

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6LDR-L15-930-CS-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM 4792018053.03
[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-L15-930-CS-DIM-UNV
[LUMINAIRE] 6" recessed downlight with clear semi-specular finish refl
[MORE] ector 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	1273
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	13.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.86
Spacing Criterion (90-270)	0.86
Spacing Criterion (Diagonal)	0.90
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	12733	12733	12733
55	1395	1395	1395
65	154	154	154
75	57	57	57
85	48	48	48

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CANDELA TABULATION

	<u>0</u>
0.0	1404.478
0.5	1404.478
1.0	1404.478
1.5	1405.247
2.0	1406.016
2.5	1406.784
3.0	1407.553
3.5	1407.937
4.0	1407.169
4.5	1405.631
5.0	1402.556
5.5	1398.328
6.0	1392.178
6.5	1385.260
7.0	1376.804
7.5	1367.579
8.0	1355.279
8.5	1343.364
9.0	1329.526
9.5	1313.767
10.0	1298.008
10.5	1280.712
11.0	1262.262
11.5	1242.275
12.0	1223.825
12.5	1203.838
13.0	1182.698
13.5	1165.786
14.0	1146.183
14.5	1127.349
15.0	1110.437
15.5	1094.678
16.0	1076.997
16.5	1063.929
17.0	1049.707
17.5	1035.485
18.0	1022.801
18.5	1008.964
19.0	996.664
19.5	984.749
20.0	972.834
20.5	960.918
21.0	949.003
21.5	937.087
22.0	925.172
22.5	912.104
23.0	899.804
23.5	886.735
24.0	873.282
24.5	859.445
25.0	844.839
25.5	829.465
26.0	813.706
26.5	796.793

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CANDELA TABULATION - (Cont.)

27.0	779.497
27.5	761.816
28.0	742.982
28.5	724.148
29.0	704.545
29.5	685.327
30.0	664.955
30.5	644.968
31.0	624.597
31.5	604.610
32.0	584.238
32.5	563.867
33.0	543.880
33.5	524.277
34.0	504.290
34.5	485.072
35.0	467.775
35.5	449.325
36.0	430.876
36.5	412.810
37.0	394.745
37.5	376.949
38.0	359.576
38.5	342.510
39.0	325.828
39.5	309.531
40.0	293.618
40.5	278.282
41.0	263.292
41.5	248.916
42.0	235.041
42.5	221.780
43.0	209.096
43.5	197.065
44.0	185.534
44.5	174.695
45.0	164.394
45.5	154.593
46.0	145.291
46.5	136.412
47.0	127.917
47.5	119.769
48.0	111.928
48.5	104.317
49.0	96.822
49.5	89.481
50.0	82.216
50.5	74.990
51.0	67.802
51.5	60.538
52.0	53.312
52.5	45.970
53.0	38.706
53.5	31.710
54.0	25.214
54.5	19.487

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CANDELA TABULATION - (Cont.)

55.0	14.606
55.5	10.839
56.0	8.187
56.5	6.419
57.0	5.304
57.5	4.536
58.0	3.959
58.5	3.536
59.0	3.190
59.5	2.883
60.0	2.614
60.5	2.422
61.0	2.191
61.5	2.037
62.0	1.883
62.5	1.730
63.0	1.576
63.5	1.461
64.0	1.384
64.5	1.268
65.0	1.192
65.5	1.076
66.0	1.038
66.5	0.961
67.0	0.884
67.5	0.807
68.0	0.769
68.5	0.692
69.0	0.653
69.5	0.615
70.0	0.577
70.5	0.538
71.0	0.500
71.5	0.461
72.0	0.423
72.5	0.384
73.0	0.346
73.5	0.346
74.0	0.307
74.5	0.307
75.0	0.269
75.5	0.269
76.0	0.231
76.5	0.231
77.0	0.192
77.5	0.192
78.0	0.192
78.5	0.154
79.0	0.154
79.5	0.154
80.0	0.115
80.5	0.115
81.0	0.115
81.5	0.115
82.0	0.115
82.5	0.077

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CANDELA TABULATION - (Cont.)

83.0	0.077
83.5	0.077
84.0	0.077
84.5	0.077
85.0	0.077
85.5	0.077
86.0	0.038
86.5	0.038
87.0	0.038
87.5	0.038
88.0	0.038
88.5	0.038
89.0	0.038
89.5	0.038
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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123.5	0.000
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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
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131.0	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
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	443.20	N.A.	34.80
0-30	825.43	N.A.	64.90
0-40	1116.74	N.A.	87.80
0-60	1270.83	N.A.	99.90
0-80	1272.43	N.A.	100.00
0-90	1272.51	N.A.	100.00
10-90	1141.9	N.A.	89.70
20-40	673.54	N.A.	52.90
20-50	804.89	N.A.	63.30
40-70	155.38	N.A.	12.20
60-80	1.60	N.A.	0.10
70-80	0.32	N.A.	0.00
80-90	0.07	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	1272.51	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	130.60
10-20	312.60
20-30	382.23
30-40	291.30
40-50	131.35
50-60	22.74
60-70	1.29
70-80	0.32
80-90	0.07
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	110	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86
3	102	95	90	86	100	94	89	85	91	87	84	89	85	82	86	84	81	80
4	96	88	83	78	94	87	82	78	85	81	77	83	79	76	81	78	75	74
5	91	82	76	72	89	81	76	72	80	75	71	78	74	70	76	73	70	68
6	86	77	71	66	85	76	70	66	75	70	66	73	69	65	72	68	65	63
7	82	72	66	61	80	71	66	61	70	65	61	69	64	61	68	64	60	59
8	78	68	61	57	76	67	61	57	66	61	57	65	60	57	64	60	56	55
9	74	64	58	53	73	63	57	53	62	57	53	61	56	53	60	56	53	51
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	50	48

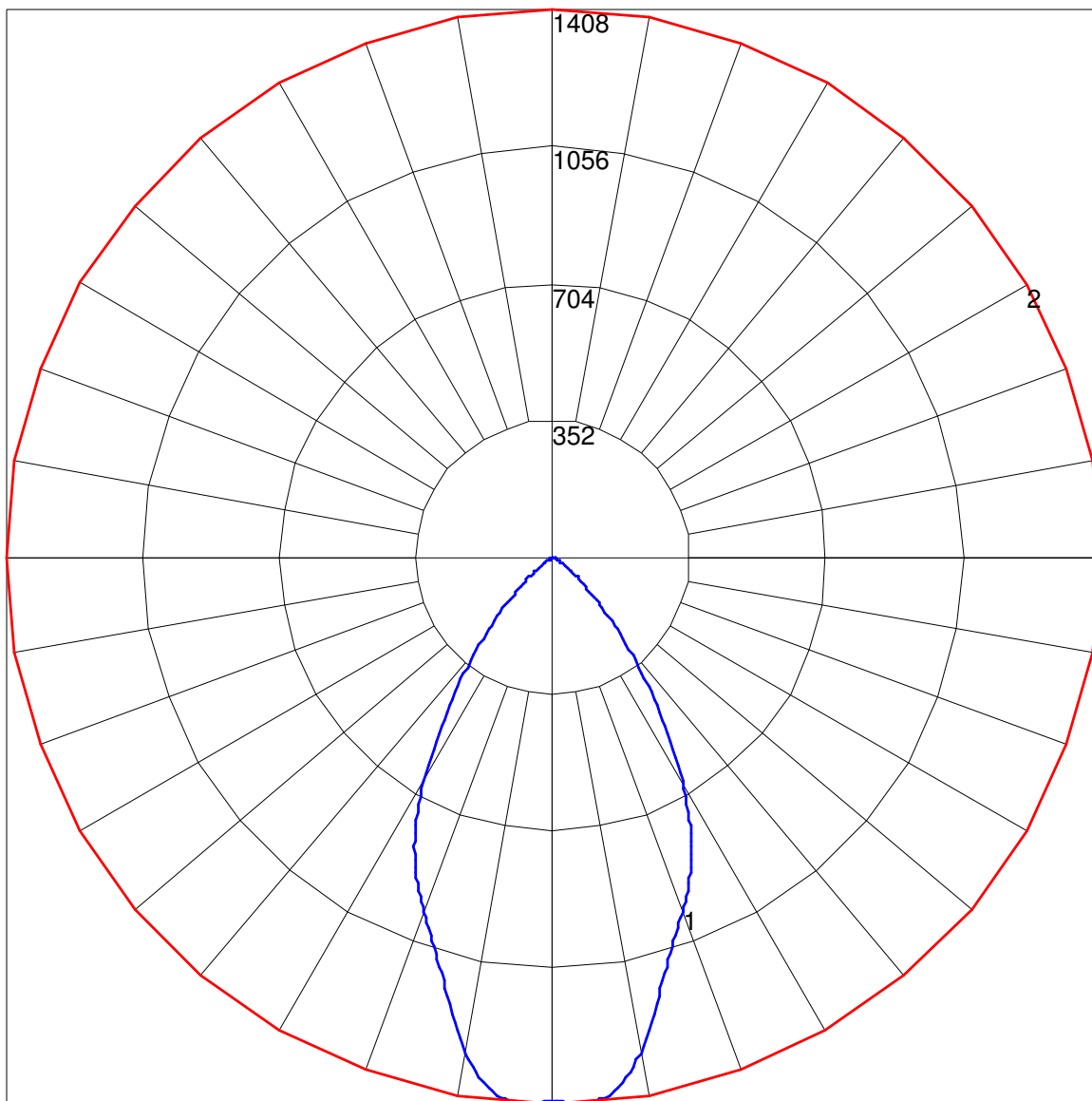
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UGR TABLE - CORRECTED

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	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
	3H	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
	4H	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
	6H	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
	8H	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
	12H	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
4H	2H	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
	3H	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
	4H	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
	6H	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
	8H	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
	12H	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
8H	4H	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
	6H	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
	8H	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
	12H	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
12H	4H	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
	6H	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
	8H	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9

Maximum UGR = 0.9

POLAR GRAPH



Maximum Candela = 1407.937 Located At Horizontal Angle = 0, Vertical Angle = 3.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (3.5) (Through Max. Cd.)