

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L18-935-DIM-UNV-RW-OF-WH\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] GEN FROM 13257153.03  
[TESTLAB] UL Verification Services Inc.  
[ISSUE DATE] 2025-05-20  
[MANUFAC] WILLIAMS INDOOR  
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
[LUMCAT] V2DR-L18-935-DIM-UNV-RW-OF-WH\_  
[LUMINAIRE] Aluminum housing, optics, and trim enclosure  
[LAMP] One white LED  
[OTHER] This test was performed using the calibrated photodetector method of absolute photometry.  
[SEARCH\_SOURCETYPE] LED  
[SEARCH\_APPLICATION] Indoor, Downlight  
[SEARCH\_MOUNTING] Recessed

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1437
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	60
Total Luminaire Watts	23.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.88
Spacing Criterion (90-270)	0.88
Spacing Criterion (Diagonal)	0.80
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.21 ft (Diameter)
Luminous Width (90-270)	0.21 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	51503	51503	51503
55	40755	40755	40755
65	30464	30464	30464
75	15862	15862	15862
85	9612	9612	9612

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CANDELA TABULATION

	<u>0</u>
0.0	1711.967
0.5	1711.967
1.0	1711.084
1.5	1710.202
2.0	1710.202
2.5	1708.437
3.0	1705.789
3.5	1702.260
4.0	1698.730
4.5	1695.200
5.0	1689.905
5.5	1685.493
6.0	1680.198
6.5	1674.021
7.0	1667.844
7.5	1661.667
8.0	1655.489
8.5	1648.430
9.0	1640.488
9.5	1633.428
10.0	1625.486
10.5	1616.661
11.0	1606.954
11.5	1597.247
12.0	1586.658
12.5	1576.068
13.0	1564.596
13.5	1552.242
14.0	1539.005
14.5	1525.768
15.0	1510.766
15.5	1495.765
16.0	1478.998
16.5	1462.231
17.0	1444.582
17.5	1426.051
18.0	1406.636
18.5	1385.458
19.0	1363.396
19.5	1339.570
20.0	1314.861
20.5	1289.270
21.0	1261.914
21.5	1233.675
22.0	1202.789
22.5	1171.903
23.0	1139.252
23.5	1105.719
24.0	1070.420
24.5	1035.122
25.0	998.941
25.5	960.996
26.0	922.168
26.5	883.339

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**CANDELA TABULATION - (Cont.)**

27.0	844.776
27.5	806.036
28.0	766.943
28.5	728.027
29.0	688.228
29.5	648.165
30.0	608.454
30.5	569.361
31.0	530.798
31.5	493.558
32.0	457.730
32.5	423.844
33.0	392.429
33.5	363.308
34.0	336.216
34.5	311.419
35.0	288.916
35.5	268.267
36.0	249.559
36.5	232.792
37.0	217.879
37.5	204.554
38.0	192.464
38.5	181.698
39.0	172.256
39.5	163.961
40.0	156.548
40.5	150.106
41.0	144.370
41.5	139.252
42.0	134.663
42.5	130.604
43.0	126.897
43.5	123.632
44.0	120.544
44.5	117.720
45.0	115.072
45.5	112.513
46.0	110.131
46.5	107.748
47.0	105.542
47.5	103.336
48.0	101.130
48.5	99.012
49.0	96.894
49.5	94.776
50.0	92.746
50.5	90.805
51.0	88.775
51.5	86.834
52.0	84.981
52.5	83.039
53.0	81.186
53.5	79.333
54.0	77.480
54.5	75.627

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**CANDELA TABULATION - (Cont.)**

55.0	73.862
55.5	72.097
56.0	70.332
56.5	68.567
57.0	66.802
57.5	65.125
58.0	63.360
58.5	61.684
59.0	60.007
59.5	58.419
60.0	56.742
60.5	55.065
61.0	53.389
61.5	51.800
62.0	50.124
62.5	48.535
63.0	46.947
63.5	45.358
64.0	43.770
64.5	42.181
65.0	40.681
65.5	39.181
66.0	37.681
66.5	36.092
67.0	34.681
67.5	33.269
68.0	31.768
68.5	30.357
69.0	28.945
69.5	27.533
70.0	26.209
70.5	24.797
71.0	23.473
71.5	22.061
72.0	20.738
72.5	19.414
73.0	18.090
73.5	16.767
74.0	15.531
74.5	14.208
75.0	12.972
75.5	11.825
76.0	10.678
76.5	9.795
77.0	9.001
77.5	8.295
78.0	7.766
78.5	7.324
79.0	6.971
79.5	6.618
80.0	6.177
80.5	5.824
81.0	5.471
81.5	5.118
82.0	4.677
82.5	4.324

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CANDELA TABULATION - (Cont.)

83.0	4.059
83.5	3.706
84.0	3.353
84.5	3.000
85.0	2.647
85.5	2.383
86.0	2.030
86.5	1.765
87.0	1.412
87.5	1.147
88.0	0.882
88.5	0.618
89.0	0.353
89.5	0.265
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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PHOTOMETRIC FILENAME : V2DR-L18-935-DIM-UNV-RW-OF-WH\_.IES

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
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
128.0	0.000
128.5	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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PHOTOMETRIC FILENAME : V2DR-L18-935-DIM-UNV-RW-OF-WH\_.IES

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	579.04	N.A.	40.30
0-30	1025.05	N.A.	71.40
0-40	1221.3	N.A.	85.00
0-60	1378.16	N.A.	95.90
0-80	1433.45	N.A.	99.80
0-90	1436.5	N.A.	100.00
10-90	1277.26	N.A.	88.90
20-40	642.26	N.A.	44.70
20-50	732.92	N.A.	51.00
40-70	197.30	N.A.	13.70
60-80	55.29	N.A.	3.80
70-80	14.86	N.A.	1.00
80-90	3.05	N.A.	0.20
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	1436.5	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	159.24
10-20	419.80
20-30	446.01
30-40	196.24
40-50	90.67
50-60	66.20
60-70	40.43
70-80	14.86
80-90	3.05
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	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78
4	96	88	82	78	94	87	81	77	84	80	76	82	78	75	81	77	74	73
5	91	82	76	71	89	81	75	71	79	74	71	78	73	70	76	72	69	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	81	72	66	62	70	65	61	69	65	61	68	64	61	59
8	78	68	62	58	77	68	62	58	67	61	58	66	61	57	65	60	57	56
9	75	65	59	55	73	64	58	54	63	58	54	62	58	54	61	57	54	53
10	71	61	55	52	70	61	55	51	60	55	51	59	55	51	59	54	51	50

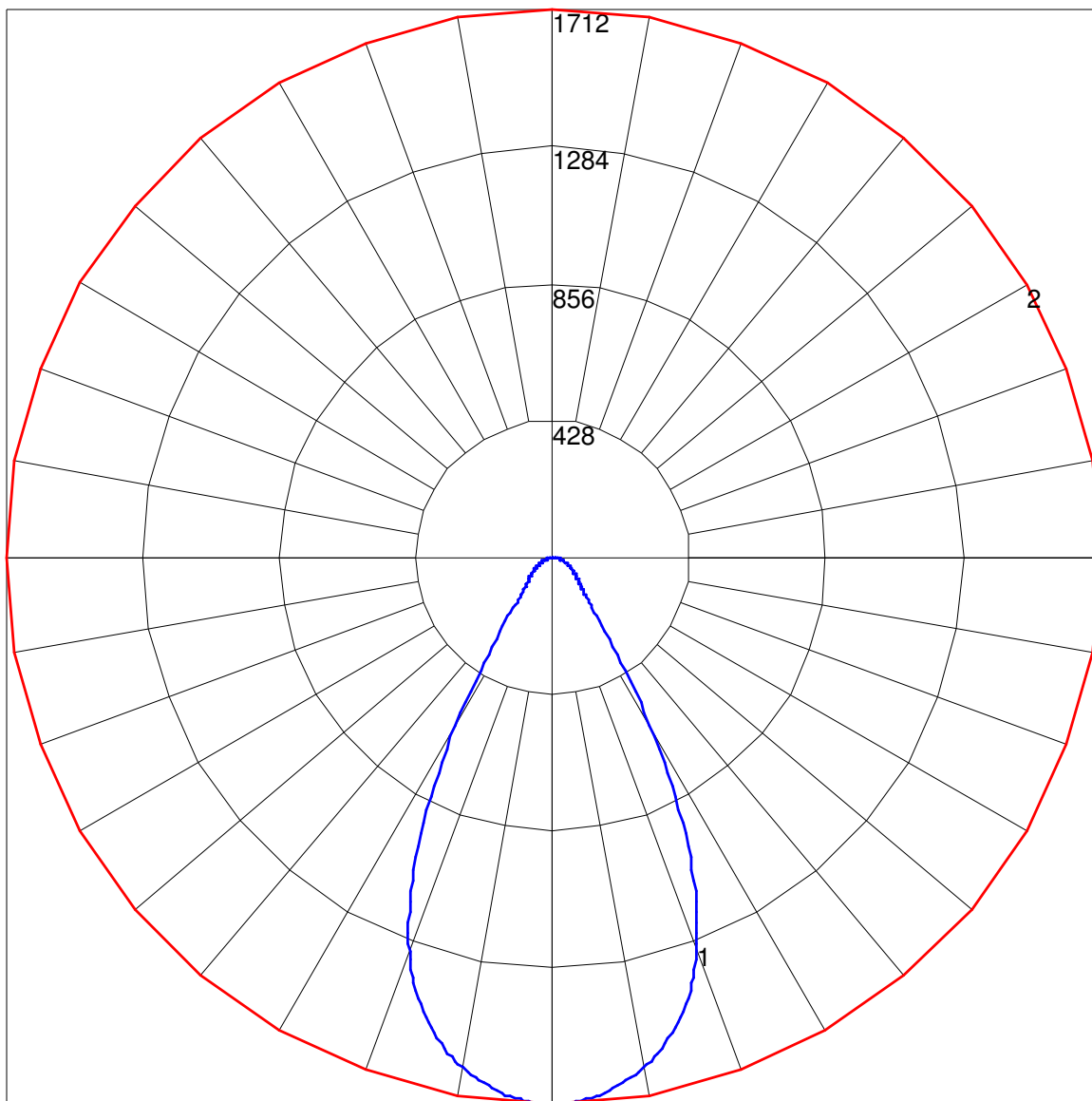
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**UGR TABLE - CORRECTED**

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	20.2	21.3	20.6	21.6	21.9	20.2	21.3	20.6	21.6	21.9
	3H	21.2	22.2	21.6	22.5	22.9	21.2	22.2	21.6	22.5	22.9
	4H	21.4	22.3	21.8	22.7	23.1	21.4	22.3	21.8	22.7	23.1
	6H	21.4	22.3	21.9	22.7	23.0	21.4	22.3	21.9	22.7	23.0
	8H	21.4	22.2	21.9	22.6	23.0	21.4	22.2	21.9	22.6	23.0
	12H	21.4	22.2	21.9	22.6	23.0	21.4	22.2	21.9	22.6	23.0
4H	2H	20.5	21.4	20.9	21.8	22.2	20.5	21.4	20.9	21.8	22.2
	3H	21.7	22.4	22.1	22.9	23.3	21.7	22.4	22.1	22.9	23.3
	4H	21.9	22.6	22.4	23.0	23.5	21.9	22.6	22.4	23.0	23.5
	6H	22.0	22.6	22.5	23.0	23.5	22.0	22.6	22.5	23.0	23.5
	8H	22.0	22.5	22.5	23.0	23.5	22.0	22.5	22.5	23.0	23.5
	12H	22.0	22.5	22.5	23.0	23.4	22.0	22.5	22.5	23.0	23.4
8H	4H	21.9	22.5	22.4	22.9	23.4	21.9	22.5	22.4	22.9	23.4
	6H	22.1	22.5	22.6	23.0	23.5	22.1	22.5	22.6	23.0	23.5
	8H	22.1	22.5	22.6	23.0	23.5	22.1	22.5	22.6	23.0	23.5
	12H	22.1	22.4	22.6	22.9	23.5	22.1	22.4	22.6	22.9	23.5
12H	4H	21.9	22.3	22.4	22.8	23.3	21.9	22.3	22.4	22.8	23.3
	6H	22.0	22.4	22.6	22.9	23.4	22.0	22.4	22.6	22.9	23.4
	8H	22.1	22.4	22.6	22.9	23.5	22.1	22.4	22.6	22.9	23.5

Maximum UGR = 23.5

POLAR GRAPH



Maximum Candela = 1711.967 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.)