

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6LDR-L15-935-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-L15-935-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	1288
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
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	12888	12888	12888
55	1412	1412	1412
65	156	156	156
75	58	58	58
85	49	49	49

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CANDELA TABULATION

	<u>0</u>
0.0	1421.606
0.5	1421.606
1.0	1421.606
1.5	1422.384
2.0	1423.162
2.5	1423.940
3.0	1424.718
3.5	1425.107
4.0	1424.329
4.5	1422.773
5.0	1419.661
5.5	1415.381
6.0	1409.156
6.5	1402.153
7.0	1393.594
7.5	1384.257
8.0	1371.807
8.5	1359.746
9.0	1345.740
9.5	1329.789
10.0	1313.838
10.5	1296.330
11.0	1277.656
11.5	1257.425
12.0	1238.750
12.5	1218.519
13.0	1197.121
13.5	1180.003
14.0	1160.161
14.5	1141.097
15.0	1123.979
15.5	1108.028
16.0	1090.131
16.5	1076.903
17.0	1062.508
17.5	1048.113
18.0	1035.275
18.5	1021.269
19.0	1008.819
19.5	996.758
20.0	984.697
20.5	972.637
21.0	960.576
21.5	948.515
22.0	936.455
22.5	923.227
23.0	910.777
23.5	897.549
24.0	883.932
24.5	869.926
25.0	855.142
25.5	839.580
26.0	823.629
26.5	806.510

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CANDELA TABULATION - (Cont.)

27.0	789.003
27.5	771.106
28.0	752.043
28.5	732.979
29.0	713.137
29.5	693.685
30.0	673.065
30.5	652.834
31.0	632.214
31.5	611.983
32.0	591.363
32.5	570.743
33.0	550.512
33.5	530.671
34.0	510.440
34.5	490.987
35.0	473.480
35.5	454.805
36.0	436.130
36.5	417.845
37.0	399.559
37.5	381.546
38.0	363.961
38.5	346.687
39.0	329.802
39.5	313.306
40.0	297.199
40.5	281.676
41.0	266.502
41.5	251.952
42.0	237.907
42.5	224.485
43.0	211.646
43.5	199.468
44.0	187.797
44.5	176.825
45.0	166.399
45.5	156.478
46.0	147.063
46.5	138.076
47.0	129.477
47.5	121.229
48.0	113.293
48.5	105.589
49.0	98.003
49.5	90.572
50.0	83.219
50.5	75.905
51.0	68.629
51.5	61.276
52.0	53.962
52.5	46.531
53.0	39.178
53.5	32.097
54.0	25.522
54.5	19.725

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CANDELA TABULATION - (Cont.)

55.0	14.784
55.5	10.971
56.0	8.287
56.5	6.497
57.0	5.369
57.5	4.591
58.0	4.007
58.5	3.579
59.0	3.229
59.5	2.918
60.0	2.646
60.5	2.451
61.0	2.218
61.5	2.062
62.0	1.906
62.5	1.751
63.0	1.595
63.5	1.478
64.0	1.401
64.5	1.284
65.0	1.206
65.5	1.089
66.0	1.050
66.5	0.973
67.0	0.895
67.5	0.817
68.0	0.778
68.5	0.700
69.0	0.661
69.5	0.622
70.0	0.584
70.5	0.545
71.0	0.506
71.5	0.467
72.0	0.428
72.5	0.389
73.0	0.350
73.5	0.350
74.0	0.311
74.5	0.311
75.0	0.272
75.5	0.272
76.0	0.233
76.5	0.233
77.0	0.195
77.5	0.195
78.0	0.195
78.5	0.156
79.0	0.156
79.5	0.156
80.0	0.117
80.5	0.117
81.0	0.117
81.5	0.117
82.0	0.117
82.5	0.078

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CANDELA TABULATION - (Cont.)

83.0	0.078
83.5	0.078
84.0	0.078
84.5	0.078
85.0	0.078
85.5	0.078
86.0	0.039
86.5	0.039
87.0	0.039
87.5	0.039
88.0	0.039
88.5	0.039
89.0	0.039
89.5	0.039
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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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
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129.0	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
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157.5	0.000
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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	448.61	N.A.	34.80
0-30	835.50	N.A.	64.90
0-40	1130.36	N.A.	87.80
0-60	1286.33	N.A.	99.90
0-80	1287.95	N.A.	100.00
0-90	1288.02	N.A.	100.00
10-90	1155.83	N.A.	89.70
20-40	681.75	N.A.	52.90
20-50	814.70	N.A.	63.30
40-70	157.27	N.A.	12.20
60-80	1.62	N.A.	0.10
70-80	0.32	N.A.	0.00
80-90	0.08	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	1288.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	132.19
10-20	316.41
20-30	386.90
30-40	294.86
40-50	132.95
50-60	23.02
60-70	1.30
70-80	0.32
80-90	0.08
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	82	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	62	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

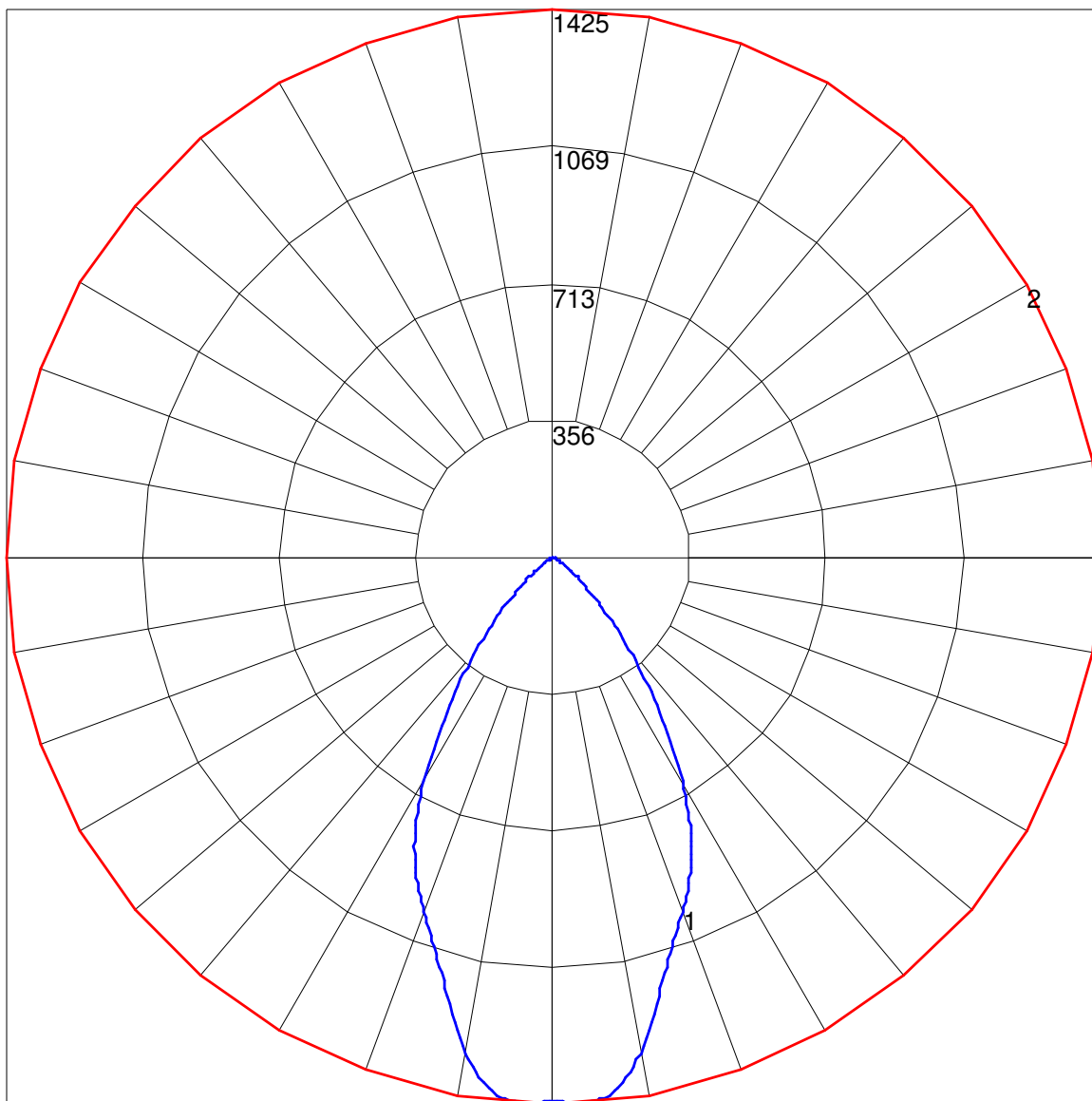
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UGR TABLE - CORRECTED

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 = 1425.107 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.)