

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L5-927-DIM-UNV-RW-OF-BL\_.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-L5-927-DIM-UNV-RW-OF-BL\_  
[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	294
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	44
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	10547	10547	10547
55	8345	8345	8345
65	6239	6239	6239
75	3248	3248	3248
85	1968	1968	1968

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CANDELA TABULATION

	<u>0</u>
0.0	350.578
0.5	350.578
1.0	350.397
1.5	350.216
2.0	350.216
2.5	349.855
3.0	349.313
3.5	348.590
4.0	347.867
4.5	347.144
5.0	346.060
5.5	345.156
6.0	344.072
6.5	342.807
7.0	341.542
7.5	340.277
8.0	339.012
8.5	337.566
9.0	335.940
9.5	334.494
10.0	332.868
10.5	331.061
11.0	329.073
11.5	327.085
12.0	324.917
12.5	322.748
13.0	320.399
13.5	317.869
14.0	315.158
14.5	312.448
15.0	309.376
15.5	306.304
16.0	302.870
16.5	299.437
17.0	295.822
17.5	292.028
18.0	288.052
18.5	283.715
19.0	279.197
19.5	274.318
20.0	269.258
20.5	264.017
21.0	258.415
21.5	252.633
22.0	246.308
22.5	239.983
23.0	233.297
23.5	226.430
24.0	219.201
24.5	211.973
25.0	204.564
25.5	196.793
26.0	188.842
26.5	180.891

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**CANDELA TABULATION - (Cont.)**

<b>27.0</b>	172.994
<b>27.5</b>	165.061
<b>28.0</b>	157.055
<b>28.5</b>	149.086
<b>29.0</b>	140.936
<b>29.5</b>	132.732
<b>30.0</b>	124.600
<b>30.5</b>	116.594
<b>31.0</b>	108.697
<b>31.5</b>	101.071
<b>32.0</b>	93.734
<b>32.5</b>	86.795
<b>33.0</b>	80.362
<b>33.5</b>	74.398
<b>34.0</b>	68.851
<b>34.5</b>	63.773
<b>35.0</b>	59.164
<b>35.5</b>	54.936
<b>36.0</b>	51.105
<b>36.5</b>	47.671
<b>37.0</b>	44.617
<b>37.5</b>	41.889
<b>38.0</b>	39.413
<b>38.5</b>	37.208
<b>39.0</b>	35.275
<b>39.5</b>	33.576
<b>40.0</b>	32.058
<b>40.5</b>	30.739
<b>41.0</b>	29.564
<b>41.5</b>	28.516
<b>42.0</b>	27.576
<b>42.5</b>	26.745
<b>43.0</b>	25.986
<b>43.5</b>	25.317
<b>44.0</b>	24.685
<b>44.5</b>	24.107
<b>45.0</b>	23.565
<b>45.5</b>	23.041
<b>46.0</b>	22.553
<b>46.5</b>	22.065
<b>47.0</b>	21.613
<b>47.5</b>	21.161
<b>48.0</b>	20.709
<b>48.5</b>	20.276
<b>49.0</b>	19.842
<b>49.5</b>	19.408
<b>50.0</b>	18.993
<b>50.5</b>	18.595
<b>51.0</b>	18.179
<b>51.5</b>	17.782
<b>52.0</b>	17.402
<b>52.5</b>	17.005
<b>53.0</b>	16.625
<b>53.5</b>	16.246
<b>54.0</b>	15.866
<b>54.5</b>	15.487

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**CANDELA TABULATION - (Cont.)**

55.0	15.125
55.5	14.764
56.0	14.403
56.5	14.041
57.0	13.680
57.5	13.336
58.0	12.975
58.5	12.632
59.0	12.288
59.5	11.963
60.0	11.620
60.5	11.276
61.0	10.933
61.5	10.608
62.0	10.264
62.5	9.939
63.0	9.614
63.5	9.288
64.0	8.963
64.5	8.638
65.0	8.331
65.5	8.024
66.0	7.716
66.5	7.391
67.0	7.102
67.5	6.813
68.0	6.506
68.5	6.216
69.0	5.927
69.5	5.638
70.0	5.367
70.5	5.078
71.0	4.807
71.5	4.518
72.0	4.247
72.5	3.976
73.0	3.705
73.5	3.433
74.0	3.180
74.5	2.909
75.0	2.656
75.5	2.422
76.0	2.187
76.5	2.006
77.0	1.843
77.5	1.699
78.0	1.590
78.5	1.500
79.0	1.428
79.5	1.355
80.0	1.265
80.5	1.193
81.0	1.120
81.5	1.048
82.0	0.958
82.5	0.885

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CANDELA TABULATION - (Cont.)

83.0	0.831
83.5	0.759
84.0	0.687
84.5	0.614
85.0	0.542
85.5	0.488
86.0	0.416
86.5	0.361
87.0	0.289
87.5	0.235
88.0	0.181
88.5	0.126
89.0	0.072
89.5	0.054
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

IES INDOOR REPORT  
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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
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124.5	0.000
125.0	0.000
125.5	0.000
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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
131.5	0.000
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
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
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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	118.58	N.A.	40.30
0-30	209.91	N.A.	71.40
0-40	250.10	N.A.	85.00
0-60	282.22	N.A.	95.90
0-80	293.54	N.A.	99.80
0-90	294.17	N.A.	100.00
10-90	261.56	N.A.	88.90
20-40	131.52	N.A.	44.70
20-50	150.09	N.A.	51.00
40-70	40.40	N.A.	13.70
60-80	11.32	N.A.	3.80
70-80	3.04	N.A.	1.00
80-90	0.63	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	294.17	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	32.61
10-20	85.97
20-30	91.33
30-40	40.19
40-50	18.57
50-60	13.56
60-70	8.28
70-80	3.04
80-90	0.63
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	99	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	76	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

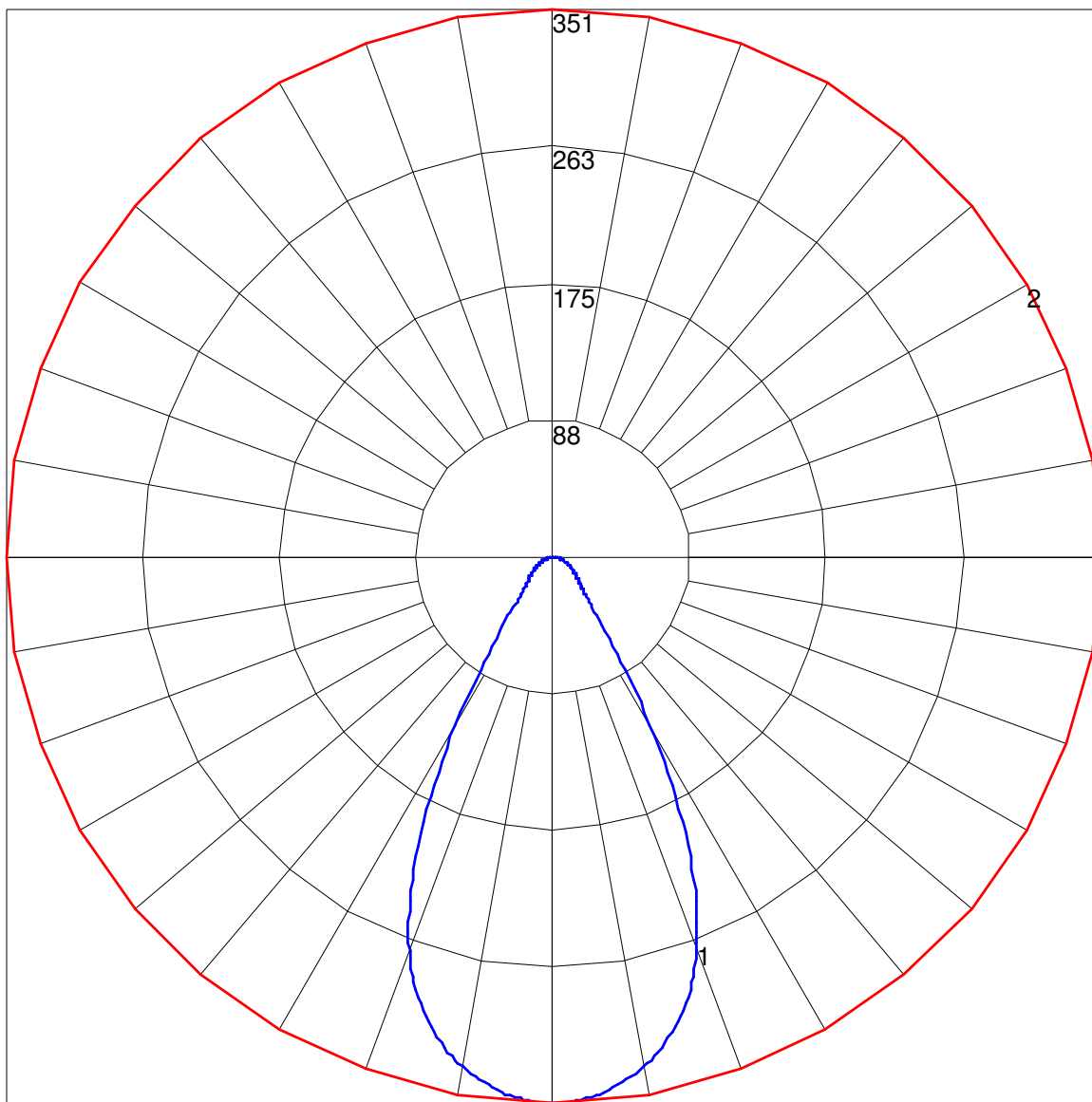
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**UGR TABLE - CORRECTED**

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	14.7	15.8	15.0	16.1	16.4	14.7	15.8	15.0	16.1	16.4
	3H	15.7	16.7	16.1	17.0	17.4	15.7	16.7	16.1	17.0	17.4
	4H	15.9	16.8	16.3	17.2	17.6	15.9	16.8	16.3	17.2	17.6
	6H	15.9	16.8	16.4	17.1	17.5	15.9	16.8	16.4	17.1	17.5
	8H	15.9	16.7	16.4	17.1	17.5	15.9	16.7	16.4	17.1	17.5
	12H	15.9	16.7	16.4	17.1	17.5	15.9	16.7	16.4	17.1	17.5
4H	2H	15.0	15.9	15.4	16.3	16.7	15.0	15.9	15.4	16.3	16.7
	3H	16.2	16.9	16.6	17.3	17.8	16.2	16.9	16.6	17.3	17.8
	4H	16.4	17.1	16.9	17.5	18.0	16.4	17.1	16.9	17.5	18.0
	6H	16.5	17.1	17.0	17.5	18.0	16.5	17.1	17.0	17.5	18.0
	8H	16.5	17.0	17.0	17.5	18.0	16.5	17.0	17.0	17.5	18.0
	12H	16.5	17.0	17.0	17.5	17.9	16.5	17.0	17.0	17.5	17.9
8H	4H	16.4	17.0	16.9	17.4	17.9	16.4	17.0	16.9	17.4	17.9
	6H	16.6	17.0	17.1	17.5	18.0	16.6	17.0	17.1	17.5	18.0
	8H	16.6	17.0	17.1	17.5	18.0	16.6	17.0	17.1	17.5	18.0
	12H	16.6	16.9	17.1	17.4	18.0	16.6	16.9	17.1	17.4	18.0
12H	4H	16.4	16.8	16.9	17.3	17.8	16.4	16.8	16.9	17.3	17.8
	6H	16.5	16.9	17.1	17.4	17.9	16.5	16.9	17.1	17.4	17.9
	8H	16.6	16.9	17.1	17.4	18.0	16.6	16.9	17.1	17.4	18.0

Maximum UGR = 18.0

POLAR GRAPH



Maximum Candela = 350.578 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.)