

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6LDR-L30-830-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-L30-830-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	1107
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	7808	7808	7808
55	1011	1011	1011
65	351	351	351
75	152	152	152
85	100	100	100

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CANDELA TABULATION

	<u>0</u>
0.0	1106.820
0.5	1106.820
1.0	1106.820
1.5	1106.024
2.0	1105.227
2.5	1104.431
3.0	1103.635
3.5	1101.246
4.0	1099.654
4.5	1098.061
5.0	1095.672
5.5	1094.080
6.0	1090.895
6.5	1088.506
7.0	1085.321
7.5	1082.136
8.0	1078.950
8.5	1074.969
9.0	1070.988
9.5	1067.006
10.0	1063.025
10.5	1058.247
11.0	1053.470
11.5	1048.692
12.0	1043.118
12.5	1038.341
13.0	1031.970
13.5	1027.193
14.0	1020.823
14.5	1015.249
15.0	1008.878
15.5	1002.508
16.0	996.934
16.5	990.564
17.0	985.786
17.5	979.416
18.0	973.046
18.5	966.676
19.0	958.713
19.5	949.954
20.0	941.195
20.5	932.436
21.0	922.085
21.5	911.733
22.0	899.789
22.5	887.845
23.0	874.308
23.5	859.975
24.0	844.050
24.5	827.328
25.0	810.606
25.5	793.088
26.0	774.774
26.5	755.902

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CANDELA TABULATION - (Cont.)

27.0	736.553
27.5	716.646
28.0	696.261
28.5	675.558
29.0	654.776
29.5	633.754
30.0	612.812
30.5	591.711
31.0	570.530
31.5	549.429
32.0	528.487
32.5	507.704
33.0	487.160
33.5	467.014
34.0	447.187
34.5	427.519
35.0	408.329
35.5	389.457
36.0	370.904
36.5	352.510
37.0	334.594
37.5	316.917
38.0	299.638
38.5	282.677
39.0	265.955
39.5	249.472
40.0	233.467
40.5	217.860
41.0	202.652
41.5	187.921
42.0	173.667
42.5	159.892
43.0	146.833
43.5	134.331
44.0	122.467
44.5	111.319
45.0	100.808
45.5	90.934
46.0	81.777
46.5	73.337
47.0	65.613
47.5	58.526
48.0	52.076
48.5	46.184
49.0	40.928
49.5	36.230
50.0	32.010
50.5	28.268
51.0	25.003
51.5	22.216
52.0	19.748
52.5	17.598
53.0	15.766
53.5	14.174
54.0	12.820
54.5	11.626

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CANDELA TABULATION - (Cont.)

55.0	10.590
55.5	9.794
56.0	9.078
56.5	8.520
57.0	8.042
57.5	7.565
58.0	7.087
58.5	6.609
59.0	6.211
59.5	5.733
60.0	5.415
60.5	5.017
61.0	4.698
61.5	4.380
62.0	4.061
62.5	3.822
63.0	3.583
63.5	3.344
64.0	3.105
64.5	2.946
65.0	2.707
65.5	2.548
66.0	2.389
66.5	2.230
67.0	2.070
67.5	1.991
68.0	1.831
68.5	1.752
69.0	1.593
69.5	1.513
70.0	1.433
70.5	1.354
71.0	1.274
71.5	1.194
72.0	1.115
72.5	1.035
73.0	0.956
73.5	0.956
74.0	0.876
74.5	0.796
75.0	0.717
75.5	0.717
76.0	0.637
76.5	0.637
77.0	0.557
77.5	0.557
78.0	0.478
78.5	0.478
79.0	0.478
79.5	0.398
80.0	0.398
80.5	0.319
81.0	0.319
81.5	0.319
82.0	0.319
82.5	0.239

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CANDELA TABULATION - (Cont.)

83.0	0.239
83.5	0.239
84.0	0.159
84.5	0.159
85.0	0.159
85.5	0.159
86.0	0.159
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
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122.0	0.000
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123.0	0.000
123.5	0.000
124.0	0.000
124.5	0.000
125.0	0.000
125.5	0.000
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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
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131.0	0.000
131.5	0.000
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132.5	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	387.35	N.A.	35.00
0-30	752.46	N.A.	68.00
0-40	1007.27	N.A.	91.00
0-60	1103.25	N.A.	99.60
0-80	1107.00	N.A.	100.00
0-90	1107.2	N.A.	100.00
10-90	1003.64	N.A.	90.60
20-40	619.91	N.A.	56.00
20-50	704.22	N.A.	63.60
40-70	98.89	N.A.	8.90
60-80	3.75	N.A.	0.30
70-80	0.85	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	1107.2	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	103.56
10-20	283.79
20-30	365.10
30-40	254.81
40-50	84.31
50-60	11.68
60-70	2.90
70-80	0.85
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

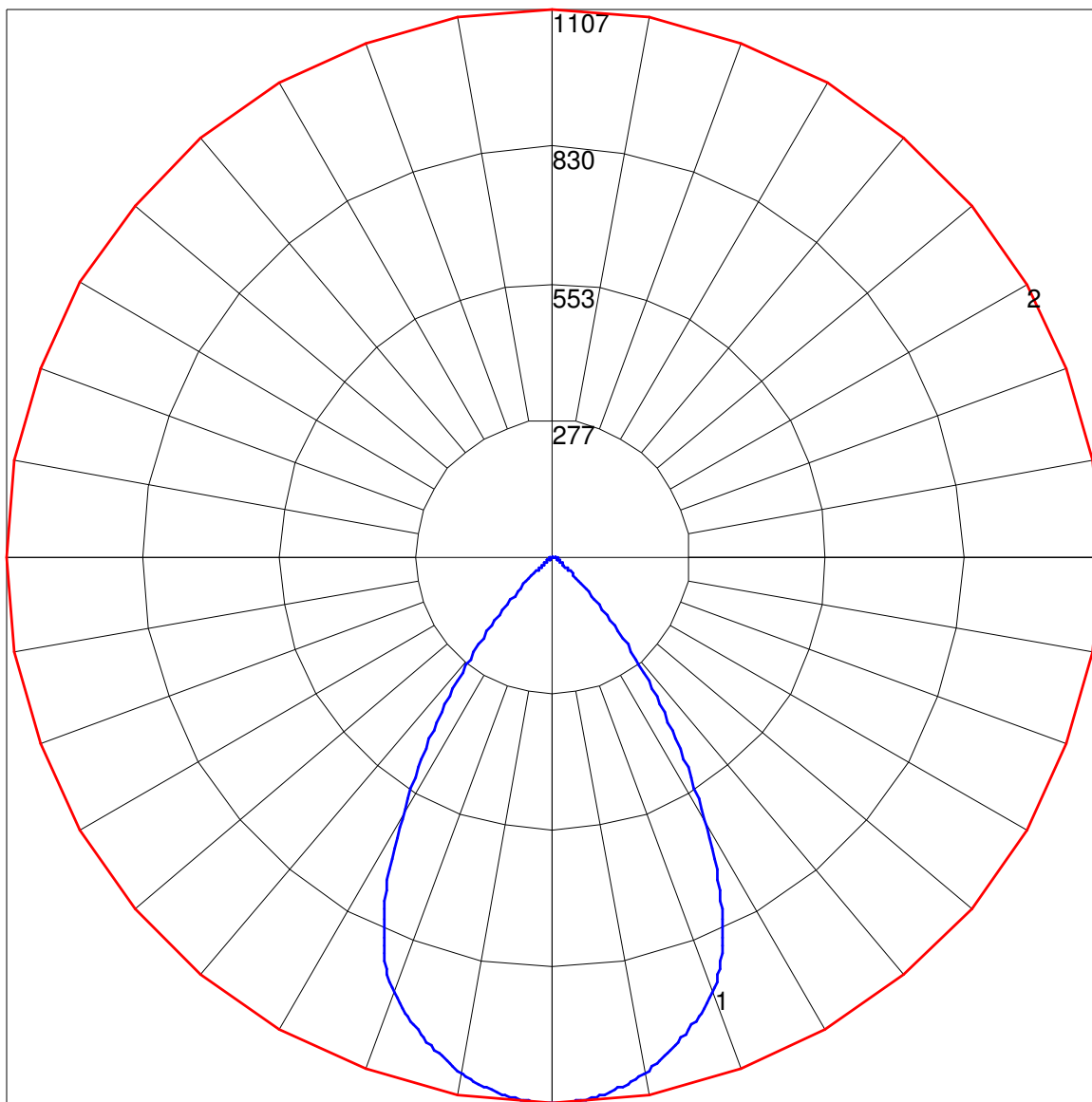
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UGR TABLE - CORRECTED

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	0.7	1.4	1.8	0.4	1.0	0.7	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	0.6	0.7	1.0	1.5	0.4	0.6	0.7	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	0.7	1.0	1.5	0.4	0.4	0.7	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	1.5	0.4	0.5	0.6	1.0	1.5
	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 = 1106.82 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.)