

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L5-927-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-L5-927-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	372
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	56
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	13351	13351	13351
55	10564	10564	10564
65	7897	7897	7897
75	4112	4112	4112
85	2491	2491	2491

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CANDELA TABULATION

	<u>0</u>
0.0	443.769
0.5	443.769
1.0	443.540
1.5	443.312
2.0	443.312
2.5	442.854
3.0	442.168
3.5	441.253
4.0	440.338
4.5	439.423
5.0	438.050
5.5	436.907
6.0	435.534
6.5	433.933
7.0	432.332
7.5	430.730
8.0	429.129
8.5	427.299
9.0	425.240
9.5	423.411
10.0	421.352
10.5	419.064
11.0	416.548
11.5	414.032
12.0	411.287
12.5	408.542
13.0	405.568
13.5	402.366
14.0	398.935
14.5	395.503
15.0	391.615
15.5	387.726
16.0	383.380
16.5	379.034
17.0	374.459
17.5	369.655
18.0	364.623
18.5	359.133
19.0	353.414
19.5	347.238
20.0	340.833
20.5	334.199
21.0	327.108
21.5	319.788
22.0	311.782
22.5	303.776
23.0	295.312
23.5	286.620
24.0	277.470
24.5	268.320
25.0	258.941
25.5	249.105
26.0	239.041
26.5	228.976

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**CANDELA TABULATION - (Cont.)**

27.0	218.979
27.5	208.937
28.0	198.804
28.5	188.716
29.0	178.400
29.5	168.015
30.0	157.721
30.5	147.588
31.0	137.591
31.5	127.938
32.0	118.651
32.5	109.867
33.0	101.724
33.5	94.175
34.0	87.153
34.5	80.725
35.0	74.892
35.5	69.539
36.0	64.690
36.5	60.343
37.0	56.478
37.5	53.024
38.0	49.890
38.5	47.099
39.0	44.651
39.5	42.501
40.0	40.580
40.5	38.910
41.0	37.423
41.5	36.096
42.0	34.907
42.5	33.855
43.0	32.894
43.5	32.047
44.0	31.247
44.5	30.515
45.0	29.829
45.5	29.165
46.0	28.548
46.5	27.930
47.0	27.358
47.5	26.786
48.0	26.214
48.5	25.665
49.0	25.116
49.5	24.567
50.0	24.041
50.5	23.538
51.0	23.012
51.5	22.509
52.0	22.028
52.5	21.525
53.0	21.045
53.5	20.564
54.0	20.084
54.5	19.604

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**CANDELA TABULATION - (Cont.)**

55.0	19.146
55.5	18.689
56.0	18.231
56.5	17.774
57.0	17.316
57.5	16.882
58.0	16.424
58.5	15.989
59.0	15.555
59.5	15.143
60.0	14.708
60.5	14.274
61.0	13.839
61.5	13.427
62.0	12.993
62.5	12.581
63.0	12.169
63.5	11.758
64.0	11.346
64.5	10.934
65.0	10.545
65.5	10.156
66.0	9.767
66.5	9.356
67.0	8.990
67.5	8.624
68.0	8.235
68.5	7.869
69.0	7.503
69.5	7.137
70.0	6.794
70.5	6.428
71.0	6.085
71.5	5.719
72.0	5.376
72.5	5.032
73.0	4.689
73.5	4.346
74.0	4.026
74.5	3.683
75.0	3.363
75.5	3.065
76.0	2.768
76.5	2.539
77.0	2.333
77.5	2.150
78.0	2.013
78.5	1.899
79.0	1.807
79.5	1.716
80.0	1.601
80.5	1.510
81.0	1.418
81.5	1.327
82.0	1.212
82.5	1.121

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CANDELA TABULATION - (Cont.)

83.0	1.052
83.5	0.961
84.0	0.869
84.5	0.778
85.0	0.686
85.5	0.618
86.0	0.526
86.5	0.457
87.0	0.366
87.5	0.297
88.0	0.229
88.5	0.160
89.0	0.091
89.5	0.069
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
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130.0	0.000
130.5	0.000
131.0	0.000
131.5	0.000
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132.5	0.000
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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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PHOTOMETRIC FILENAME : V2DR-L5-927-DIM-UNV-RW-OF-WH\_.IES

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
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	150.10	N.A.	40.30
0-30	265.71	N.A.	71.40
0-40	316.58	N.A.	85.00
0-60	357.24	N.A.	95.90
0-80	371.57	N.A.	99.80
0-90	372.36	N.A.	100.00
10-90	331.09	N.A.	88.90
20-40	166.48	N.A.	44.70
20-50	189.98	N.A.	51.00
40-70	51.14	N.A.	13.70
60-80	14.33	N.A.	3.80
70-80	3.85	N.A.	1.00
80-90	0.79	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	372.36	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	41.28
10-20	108.82
20-30	115.61
30-40	50.87
40-50	23.50
50-60	17.16
60-70	10.48
70-80	3.85
80-90	0.79
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	59	55	63	58	54	62	58	54	62	57	54	53
10	71	61	56	52	70	61	55	52	60	55	51	59	55	51	59	54	51	50

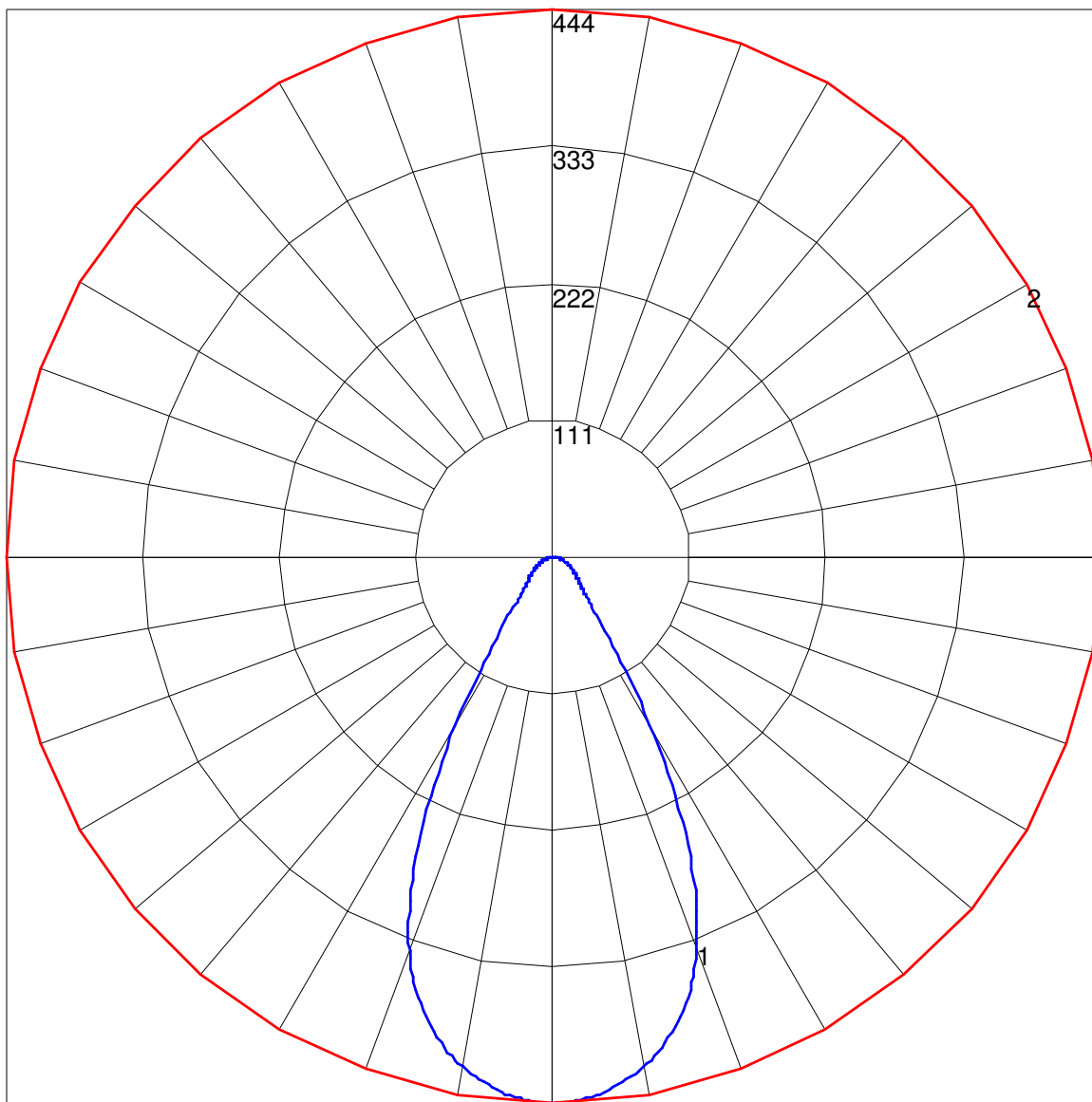
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**UGR TABLE - CORRECTED**

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	15.5	16.6	15.9	16.9	17.2	15.5	16.6	15.9	16.9	17.2
	3H	16.5	17.5	16.9	17.8	18.2	16.5	17.5	16.9	17.8	18.2
	4H	16.7	17.6	17.1	18.0	18.4	16.7	17.6	17.1	18.0	18.4
	6H	16.8	17.6	17.2	18.0	18.4	16.8	17.6	17.2	18.0	18.4
	8H	16.8	17.5	17.2	17.9	18.3	16.8	17.5	17.2	17.9	18.3
	12H	16.7	17.5	17.2	17.9	18.3	16.7	17.5	17.2	17.9	18.3
4H	2H	15.8	16.7	16.2	17.1	17.5	15.8	16.7	16.2	17.1	17.5
	3H	17.0	17.8	17.4	18.2	18.6	17.0	17.8	17.4	18.2	18.6
	4H	17.2	17.9	17.7	18.3	18.8	17.2	17.9	17.7	18.3	18.8
	6H	17.3	17.9	17.8	18.3	18.8	17.3	17.9	17.8	18.3	18.8
	8H	17.3	17.9	17.8	18.3	18.8	17.3	17.9	17.8	18.3	18.8
	12H	17.3	17.8	17.8	18.3	18.7	17.3	17.8	17.8	18.3	18.7
8H	4H	17.2	17.8	17.7	18.2	18.7	17.2	17.8	17.7	18.2	18.7
	6H	17.4	17.8	17.9	18.3	18.8	17.4	17.8	17.9	18.3	18.8
	8H	17.4	17.8	17.9	18.3	18.8	17.4	17.8	17.9	18.3	18.8
	12H	17.4	17.8	17.9	18.3	18.8	17.4	17.8	17.9	18.3	18.8
12H	4H	17.2	17.7	17.7	18.1	18.6	17.2	17.7	17.7	18.1	18.6
	6H	17.3	17.7	17.9	18.2	18.7	17.3	17.7	17.9	18.2	18.7
	8H	17.4	17.7	17.9	18.2	18.8	17.4	17.7	17.9	18.2	18.8

Maximum UGR = 18.8

POLAR GRAPH



Maximum Candela = 443.769 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.)