

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L5-827-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.  
[ISSUE DATE] 2025-05-20  
[MANUFAC] WILLIAMS INDOOR  
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
[LUMCAT] V2DR-L5-827-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	442
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	66
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	15838	15838	15838
55	12532	12532	12532
65	9368	9368	9368
75	4878	4878	4878
85	2956	2956	2956

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CANDELA TABULATION

	<u>0</u>
0.0	526.450
0.5	526.450
1.0	526.179
1.5	525.907
2.0	525.907
2.5	525.365
3.0	524.551
3.5	523.465
4.0	522.380
4.5	521.294
5.0	519.666
5.5	518.309
6.0	516.681
6.5	514.781
7.0	512.882
7.5	510.982
8.0	509.083
8.5	506.912
9.0	504.470
9.5	502.299
10.0	499.856
10.5	497.143
11.0	494.158
11.5	491.173
12.0	487.916
12.5	484.660
13.0	481.132
13.5	477.333
14.0	473.262
14.5	469.192
15.0	464.579
15.5	459.966
16.0	454.810
16.5	449.654
17.0	444.226
17.5	438.528
18.0	432.558
18.5	426.045
19.0	419.261
19.5	411.934
20.0	404.335
20.5	396.466
21.0	388.054
21.5	379.370
22.0	369.872
22.5	360.374
23.0	350.334
23.5	340.022
24.0	329.167
24.5	318.312
25.0	307.186
25.5	295.518
26.0	283.578
26.5	271.637

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**CANDELA TABULATION - (Cont.)**

27.0	259.779
27.5	247.866
28.0	235.844
28.5	223.877
29.0	211.638
29.5	199.318
30.0	187.107
30.5	175.085
31.0	163.227
31.5	151.775
32.0	140.758
32.5	130.337
33.0	120.677
33.5	111.721
34.0	103.390
34.5	95.765
35.0	88.845
35.5	82.495
36.0	76.742
36.5	71.586
37.0	67.000
37.5	62.903
38.0	59.185
38.5	55.874
39.0	52.971
39.5	50.420
40.0	48.140
40.5	46.159
41.0	44.395
41.5	42.822
42.0	41.410
42.5	40.162
43.0	39.022
43.5	38.018
44.0	37.069
44.5	36.200
45.0	35.386
45.5	34.599
46.0	33.866
46.5	33.134
47.0	32.455
47.5	31.777
48.0	31.099
48.5	30.447
49.0	29.796
49.5	29.145
50.0	28.521
50.5	27.924
51.0	27.299
51.5	26.702
52.0	26.133
52.5	25.536
53.0	24.966
53.5	24.396
54.0	23.826
54.5	23.256

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**CANDELA TABULATION - (Cont.)**

55.0	22.713
55.5	22.171
56.0	21.628
56.5	21.085
57.0	20.542
57.5	20.027
58.0	19.484
58.5	18.968
59.0	18.453
59.5	17.964
60.0	17.449
60.5	16.933
61.0	16.418
61.5	15.929
62.0	15.414
62.5	14.925
63.0	14.437
63.5	13.948
64.0	13.460
64.5	12.971
65.0	12.510
65.5	12.049
66.0	11.587
66.5	11.099
67.0	10.665
67.5	10.231
68.0	9.769
68.5	9.335
69.0	8.901
69.5	8.467
70.0	8.060
70.5	7.625
71.0	7.218
71.5	6.784
72.0	6.377
72.5	5.970
73.0	5.563
73.5	5.156
74.0	4.776
74.5	4.369
75.0	3.989
75.5	3.636
76.0	3.284
76.5	3.012
77.0	2.768
77.5	2.551
78.0	2.388
78.5	2.252
79.0	2.144
79.5	2.035
80.0	1.900
80.5	1.791
81.0	1.682
81.5	1.574
82.0	1.438
82.5	1.330

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CANDELA TABULATION - (Cont.)

83.0	1.248
83.5	1.140
84.0	1.031
84.5	0.923
85.0	0.814
85.5	0.733
86.0	0.624
86.5	0.543
87.0	0.434
87.5	0.353
88.0	0.271
88.5	0.190
89.0	0.109
89.5	0.081
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

IES INDOOR REPORT  
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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	178.06	N.A.	40.30
0-30	315.22	N.A.	71.40
0-40	375.56	N.A.	85.00
0-60	423.80	N.A.	95.90
0-80	440.80	N.A.	99.80
0-90	441.74	N.A.	100.00
10-90	392.77	N.A.	88.90
20-40	197.50	N.A.	44.70
20-50	225.38	N.A.	51.00
40-70	60.67	N.A.	13.70
60-80	17.00	N.A.	3.80
70-80	4.57	N.A.	1.00
80-90	0.94	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	441.74	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	48.97
10-20	129.09
20-30	137.15
30-40	60.35
40-50	27.88
50-60	20.36
60-70	12.43
70-80	4.57
80-90	0.94
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	77	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	69	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**

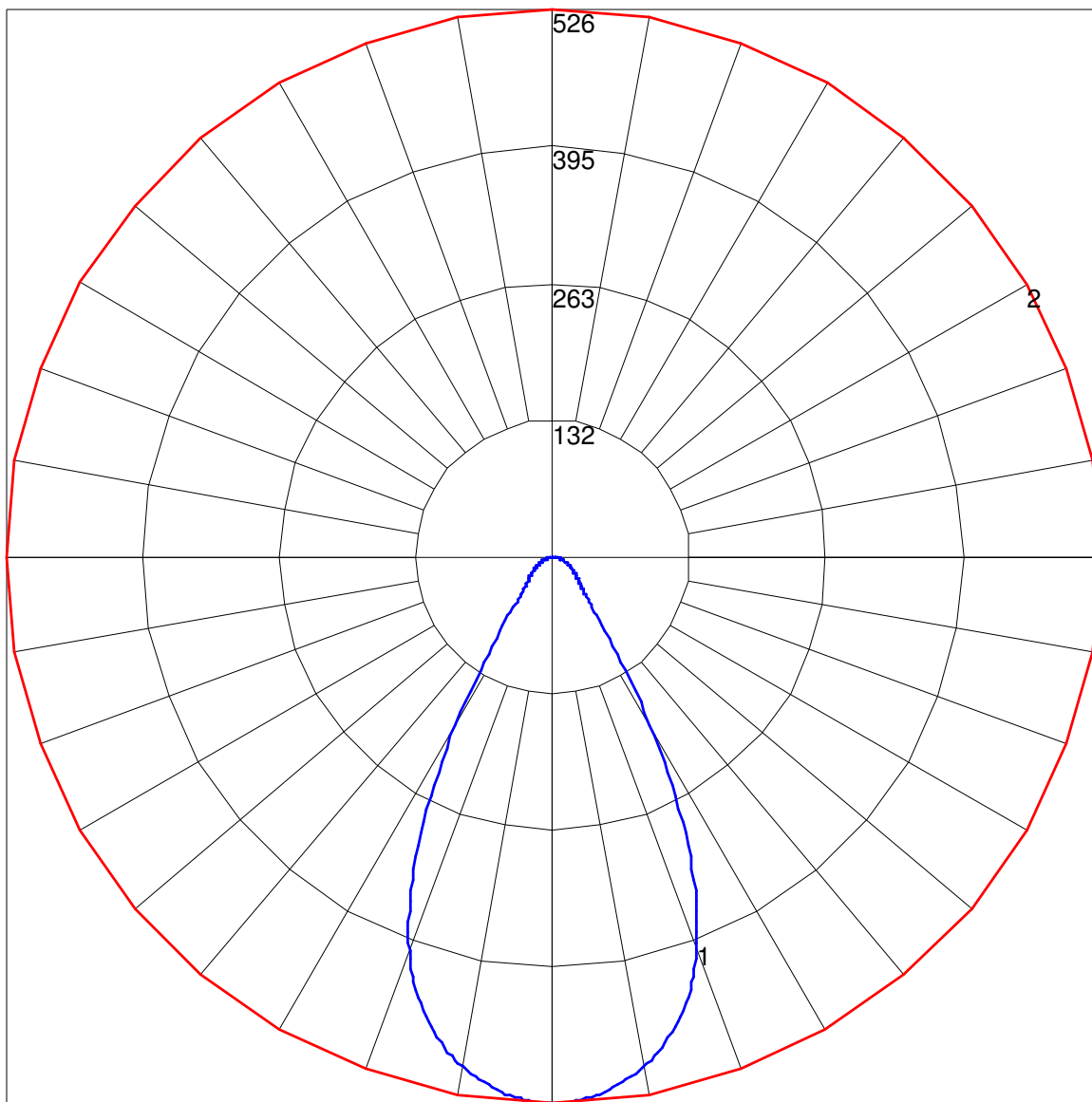
Reflectances

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	16.1	17.2	16.5	17.5	17.8	16.1	17.2	16.5	17.5	17.8
	3H	17.1	18.1	17.5	18.4	18.8	17.1	18.1	17.5	18.4	18.8
	4H	17.3	18.2	17.7	18.6	19.0	17.3	18.2	17.7	18.6	19.0
	6H	17.4	18.2	17.8	18.6	19.0	17.4	18.2	17.8	18.6	19.0
	8H	17.4	18.1	17.8	18.5	18.9	17.4	18.1	17.8	18.5	18.9
	12H	17.3	18.1	17.8	18.5	18.9	17.3	18.1	17.8	18.5	18.9
4H	2H	16.4	17.3	16.8	17.7	18.1	16.4	17.3	16.8	17.7	18.1
	3H	17.6	18.4	18.0	18.8	19.2	17.6	18.4	18.0	18.8	19.2
	4H	17.8	18.5	18.3	18.9	19.4	17.8	18.5	18.3	18.9	19.4
	6H	17.9	18.5	18.4	18.9	19.4	17.9	18.5	18.4	18.9	19.4
	8H	17.9	18.5	18.4	18.9	19.4	17.9	18.5	18.4	18.9	19.4
	12H	17.9	18.4	18.4	18.9	19.3	17.9	18.4	18.4	18.9	19.3
8H	4H	17.8	18.4	18.3	18.8	19.3	17.8	18.4	18.3	18.8	19.3
	6H	18.0	18.4	18.5	18.9	19.4	18.0	18.4	18.5	18.9	19.4
	8H	18.0	18.4	18.5	18.9	19.4	18.0	18.4	18.5	18.9	19.4
	12H	18.0	18.4	18.5	18.9	19.4	18.0	18.4	18.5	18.9	19.4
12H	4H	17.8	18.3	18.3	18.7	19.2	17.8	18.3	18.3	18.7	19.2
	6H	17.9	18.3	18.5	18.8	19.3	17.9	18.3	18.5	18.8	19.3
	8H	18.0	18.3	18.5	18.8	19.4	18.0	18.3	18.5	18.8	19.4

Maximum UGR = 19.4

POLAR GRAPH



Maximum Candela = 526.45 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.)