

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L8-840-DIM-UNV-RW-OF-CS\_.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-L8-840-DIM-UNV-RW-OF-CS\_  
[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	790
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	74
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	28316	28316	28316
55	22407	22407	22407
65	16749	16749	16749
75	8721	8721	8721
85	5287	5287	5287

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CANDELA TABULATION

	<u>0</u>
0.0	941.234
0.5	941.234
1.0	940.749
1.5	940.264
2.0	940.264
2.5	939.293
3.0	937.838
3.5	935.897
4.0	933.957
4.5	932.016
5.0	929.105
5.5	926.679
6.0	923.768
6.5	920.372
7.0	916.975
7.5	913.579
8.0	910.183
8.5	906.302
9.0	901.935
9.5	898.054
10.0	893.687
10.5	888.835
11.0	883.499
11.5	878.162
12.0	872.340
12.5	866.518
13.0	860.210
13.5	853.418
14.0	846.140
14.5	838.863
15.0	830.615
15.5	822.367
16.0	813.149
16.5	803.930
17.0	794.227
17.5	784.038
18.0	773.365
18.5	761.720
19.0	749.591
19.5	736.491
20.0	722.907
20.5	708.837
21.0	693.796
21.5	678.271
22.0	661.290
22.5	644.309
23.0	626.357
23.5	607.921
24.0	588.514
24.5	569.107
25.0	549.215
25.5	528.353
26.0	507.005
26.5	485.657

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**CANDELA TABULATION - (Cont.)**

<b>27.0</b>	464.455
<b>27.5</b>	443.156
<b>28.0</b>	421.663
<b>28.5</b>	400.267
<b>29.0</b>	378.386
<b>29.5</b>	356.359
<b>30.0</b>	334.526
<b>30.5</b>	313.033
<b>31.0</b>	291.831
<b>31.5</b>	271.357
<b>32.0</b>	251.659
<b>32.5</b>	233.028
<b>33.0</b>	215.756
<b>33.5</b>	199.745
<b>34.0</b>	184.851
<b>34.5</b>	171.217
<b>35.0</b>	158.845
<b>35.5</b>	147.492
<b>36.0</b>	137.207
<b>36.5</b>	127.988
<b>37.0</b>	119.789
<b>37.5</b>	112.463
<b>38.0</b>	105.816
<b>38.5</b>	99.897
<b>39.0</b>	94.706
<b>39.5</b>	90.145
<b>40.0</b>	86.070
<b>40.5</b>	82.528
<b>41.0</b>	79.374
<b>41.5</b>	76.560
<b>42.0</b>	74.037
<b>42.5</b>	71.805
<b>43.0</b>	69.768
<b>43.5</b>	67.973
<b>44.0</b>	66.275
<b>44.5</b>	64.722
<b>45.0</b>	63.266
<b>45.5</b>	61.859
<b>46.0</b>	60.549
<b>46.5</b>	59.240
<b>47.0</b>	58.027
<b>47.5</b>	56.814
<b>48.0</b>	55.601
<b>48.5</b>	54.436
<b>49.0</b>	53.272
<b>49.5</b>	52.107
<b>50.0</b>	50.992
<b>50.5</b>	49.924
<b>51.0</b>	48.808
<b>51.5</b>	47.741
<b>52.0</b>	46.722
<b>52.5</b>	45.655
<b>53.0</b>	44.636
<b>53.5</b>	43.617
<b>54.0</b>	42.598
<b>54.5</b>	41.579

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**CANDELA TABULATION - (Cont.)**

55.0	40.609
55.5	39.639
56.0	38.668
56.5	37.698
57.0	36.728
57.5	35.806
58.0	34.835
58.5	33.914
59.0	32.992
59.5	32.118
60.0	31.197
60.5	30.275
61.0	29.353
61.5	28.480
62.0	27.558
62.5	26.684
63.0	25.811
63.5	24.938
64.0	24.065
64.5	23.191
65.0	22.366
65.5	21.542
66.0	20.717
66.5	19.844
67.0	19.067
67.5	18.291
68.0	17.466
68.5	16.690
69.0	15.914
69.5	15.137
70.0	14.410
70.5	13.633
71.0	12.906
71.5	12.129
72.0	11.402
72.5	10.674
73.0	9.946
73.5	9.218
74.0	8.539
74.5	7.811
75.0	7.132
75.5	6.501
76.0	5.871
76.5	5.385
77.0	4.949
77.5	4.561
78.0	4.270
78.5	4.027
79.0	3.833
79.5	3.639
80.0	3.396
80.5	3.202
81.0	3.008
81.5	2.814
82.0	2.571
82.5	2.377

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CANDELA TABULATION - (Cont.)

83.0	2.232
83.5	2.038
84.0	1.844
84.5	1.650
85.0	1.456
85.5	1.310
86.0	1.116
86.5	0.970
87.0	0.776
87.5	0.631
88.0	0.485
88.5	0.340
89.0	0.194
89.5	0.146
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
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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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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
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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	318.35	N.A.	40.30
0-30	563.57	N.A.	71.40
0-40	671.46	N.A.	85.00
0-60	757.71	N.A.	95.90
0-80	788.11	N.A.	99.80
0-90	789.79	N.A.	100.00
10-90	702.24	N.A.	88.90
20-40	353.11	N.A.	44.70
20-50	402.96	N.A.	51.00
40-70	108.47	N.A.	13.70
60-80	30.40	N.A.	3.80
70-80	8.17	N.A.	1.00
80-90	1.68	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	789.79	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	87.55
10-20	230.80
20-30	245.22
30-40	107.89
40-50	49.85
50-60	36.40
60-70	22.23
70-80	8.17
80-90	1.68
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	55	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**

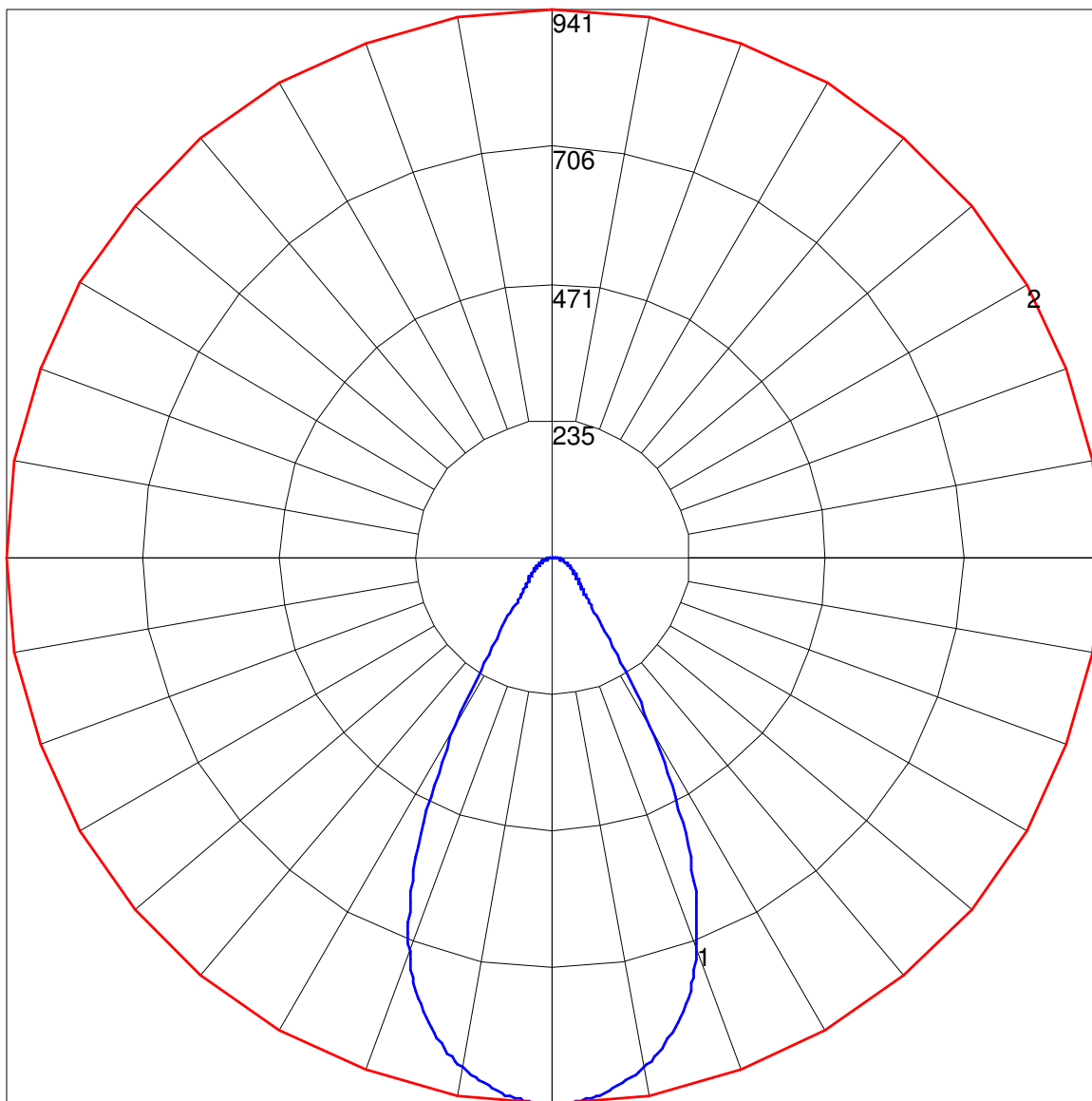
Reflectances

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	18.1	19.2	18.5	19.5	19.8	18.1	19.2	18.5	19.5	19.8
	3H	19.1	20.1	19.5	20.4	20.8	19.1	20.1	19.5	20.4	20.8
	4H	19.3	20.2	19.7	20.6	21.0	19.3	20.2	19.7	20.6	21.0
	6H	19.4	20.2	19.8	20.6	21.0	19.4	20.2	19.8	20.6	21.0
	8H	19.4	20.1	19.8	20.5	20.9	19.4	20.1	19.8	20.5	20.9
	12H	19.3	20.1	19.8	20.5	20.9	19.3	20.1	19.8	20.5	20.9
4H	2H	18.4	19.3	18.8	19.7	20.1	18.4	19.3	18.8	19.7	20.1
	3H	19.6	20.4	20.0	20.8	21.2	19.6	20.4	20.0	20.8	21.2
	4H	19.8	20.5	20.3	20.9	21.4	19.8	20.5	20.3	20.9	21.4
	6H	19.9	20.5	20.4	20.9	21.4	19.9	20.5	20.4	20.9	21.4
	8H	19.9	20.4	20.4	20.9	21.4	19.9	20.4	20.4	20.9	21.4
	12H	19.9	20.4	20.4	20.9	21.3	19.9	20.4	20.4	20.9	21.3
8H	4H	19.8	20.4	20.3	20.8	21.3	19.8	20.4	20.3	20.8	21.3
	6H	20.0	20.4	20.5	20.9	21.4	20.0	20.4	20.5	20.9	21.4
	8H	20.0	20.4	20.5	20.9	21.4	20.0	20.4	20.5	20.9	21.4
	12H	20.0	20.4	20.5	20.8	21.4	20.0	20.4	20.5	20.8	21.4
12H	4H	19.8	20.3	20.3	20.7	21.2	19.8	20.3	20.3	20.7	21.2
	6H	19.9	20.3	20.5	20.8	21.3	19.9	20.3	20.5	20.8	21.3
	8H	20.0	20.3	20.5	20.8	21.4	20.0	20.3	20.5	20.8	21.4

Maximum UGR = 21.4

POLAR GRAPH



Maximum Candela = 941.234 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.)