

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L5-950-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.  
[ISSUE DATE] 2025-05-20  
[MANUFAC] WILLIAMS INDOOR  
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
[LUMCAT] V2DR-L5-950-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 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	431
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	64
Total Luminaire Watts	6.7
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	15458	15458	15458
55	12232	12232	12232
65	9144	9144	9144
75	4762	4762	4762
85	2887	2887	2887

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CANDELA TABULATION

	<u>0</u>
0.0	513.838
0.5	513.838
1.0	513.573
1.5	513.308
2.0	513.308
2.5	512.778
3.0	511.984
3.5	510.924
4.0	509.865
4.5	508.805
5.0	507.216
5.5	505.892
6.0	504.303
6.5	502.449
7.0	500.595
7.5	498.741
8.0	496.887
8.5	494.768
9.0	492.384
9.5	490.265
10.0	487.881
10.5	485.232
11.0	482.319
11.5	479.405
12.0	476.227
12.5	473.049
13.0	469.605
13.5	465.897
14.0	461.924
14.5	457.951
15.0	453.449
15.5	448.946
16.0	443.914
16.5	438.881
17.0	433.584
17.5	428.022
18.0	422.195
18.5	415.838
19.0	409.216
19.5	402.065
20.0	394.649
20.5	386.968
21.0	378.757
21.5	370.281
22.0	361.011
22.5	351.741
23.0	341.941
23.5	331.876
24.0	321.281
24.5	310.687
25.0	299.827
25.5	288.438
26.0	276.784
26.5	265.130

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**CANDELA TABULATION - (Cont.)**

<b>27.0</b>	253.555
<b>27.5</b>	241.928
<b>28.0</b>	230.194
<b>28.5</b>	218.514
<b>29.0</b>	206.568
<b>29.5</b>	194.543
<b>30.0</b>	182.624
<b>30.5</b>	170.891
<b>31.0</b>	159.316
<b>31.5</b>	148.139
<b>32.0</b>	137.385
<b>32.5</b>	127.215
<b>33.0</b>	117.785
<b>33.5</b>	109.045
<b>34.0</b>	100.914
<b>34.5</b>	93.471
<b>35.0</b>	86.717
<b>35.5</b>	80.519
<b>36.0</b>	74.904
<b>36.5</b>	69.871
<b>37.0</b>	65.395
<b>37.5</b>	61.396
<b>38.0</b>	57.767
<b>38.5</b>	54.536
<b>39.0</b>	51.702
<b>39.5</b>	49.212
<b>40.0</b>	46.987
<b>40.5</b>	45.054
<b>41.0</b>	43.332
<b>41.5</b>	41.796
<b>42.0</b>	40.418
<b>42.5</b>	39.200
<b>43.0</b>	38.088
<b>43.5</b>	37.108
<b>44.0</b>	36.181
<b>44.5</b>	35.333
<b>45.0</b>	34.538
<b>45.5</b>	33.770
<b>46.0</b>	33.055
<b>46.5</b>	32.340
<b>47.0</b>	31.678
<b>47.5</b>	31.016
<b>48.0</b>	30.354
<b>48.5</b>	29.718
<b>49.0</b>	29.082
<b>49.5</b>	28.446
<b>50.0</b>	27.837
<b>50.5</b>	27.255
<b>51.0</b>	26.645
<b>51.5</b>	26.063
<b>52.0</b>	25.506
<b>52.5</b>	24.924
<b>53.0</b>	24.368
<b>53.5</b>	23.811
<b>54.0</b>	23.255
<b>54.5</b>	22.699

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**CANDELA TABULATION - (Cont.)**

55.0	22.169
55.5	21.639
56.0	21.110
56.5	20.580
57.0	20.050
57.5	19.547
58.0	19.017
58.5	18.514
59.0	18.011
59.5	17.534
60.0	17.031
60.5	16.528
61.0	16.024
61.5	15.548
62.0	15.044
62.5	14.568
63.0	14.091
63.5	13.614
64.0	13.137
64.5	12.661
65.0	12.210
65.5	11.760
66.0	11.310
66.5	10.833
67.0	10.409
67.5	9.985
68.0	9.535
68.5	9.111
69.0	8.688
69.5	8.264
70.0	7.866
70.5	7.443
71.0	7.045
71.5	6.622
72.0	6.224
72.5	5.827
73.0	5.430
73.5	5.032
74.0	4.662
74.5	4.264
75.0	3.894
75.5	3.549
76.0	3.205
76.5	2.940
77.0	2.702
77.5	2.490
78.0	2.331
78.5	2.198
79.0	2.092
79.5	1.986
80.0	1.854
80.5	1.748
81.0	1.642
81.5	1.536
82.0	1.404
82.5	1.298

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CANDELA TABULATION - (Cont.)

83.0	1.218
83.5	1.112
84.0	1.006
84.5	0.901
85.0	0.795
85.5	0.715
86.0	0.609
86.5	0.530
87.0	0.424
87.5	0.344
88.0	0.265
88.5	0.185
89.0	0.106
89.5	0.079
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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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
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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
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157.5	0.000
158.0	0.000
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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	173.80	N.A.	40.30
0-30	307.66	N.A.	71.40
0-40	366.57	N.A.	85.00
0-60	413.65	N.A.	95.90
0-80	430.24	N.A.	99.80
0-90	431.16	N.A.	100.00
10-90	383.36	N.A.	88.90
20-40	192.77	N.A.	44.70
20-50	219.98	N.A.	51.00
40-70	59.22	N.A.	13.70
60-80	16.60	N.A.	3.90
70-80	4.46	N.A.	1.00
80-90	0.92	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	431.16	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	47.80
10-20	126.00
20-30	133.87
30-40	58.90
40-50	27.21
50-60	19.87
60-70	12.14
70-80	4.46
80-90	0.92
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	83	79	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**

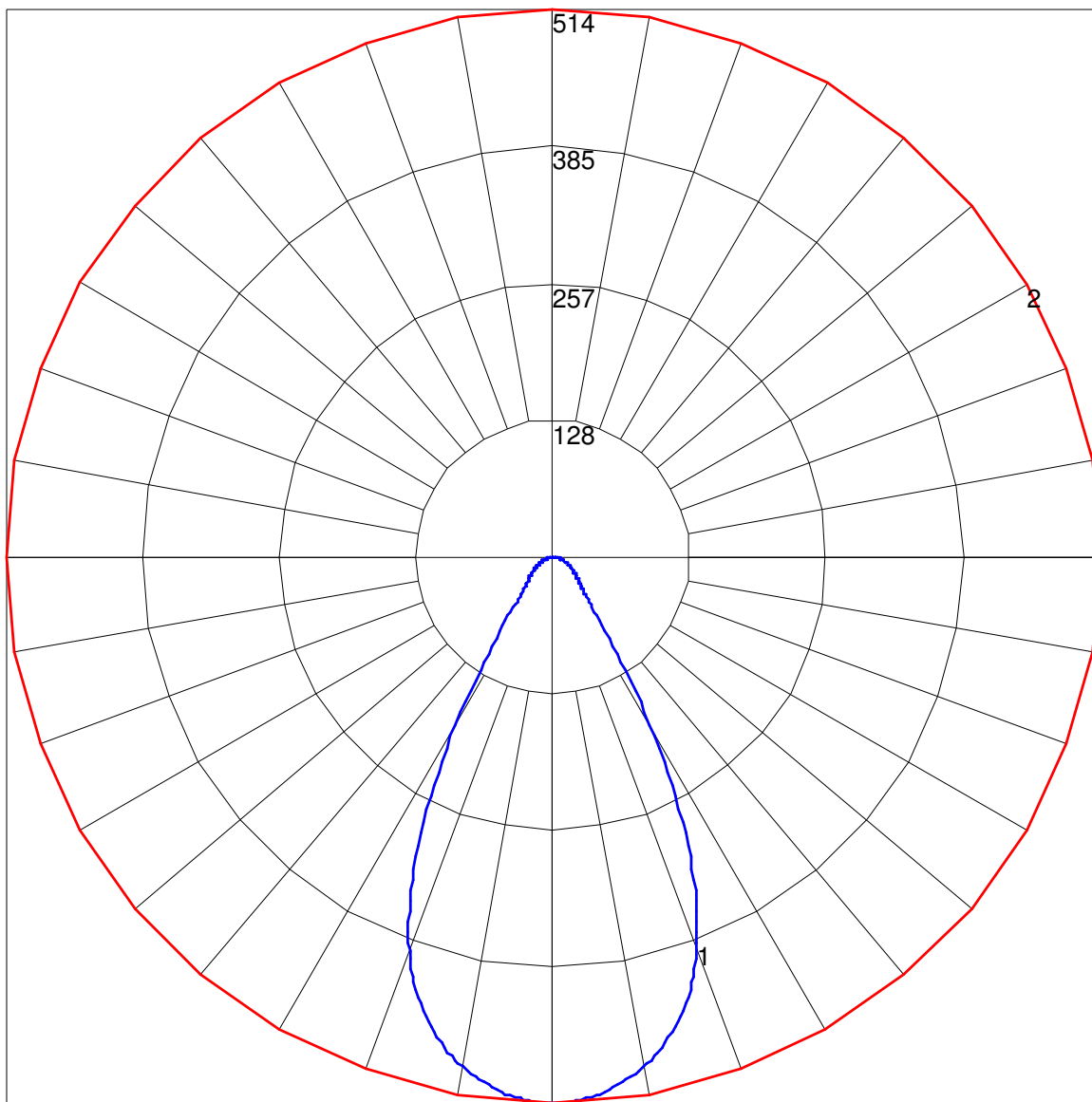
Reflectances

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	16.0	17.1	16.4	17.4	17.7	16.0	17.1	16.4	17.4	17.7
	3H	17.0	18.0	17.4	18.3	18.7	17.0	18.0	17.4	18.3	18.7
	4H	17.2	18.1	17.6	18.5	18.9	17.2	18.1	17.6	18.5	18.9
	6H	17.2	18.1	17.7	18.5	18.8	17.2	18.1	17.7	18.5	18.8
	8H	17.2	18.0	17.7	18.4	18.8	17.2	18.0	17.7	18.4	18.8
	12H	17.2	18.0	17.7	18.4	18.8	17.2	18.0	17.7	18.4	18.8
4H	2H	16.3	17.2	16.7	17.6	18.0	16.3	17.2	16.7	17.6	18.0
	3H	17.5	18.2	17.9	18.7	19.1	17.5	18.2	17.9	18.7	19.1
	4H	17.7	18.4	18.2	18.8	19.3	17.7	18.4	18.2	18.8	19.3
	6H	17.8	18.4	18.3	18.8	19.3	17.8	18.4	18.3	18.8	19.3
	8H	17.8	18.3	18.3	18.8	19.3	17.8	18.3	18.3	18.8	19.3
	12H	17.8	18.3	18.3	18.8	19.2	17.8	18.3	18.3	18.8	19.2
8H	4H	17.7	18.3	18.2	18.7	19.2	17.7	18.3	18.2	18.7	19.2
	6H	17.9	18.3	18.4	18.8	19.3	17.9	18.3	18.4	18.8	19.3
	8H	17.9	18.3	18.4	18.8	19.3	17.9	18.3	18.4	18.8	19.3
	12H	17.9	18.2	18.4	18.7	19.3	17.9	18.2	18.4	18.7	19.3
12H	4H	17.7	18.1	18.2	18.6	19.1	17.7	18.1	18.2	18.6	19.1
	6H	17.8	18.2	18.4	18.7	19.2	17.8	18.2	18.4	18.7	19.2
	8H	17.9	18.2	18.4	18.7	19.3	17.9	18.2	18.4	18.7	19.3

Maximum UGR = 19.3

POLAR GRAPH



Maximum Candela = 513.838 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.)