

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L8-950-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.  
[ISSUEDATE] 2025-05-20  
[MANUFAC] WILLIAMS INDOOR  
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
[LUMCAT] V2DR-L8-950-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 met  
[MORE] hod 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	702
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	66
Total Luminaire Watts	10.7
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	25175	25175	25175
55	19921	19921	19921
65	14891	14891	14891
75	7754	7754	7754
85	4699	4699	4699

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CANDELA TABULATION

	<u>0</u>
0.0	836.822
0.5	836.822
1.0	836.390
1.5	835.959
2.0	835.959
2.5	835.096
3.0	833.802
3.5	832.077
4.0	830.351
4.5	828.626
5.0	826.038
5.5	823.881
6.0	821.293
6.5	818.274
7.0	815.254
7.5	812.235
8.0	809.215
8.5	805.764
9.0	801.882
9.5	798.431
10.0	794.549
10.5	790.236
11.0	785.491
11.5	780.746
12.0	775.570
12.5	770.394
13.0	764.786
13.5	758.747
14.0	752.277
14.5	745.807
15.0	738.474
15.5	731.141
16.0	722.945
16.5	714.749
17.0	706.122
17.5	697.064
18.0	687.574
18.5	677.222
19.0	666.438
19.5	654.791
20.0	642.714
20.5	630.204
21.0	616.832
21.5	603.029
22.0	587.932
22.5	572.835
23.0	556.875
23.5	540.483
24.0	523.229
24.5	505.975
25.0	488.290
25.5	469.742
26.0	450.762
26.5	431.783

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**CANDELA TABULATION - (Cont.)**

27.0	412.933
27.5	393.996
28.0	374.887
28.5	355.865
29.0	336.411
29.5	316.828
30.0	297.417
30.5	278.308
31.0	259.458
31.5	241.255
32.0	223.742
32.5	207.178
33.0	191.822
33.5	177.587
34.0	164.345
34.5	152.224
35.0	141.224
35.5	131.131
36.0	121.986
36.5	113.790
37.0	106.501
37.5	99.987
38.0	94.078
38.5	88.815
39.0	84.200
39.5	80.145
40.0	76.522
40.5	73.373
41.0	70.569
41.5	68.067
42.0	65.824
42.5	63.840
43.0	62.028
43.5	60.432
44.0	58.923
44.5	57.542
45.0	56.248
45.5	54.997
46.0	53.833
46.5	52.668
47.0	51.590
47.5	50.511
48.0	49.433
48.5	48.398
49.0	47.362
49.5	46.327
50.0	45.335
50.5	44.386
51.0	43.394
51.5	42.445
52.0	41.539
52.5	40.590
53.0	39.684
53.5	38.778
54.0	37.873
54.5	36.967

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CANDELA TABULATION - (Cont.)

55.0	36.104
55.5	35.241
56.0	34.379
56.5	33.516
57.0	32.653
57.5	31.834
58.0	30.971
58.5	30.151
59.0	29.332
59.5	28.555
60.0	27.736
60.5	26.916
61.0	26.097
61.5	25.320
62.0	24.501
62.5	23.724
63.0	22.948
63.5	22.171
64.0	21.395
64.5	20.619
65.0	19.885
65.5	19.152
66.0	18.419
66.5	17.642
67.0	16.952
67.5	16.262
68.0	15.529
68.5	14.838
69.0	14.148
69.5	13.458
70.0	12.811
70.5	12.121
71.0	11.474
71.5	10.784
72.0	10.137
72.5	9.490
73.0	8.843
73.5	8.196
74.0	7.592
74.5	6.945
75.0	6.341
75.5	5.780
76.0	5.219
76.5	4.788
77.0	4.400
77.5	4.055
78.0	3.796
78.5	3.580
79.0	3.408
79.5	3.235
80.0	3.019
80.5	2.847
81.0	2.674
81.5	2.502
82.0	2.286
82.5	2.114

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CANDELA TABULATION - (Cont.)

83.0	1.984
83.5	1.812
84.0	1.639
84.5	1.467
85.0	1.294
85.5	1.165
86.0	0.992
86.5	0.863
87.0	0.690
87.5	0.561
88.0	0.431
88.5	0.302
89.0	0.173
89.5	0.129
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
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127.0	0.000
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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
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147.0	0.000
147.5	0.000
148.0	0.000
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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	283.04	N.A.	40.30
0-30	501.05	N.A.	71.40
0-40	596.98	N.A.	85.00
0-60	673.65	N.A.	95.90
0-80	700.68	N.A.	99.80
0-90	702.17	N.A.	100.00
10-90	624.34	N.A.	88.90
20-40	313.94	N.A.	44.70
20-50	358.26	N.A.	51.00
40-70	96.44	N.A.	13.70
60-80	27.03	N.A.	3.80
70-80	7.26	N.A.	1.00
80-90	1.49	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	702.17	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	77.84
10-20	205.20
20-30	218.01
30-40	95.93
40-50	44.32
50-60	32.36
60-70	19.76
70-80	7.26
80-90	1.49
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	111	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	86	83	80	79
4	96	88	82	78	94	87	81	77	85	80	76	82	78	75	81	77	74	73
5	91	82	76	72	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	73	66	62	81	72	66	62	71	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	55	63	58	54	62	58	54	62	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**

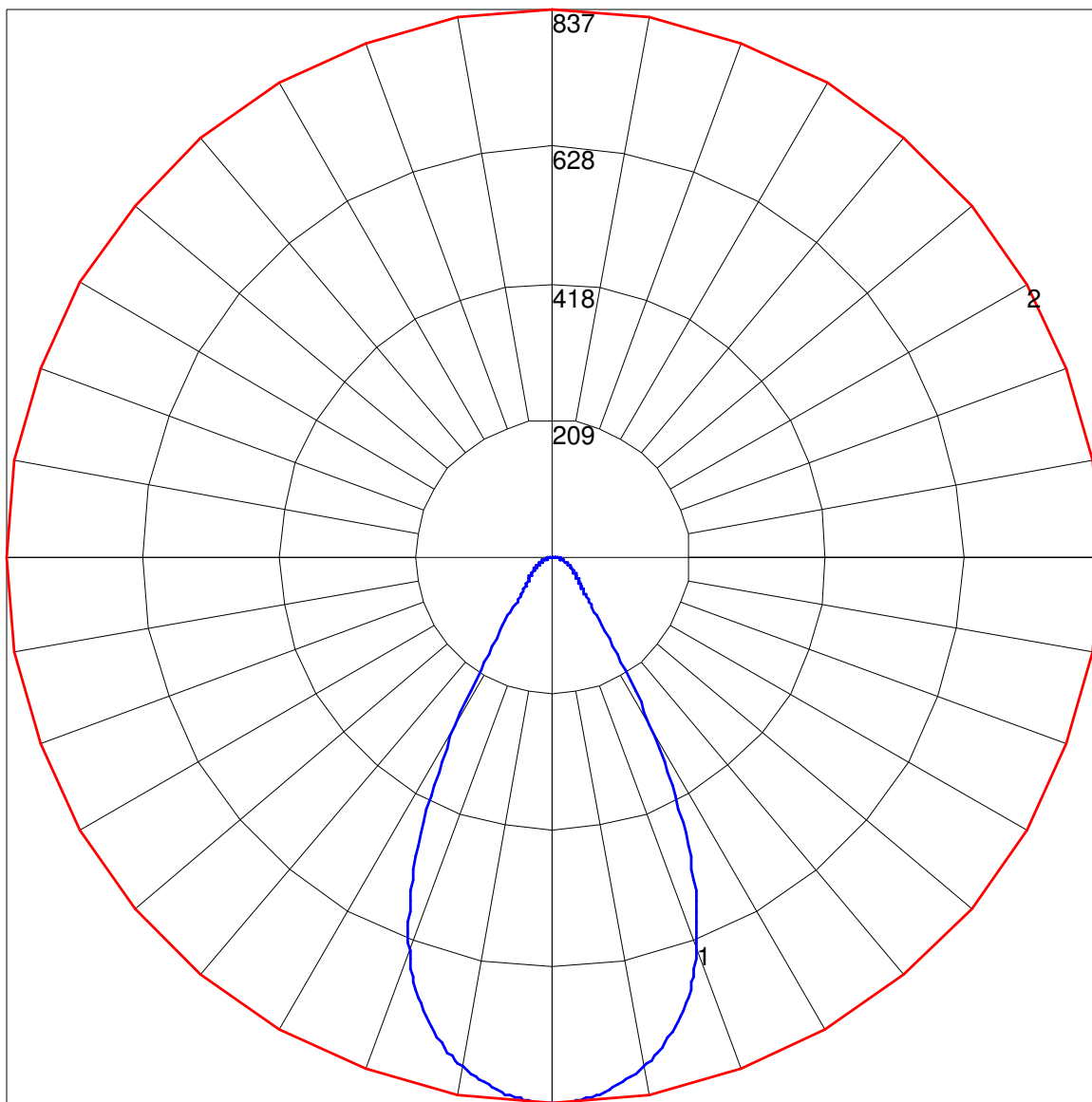
Reflectances

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	17.7	18.8	18.1	19.1	19.4	17.7	18.8	18.1	19.1	19.4
	3H	18.7	19.7	19.1	20.0	20.4	18.7	19.7	19.1	20.0	20.4
	4H	18.9	19.8	19.3	20.2	20.6	18.9	19.8	19.3	20.2	20.6
	6H	18.9	19.8	19.4	20.2	20.6	18.9	19.8	19.4	20.2	20.6
	8H	18.9	19.7	19.4	20.1	20.5	18.9	19.7	19.4	20.1	20.5
	12H	18.9	19.7	19.4	20.1	20.5	18.9	19.7	19.4	20.1	20.5
4H	2H	18.0	18.9	18.4	19.3	19.7	18.0	18.9	18.4	19.3	19.7
	3H	19.2	19.9	19.6	20.4	20.8	19.2	19.9	19.6	20.4	20.8
	4H	19.4	20.1	19.9	20.5	21.0	19.4	20.1	19.9	20.5	21.0
	6H	19.5	20.1	20.0	20.5	21.0	19.5	20.1	20.0	20.5	21.0
	8H	19.5	20.0	20.0	20.5	21.0	19.5	20.0	20.0	20.5	21.0
	12H	19.5	20.0	20.0	20.5	20.9	19.5	20.0	20.0	20.5	20.9
8H	4H	19.4	20.0	19.9	20.4	20.9	19.4	20.0	19.9	20.4	20.9
	6H	19.6	20.0	20.1	20.5	21.0	19.6	20.0	20.1	20.5	21.0
	8H	19.6	20.0	20.1	20.5	21.0	19.6	20.0	20.1	20.5	21.0
	12H	19.6	19.9	20.1	20.4	21.0	19.6	19.9	20.1	20.4	21.0
12H	4H	19.4	19.9	19.9	20.3	20.8	19.4	19.9	19.9	20.3	20.8
	6H	19.5	19.9	20.1	20.4	20.9	19.5	19.9	20.1	20.4	20.9
	8H	19.6	19.9	20.1	20.4	21.0	19.6	19.9	20.1	20.4	21.0

Maximum UGR = 21.0

POLAR GRAPH



Maximum Candela = 836.822 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.)