.5	0.080
87.0	0.080
87.5	0.080
88.0	0.080
88.5	0.080
89.0	0.080
89.5	0.080
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
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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
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	391.27	N.A.	35.00
0-30	760.06	N.A.	68.00
0-40	1017.44	N.A.	91.00
0-60	1114.4	N.A.	99.60
0-80	1118.19	N.A.	100.00
0-90	1118.38	N.A.	100.00
10-90	1013.77	N.A.	90.60
20-40	626.18	N.A.	56.00
20-50	711.33	N.A.	63.60
40-70	99.89	N.A.	8.90
60-80	3.79	N.A.	0.30
70-80	0.86	N.A.	0.10
80-90	0.19	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	1118.38	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	104.61
10-20	286.66
20-30	368.79
30-40	257.38
40-50	85.16
50-60	11.80
60-70	2.93
70-80	0.86
80-90	0.19
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	96	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	79	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	62	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	54	50	49

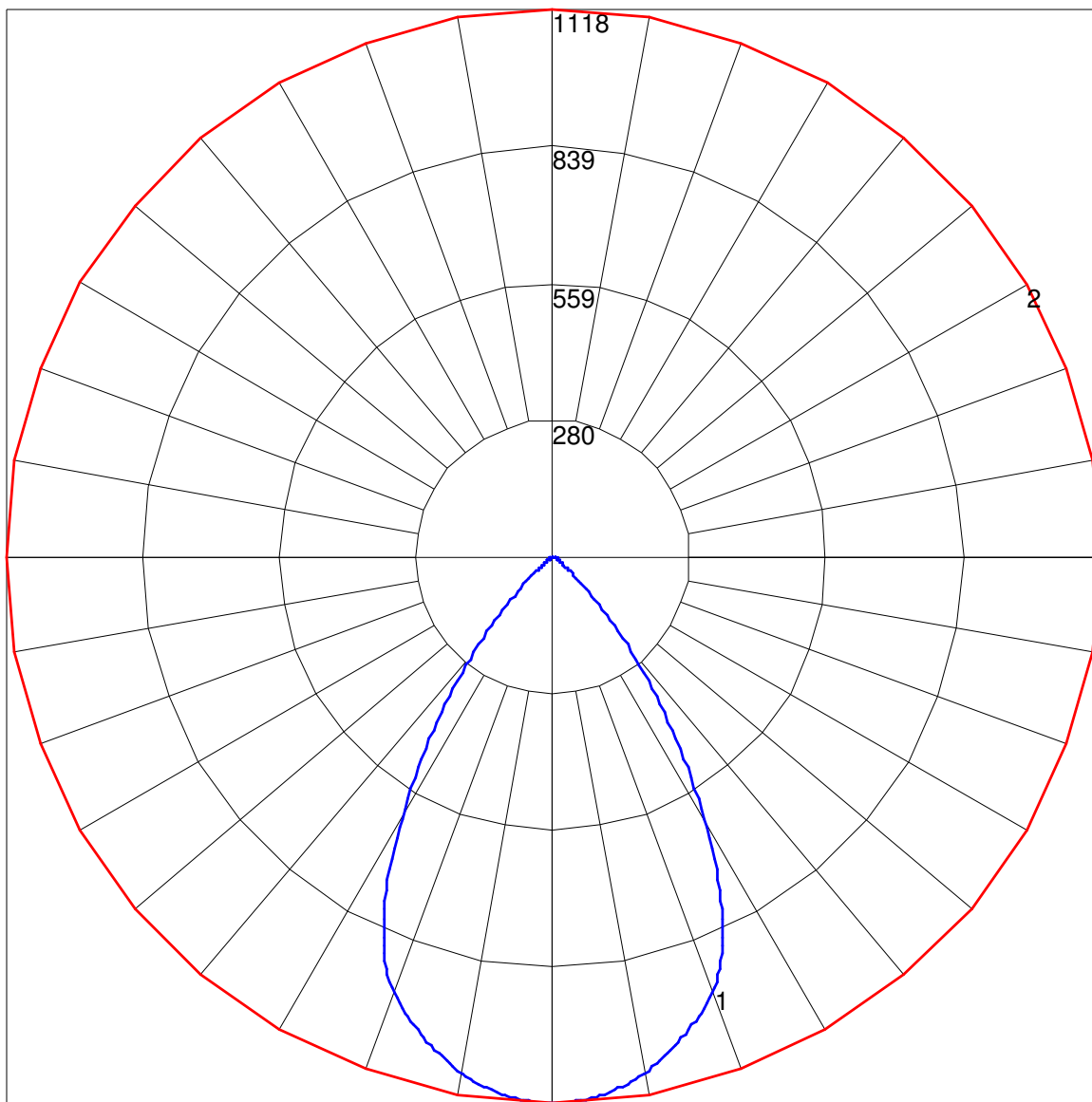
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UGR TABLE - CORRECTED

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	0.4	1.1	0.5	1.4	1.7	0.4	1.1	0.5	1.4	1.7
	3H	0.4	1.1	0.6	1.5	1.8	0.4	1.1	0.6	1.5	1.8
	4H	0.4	1.0	0.6	1.4	1.8	0.4	1.0	0.6	1.4	1.8
	6H	0.4	0.9	0.6	1.3	1.7	0.4	0.9	0.6	1.3	1.7
	8H	0.4	0.8	0.6	1.2	1.6	0.4	0.8	0.6	1.2	1.6
	12H	0.4	0.8	0.5	1.1	1.6	0.4	0.8	0.5	1.1	1.6
4H	2H	0.4	0.8	0.4	1.2	1.6	0.4	0.8	0.4	1.2	1.6
	3H	0.4	0.9	0.7	1.3	1.7	0.4	0.9	0.7	1.3	1.7
	4H	0.4	0.8	0.7	1.3	1.7	0.4	0.8	0.7	1.3	1.7
	6H	0.4	0.7	0.7	1.2	1.7	0.4	0.7	0.7	1.2	1.7
	8H	0.4	0.7	0.7	1.1	1.6	0.4	0.7	0.7	1.1	1.6
	12H	0.4	0.5	0.6	1.0	1.5	0.4	0.5	0.6	1.0	1.5
8H	4H	0.4	0.6	0.6	1.1	1.5	0.4	0.6	0.6	1.1	1.5
	6H	0.4	0.5	0.7	1.0	1.5	0.4	0.5	0.7	1.0	1.5
	8H	0.4	0.4	0.6	1.0	1.5	0.4	0.4	0.6	1.0	1.5
	12H	0.4	0.4	0.6	0.9	1.4	0.4	0.4	0.6	0.9	1.4
12H	4H	0.4	0.5	0.6	1.0	1.4	0.4	0.5	0.6	1.0	1.4
	6H	0.4	0.4	0.6	0.9	1.4	0.4	0.4	0.6	0.9	1.4
	8H	0.4	0.4	0.6	0.9	1.4	0.4	0.4	0.6	0.9	1.4

Maximum UGR = 1.8

POLAR GRAPH



Maximum Candela = 1118 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.)