

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L8-927-DIM-UNV-LW-OF\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] GEN FROM 13257153.01  
[TESTLAB] UL Verification Services Inc.  
[ISSUEDATE] 2025-05-20  
[MANUFAC] WILLIAMS INDOOR  
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
[LUMCAT] V2DR-L8-927-DIM-UNV-LW-OF\_  
[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, Vandal-Resistant  
[SEARCH\_MOUNTING] Recessed

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	625
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	58
Total Luminaire Watts	10.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.86
Spacing Criterion (90-270)	0.86
Spacing Criterion (Diagonal)	0.78
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	25768	25768	25768
55	22505	22505	22505
65	19225	19225	19225
75	15510	15510	15510
85	8689	8689	8689

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CANDELA TABULATION

	<u>0</u>
0.0	737.132
0.5	736.752
1.0	736.752
1.5	736.372
2.0	735.992
2.5	734.853
3.0	733.714
3.5	732.574
4.0	731.055
4.5	729.156
5.0	727.258
5.5	725.359
6.0	723.460
6.5	721.181
7.0	718.903
7.5	716.624
8.0	713.966
8.5	711.307
9.0	708.269
9.5	705.231
10.0	701.813
10.5	698.015
11.0	694.218
11.5	690.040
12.0	685.863
12.5	680.926
13.0	675.989
13.5	670.672
14.0	664.976
14.5	658.899
15.0	652.443
15.5	645.228
16.0	638.012
16.5	630.037
17.0	621.302
17.5	612.567
18.0	602.693
18.5	592.440
19.0	581.047
19.5	568.894
20.0	556.362
20.5	542.690
21.0	528.638
21.5	513.448
22.0	497.497
22.5	481.167
23.0	464.078
23.5	446.608
24.0	428.759
24.5	410.530
25.0	391.922
25.5	373.503
26.0	354.856
26.5	336.399

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**CANDELA TABULATION - (Cont.)**

27.0	318.208
27.5	300.397
28.0	282.966
28.5	265.952
29.0	249.470
29.5	233.406
30.0	218.329
30.5	204.088
31.0	190.644
31.5	178.112
32.0	166.377
32.5	155.477
33.0	145.490
33.5	136.337
34.0	128.020
34.5	120.425
35.0	113.513
35.5	107.247
36.0	101.588
36.5	96.537
37.0	91.980
37.5	87.917
38.0	84.271
38.5	80.967
39.0	78.005
39.5	75.346
40.0	72.916
40.5	70.751
41.0	68.776
41.5	66.953
42.0	65.282
42.5	63.725
43.0	62.320
43.5	61.029
44.0	59.814
44.5	58.674
45.0	57.573
45.5	56.548
46.0	55.560
46.5	54.611
47.0	53.699
47.5	52.788
48.0	51.914
48.5	51.041
49.0	50.167
49.5	49.332
50.0	48.534
50.5	47.737
51.0	46.901
51.5	46.142
52.0	45.344
52.5	44.585
53.0	43.825
53.5	43.066
54.0	42.306
54.5	41.547

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**CANDELA TABULATION - (Cont.)**

55.0	40.787
55.5	40.028
56.0	39.306
56.5	38.509
57.0	37.787
57.5	37.027
58.0	36.268
58.5	35.508
59.0	34.749
59.5	33.989
60.0	33.230
60.5	32.470
61.0	31.711
61.5	30.913
62.0	30.192
62.5	29.432
63.0	28.635
63.5	27.875
64.0	27.116
64.5	26.394
65.0	25.672
65.5	24.951
66.0	24.229
66.5	23.546
67.0	22.824
67.5	22.179
68.0	21.495
68.5	20.849
69.0	20.204
69.5	19.520
70.0	18.875
70.5	18.229
71.0	17.621
71.5	16.976
72.0	16.330
72.5	15.722
73.0	15.077
73.5	14.469
74.0	13.900
74.5	13.292
75.0	12.684
75.5	12.115
76.0	11.545
76.5	10.975
77.0	10.444
77.5	9.874
78.0	9.342
78.5	8.811
79.0	8.279
79.5	7.747
80.0	7.254
80.5	6.722
81.0	6.228
81.5	5.735
82.0	5.241
82.5	4.747

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CANDELA TABULATION - (Cont.)

83.0	4.291
83.5	3.798
84.0	3.342
84.5	2.848
85.0	2.393
85.5	1.899
86.0	1.405
86.5	1.063
87.0	0.760
87.5	0.456
88.0	0.304
88.5	0.228
89.0	0.152
89.5	0.114
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
128.0	0.000
128.5	0.000
129.0	0.000
129.5	0.000
130.0	0.000
130.5	0.000
131.0	0.000
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132.0	0.000
132.5	0.000
133.0	0.000
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
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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
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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	249.21	N.A.	39.90
0-30	424.86	N.A.	68.00
0-40	501.18	N.A.	80.20
0-60	582.75	N.A.	93.30
0-80	621.79	N.A.	99.50
0-90	624.80	N.A.	100.00
10-90	556.17	N.A.	89.00
20-40	251.97	N.A.	40.30
20-50	297.06	N.A.	47.50
40-70	107.10	N.A.	17.10
60-80	39.04	N.A.	6.20
70-80	13.52	N.A.	2.20
80-90	3.01	N.A.	0.50
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	624.80	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	68.63
10-20	180.58
20-30	175.65
30-40	76.31
40-50	45.09
50-60	36.48
60-70	25.53
70-80	13.52
80-90	3.01
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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76
4	94	86	80	75	93	85	79	75	83	78	74	81	76	73	79	75	72	70
5	89	80	74	69	88	79	73	69	77	72	68	76	71	68	74	70	67	65
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61
7	81	71	64	60	79	70	64	60	69	63	59	67	63	59	66	62	59	57
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54
9	73	63	57	53	72	62	57	53	62	56	52	61	56	52	60	55	52	51
10	70	60	54	50	69	59	54	50	58	53	49	58	53	49	57	52	49	48

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**UGR TABLE - CORRECTED**

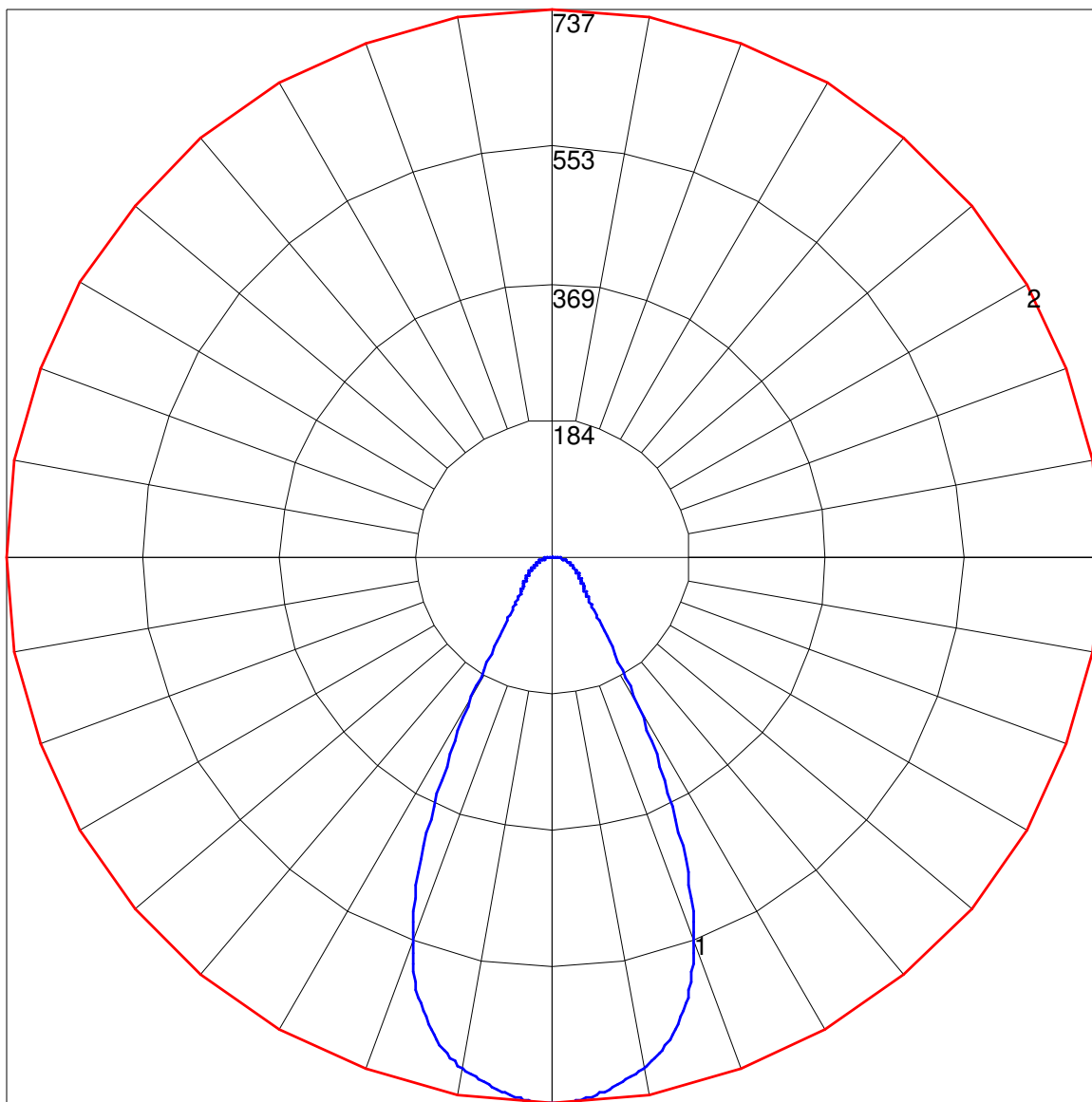
Reflectances

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	19.1	20.2	19.4	20.6	20.9	19.1	20.2	19.4	20.6	20.9
	3H	20.6	21.6	21.0	21.9	22.3	20.6	21.6	21.0	21.9	22.3
	4H	21.1	22.1	21.5	22.4	22.8	21.1	22.1	21.5	22.4	22.8
	6H	21.4	22.3	21.8	22.7	23.1	21.4	22.3	21.8	22.7	23.1
	8H	21.5	22.4	21.9	22.8	23.2	21.5	22.4	21.9	22.8	23.2
	12H	21.5	22.4	22.0	22.7	23.2	21.5	22.4	22.0	22.7	23.2
4H	2H	19.6	20.5	20.0	20.9	21.3	19.6	20.5	20.0	20.9	21.3
	3H	21.2	22.0	21.6	22.4	22.8	21.2	22.0	21.6	22.4	22.8
	4H	21.9	22.6	22.3	23.0	23.4	21.9	22.6	22.3	23.0	23.4
	6H	22.3	22.9	22.8	23.4	23.9	22.3	22.9	22.8	23.4	23.9
	8H	22.4	23.0	22.9	23.5	23.9	22.4	23.0	22.9	23.5	23.9
	12H	22.5	23.0	23.0	23.5	24.0	22.5	23.0	23.0	23.5	24.0
8H	4H	22.1	22.6	22.5	23.1	23.6	22.1	22.6	22.5	23.1	23.6
	6H	22.6	23.1	23.1	23.6	24.1	22.6	23.1	23.1	23.6	24.1
	8H	22.8	23.2	23.3	23.7	24.2	22.8	23.2	23.3	23.7	24.2
	12H	22.9	23.3	23.4	23.8	24.3	22.9	23.3	23.4	23.8	24.3
12H	4H	22.0	22.6	22.5	23.0	23.5	22.0	22.6	22.5	23.0	23.5
	6H	22.6	23.1	23.2	23.5	24.1	22.6	23.1	23.2	23.5	24.1
	8H	22.9	23.2	23.4	23.7	24.3	22.9	23.2	23.4	23.7	24.3

Maximum UGR = 24.3

POLAR GRAPH



Maximum Candela = 737.132 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.)