

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L5-827-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-L5-827-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	451
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	67
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	16161	16161	16161
55	12788	12788	12788
65	9559	9559	9559
75	4977	4977	4977
85	3018	3018	3018

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CANDELA TABULATION

	<u>0</u>
0.0	537.194
0.5	537.194
1.0	536.917
1.5	536.640
2.0	536.640
2.5	536.087
3.0	535.256
3.5	534.148
4.0	533.041
4.5	531.933
5.0	530.272
5.5	528.887
6.0	527.226
6.5	525.287
7.0	523.349
7.5	521.411
8.0	519.472
8.5	517.257
9.0	514.765
9.5	512.550
10.0	510.058
10.5	507.288
11.0	504.243
11.5	501.197
12.0	497.874
12.5	494.551
13.0	490.951
13.5	487.074
14.0	482.921
14.5	478.767
15.0	474.060
15.5	469.353
16.0	464.091
16.5	458.830
17.0	453.292
17.5	447.477
18.0	441.385
18.5	434.740
19.0	427.817
19.5	420.341
20.0	412.587
20.5	404.557
21.0	395.973
21.5	387.112
22.0	377.420
22.5	367.729
23.0	357.483
23.5	346.961
24.0	335.885
24.5	324.809
25.0	313.456
25.5	301.549
26.0	289.365
26.5	277.181

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**CANDELA TABULATION - (Cont.)**

27.0	265.080
27.5	252.924
28.0	240.657
28.5	228.446
29.0	215.958
29.5	203.386
30.0	190.925
30.5	178.659
31.0	166.558
31.5	154.873
32.0	143.630
32.5	132.997
33.0	123.139
33.5	114.001
34.0	105.500
34.5	97.719
35.0	90.658
35.5	84.179
36.0	78.309
36.5	73.047
37.0	68.368
37.5	64.186
38.0	60.393
38.5	57.015
39.0	54.052
39.5	51.449
40.0	49.123
40.5	47.101
41.0	45.302
41.5	43.695
42.0	42.256
42.5	40.982
43.0	39.819
43.5	38.794
44.0	37.825
44.5	36.939
45.0	36.108
45.5	35.305
46.0	34.558
46.5	33.810
47.0	33.118
47.5	32.425
48.0	31.733
48.5	31.069
49.0	30.404
49.5	29.740
50.0	29.103
50.5	28.493
51.0	27.857
51.5	27.247
52.0	26.666
52.5	26.057
53.0	25.475
53.5	24.894
54.0	24.312
54.5	23.731

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**CANDELA TABULATION - (Cont.)**

55.0	23.177
55.5	22.623
56.0	22.069
56.5	21.515
57.0	20.962
57.5	20.436
58.0	19.882
58.5	19.356
59.0	18.829
59.5	18.331
60.0	17.805
60.5	17.279
61.0	16.753
61.5	16.254
62.0	15.728
62.5	15.230
63.0	14.731
63.5	14.233
64.0	13.734
64.5	13.236
65.0	12.765
65.5	12.295
66.0	11.824
66.5	11.325
67.0	10.882
67.5	10.439
68.0	9.969
68.5	9.526
69.0	9.082
69.5	8.639
70.0	8.224
70.5	7.781
71.0	7.366
71.5	6.923
72.0	6.507
72.5	6.092
73.0	5.677
73.5	5.261
74.0	4.874
74.5	4.458
75.0	4.070
75.5	3.711
76.0	3.351
76.5	3.074
77.0	2.824
77.5	2.603
78.0	2.437
78.5	2.298
79.0	2.188
79.5	2.077
80.0	1.938
80.5	1.828
81.0	1.717
81.5	1.606
82.0	1.468
82.5	1.357

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CANDELA TABULATION - (Cont.)

83.0	1.274
83.5	1.163
84.0	1.052
84.5	0.941
85.0	0.831
85.5	0.748
86.0	0.637
86.5	0.554
87.0	0.443
87.5	0.360
88.0	0.277
88.5	0.194
89.0	0.111
89.5	0.083
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
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
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	181.70	N.A.	40.30
0-30	321.65	N.A.	71.40
0-40	383.23	N.A.	85.00
0-60	432.45	N.A.	95.90
0-80	449.80	N.A.	99.80
0-90	450.76	N.A.	100.00
10-90	400.79	N.A.	88.90
20-40	201.53	N.A.	44.70
20-50	229.98	N.A.	51.00
40-70	61.91	N.A.	13.70
60-80	17.35	N.A.	3.80
70-80	4.66	N.A.	1.00
80-90	0.96	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	450.76	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	49.97
10-20	131.73
20-30	139.95
30-40	61.58
40-50	28.45
50-60	20.77
60-70	12.69
70-80	4.66
80-90	0.96
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	96	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	70	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	74	65	59	55	73	64	58	54	63	58	54	62	58	54	61	57	54	53
10	71	61	55	52	70	61	55	51	60	55	51	59	54	51	59	54	51	50

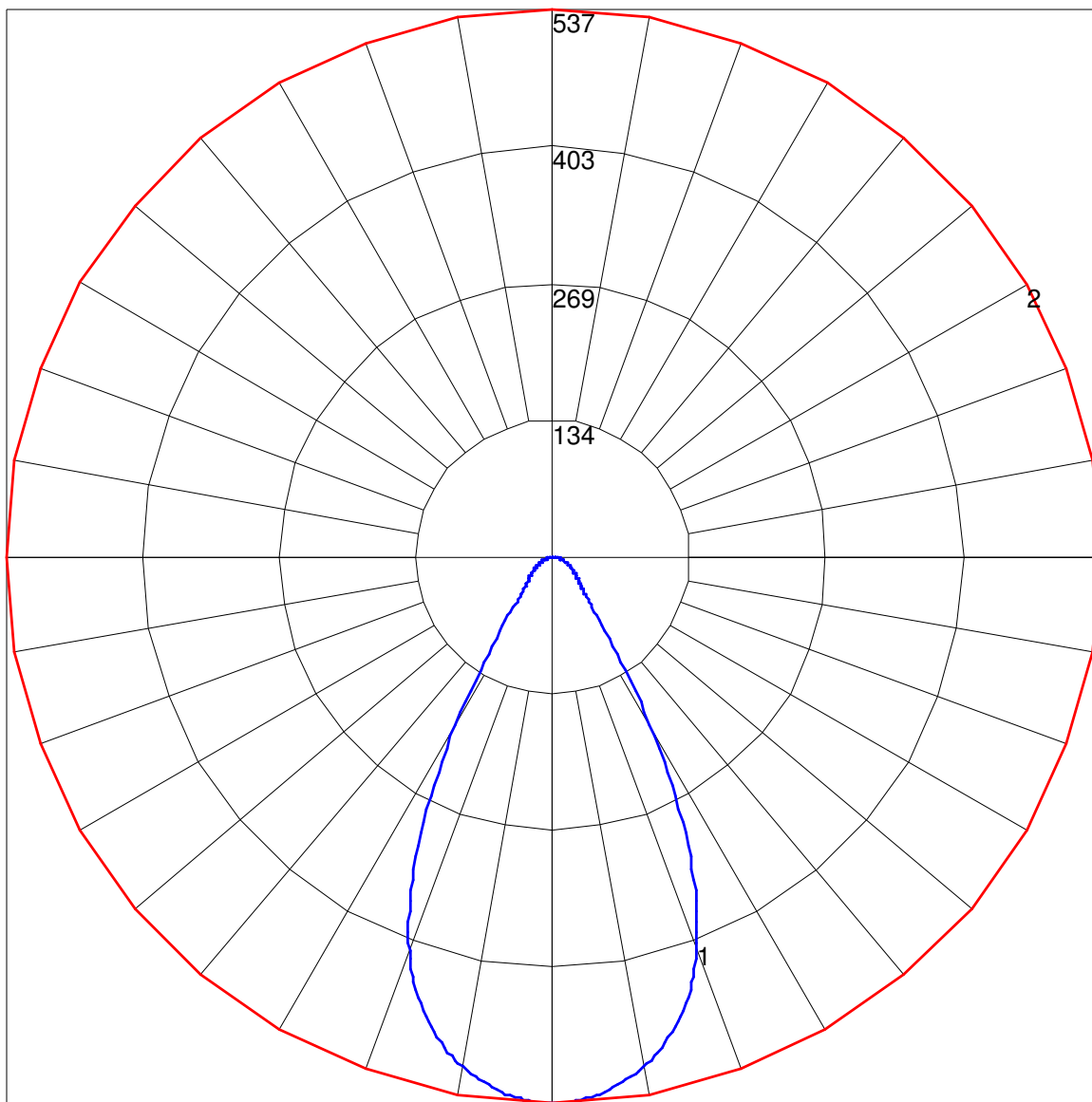
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**UGR TABLE - CORRECTED**

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	16.2	17.3	16.6	17.6	17.9	16.2	17.3	16.6	17.6	17.9
	3H	17.2	18.2	17.6	18.5	18.9	17.2	18.2	17.6	18.5	18.9
	4H	17.4	18.3	17.8	18.7	19.1	17.4	18.3	17.8	18.7	19.1
	6H	17.4	18.3	17.9	18.6	19.0	17.4	18.3	17.9	18.6	19.0
	8H	17.4	18.2	17.9	18.6	19.0	17.4	18.2	17.9	18.6	19.0
	12H	17.4	18.2	17.9	18.6	19.0	17.4	18.2	17.9	18.6	19.0
4H	2H	16.5	17.4	16.9	17.8	18.2	16.5	17.4	16.9	17.8	18.2
	3H	17.7	18.4	18.1	18.8	19.3	17.7	18.4	18.1	18.8	19.3
	4H	17.9	18.6	18.4	19.0	19.5	17.9	18.6	18.4	19.0	19.5
	6H	18.0	18.6	18.5	19.0	19.5	18.0	18.6	18.5	19.0	19.5
	8H	18.0	18.5	18.5	19.0	19.5	18.0	18.5	18.5	19.0	19.5
	12H	18.0	18.5	18.5	19.0	19.4	18.0	18.5	18.5	19.0	19.4
8H	4H	17.9	18.5	18.4	18.9	19.4	17.9	18.5	18.4	18.9	19.4
	6H	18.1	18.5	18.6	19.0	19.5	18.1	18.5	18.6	19.0	19.5
	8H	18.1	18.5	18.6	19.0	19.5	18.1	18.5	18.6	19.0	19.5
	12H	18.1	18.4	18.6	18.9	19.5	18.1	18.4	18.6	18.9	19.5
12H	4H	17.9	18.3	18.4	18.8	19.3	17.9	18.3	18.4	18.8	19.3
	6H	18.0	18.4	18.6	18.9	19.4	18.0	18.4	18.6	18.9	19.4
	8H	18.1	18.4	18.6	18.9	19.5	18.1	18.4	18.6	18.9	19.5

Maximum UGR = 19.5

POLAR GRAPH



Maximum Candela = 537.194 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.)