

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L5-827-DIM-UNV-LW-OF\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] GEN FROM 13257153.01  
[TESTLAB] UL Verification Services Inc.  
[ISSUEDATE] 2025-05-20  
[MANUFAC] WILLIAMS INDOOR  
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
[LUMCAT] V2DR-L5-827-DIM-UNV-LW-OF\_  
[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, Vandal-Resistant  
[SEARCH\_MOUNTING] Recessed

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	465
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	69
Total Luminaire Watts	6.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.86
Spacing Criterion (90-270)	0.86
Spacing Criterion (Diagonal)	0.78
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	19164	19164	19164
55	16737	16737	16737
65	14297	14297	14297
75	11535	11535	11535
85	6460	6460	6460

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CANDELA TABULATION

	<u>0</u>
0.0	548.200
0.5	547.917
1.0	547.917
1.5	547.635
2.0	547.352
2.5	546.505
3.0	545.658
3.5	544.811
4.0	543.681
4.5	542.269
5.0	540.857
5.5	539.444
6.0	538.032
6.5	536.338
7.0	534.643
7.5	532.948
8.0	530.971
8.5	528.994
9.0	526.735
9.5	524.475
10.0	521.934
10.5	519.109
11.0	516.285
11.5	513.178
12.0	510.071
12.5	506.400
13.0	502.728
13.5	498.774
14.0	494.538
14.5	490.019
15.0	485.217
15.5	479.851
16.0	474.485
16.5	468.554
17.0	462.058
17.5	455.562
18.0	448.219
18.5	440.593
19.0	432.120
19.5	423.083
20.0	413.762
20.5	403.595
21.0	393.145
21.5	381.848
22.0	369.985
22.5	357.841
23.0	345.131
23.5	332.140
24.0	318.865
24.5	305.309
25.0	291.469
25.5	277.771
26.0	263.904
26.5	250.178

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**CANDELA TABULATION - (Cont.)**

<b>27.0</b>	236.649
<b>27.5</b>	223.403
<b>28.0</b>	210.440
<b>28.5</b>	197.787
<b>29.0</b>	185.529
<b>29.5</b>	173.582
<b>30.0</b>	162.370
<b>30.5</b>	151.779
<b>31.0</b>	141.781
<b>31.5</b>	132.460
<b>32.0</b>	123.733
<b>32.5</b>	115.627
<b>33.0</b>	108.200
<b>33.5</b>	101.393
<b>34.0</b>	95.208
<b>34.5</b>	89.559
<b>35.0</b>	84.419
<b>35.5</b>	79.759
<b>36.0</b>	75.550
<b>36.5</b>	71.794
<b>37.0</b>	68.405
<b>37.5</b>	65.383
<b>38.0</b>	62.672
<b>38.5</b>	60.214
<b>39.0</b>	58.011
<b>39.5</b>	56.034
<b>40.0</b>	54.227
<b>40.5</b>	52.617
<b>41.0</b>	51.148
<b>41.5</b>	49.793
<b>42.0</b>	48.550
<b>42.5</b>	47.392
<b>43.0</b>	46.347
<b>43.5</b>	45.387
<b>44.0</b>	44.483
<b>44.5</b>	43.636
<b>45.0</b>	42.817
<b>45.5</b>	42.054
<b>46.0</b>	41.320
<b>46.5</b>	40.614
<b>47.0</b>	39.936
<b>47.5</b>	39.258
<b>48.0</b>	38.608
<b>48.5</b>	37.959
<b>49.0</b>	37.309
<b>49.5</b>	36.688
<b>50.0</b>	36.095
<b>50.5</b>	35.502
<b>51.0</b>	34.880
<b>51.5</b>	34.315
<b>52.0</b>	33.722
<b>52.5</b>	33.157
<b>53.0</b>	32.593
<b>53.5</b>	32.028
<b>54.0</b>	31.463
<b>54.5</b>	30.898

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**CANDELA TABULATION - (Cont.)**

55.0	30.333
55.5	29.768
56.0	29.232
56.5	28.639
57.0	28.102
57.5	27.537
58.0	26.972
58.5	26.407
59.0	25.842
59.5	25.278
60.0	24.713
60.5	24.148
61.0	23.583
61.5	22.990
62.0	22.453
62.5	21.888
63.0	21.295
63.5	20.730
64.0	20.166
64.5	19.629
65.0	19.092
65.5	18.556
66.0	18.019
66.5	17.511
67.0	16.974
67.5	16.494
68.0	15.986
68.5	15.505
69.0	15.025
69.5	14.517
70.0	14.037
70.5	13.557
71.0	13.105
71.5	12.625
72.0	12.145
72.5	11.693
73.0	11.213
73.5	10.761
74.0	10.337
74.5	9.885
75.0	9.433
75.5	9.010
76.0	8.586
76.5	8.162
77.0	7.767
77.5	7.343
78.0	6.948
78.5	6.552
79.0	6.157
79.5	5.762
80.0	5.394
80.5	4.999
81.0	4.632
81.5	4.265
82.0	3.898
82.5	3.530

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CANDELA TABULATION - (Cont.)

83.0	3.191
83.5	2.824
84.0	2.485
84.5	2.118
85.0	1.779
85.5	1.412
86.0	1.045
86.5	0.791
87.0	0.565
87.5	0.339
88.0	0.226
88.5	0.169
89.0	0.113
89.5	0.085
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
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124.0	0.000
124.5	0.000
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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
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
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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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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	185.33	N.A.	39.90
0-30	315.97	N.A.	68.00
0-40	372.72	N.A.	80.20
0-60	433.39	N.A.	93.30
0-80	462.42	N.A.	99.50
0-90	464.66	N.A.	100.00
10-90	413.62	N.A.	89.00
20-40	187.39	N.A.	40.30
20-50	220.92	N.A.	47.50
40-70	79.65	N.A.	17.10
60-80	29.04	N.A.	6.20
70-80	10.05	N.A.	2.20
80-90	2.24	N.A.	0.50
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	464.66	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	51.04
10-20	134.29
20-30	130.63
30-40	56.75
40-50	33.54
50-60	27.13
60-70	18.98
70-80	10.05
80-90	2.24
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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76
4	94	86	80	75	92	85	79	75	83	78	74	81	76	73	79	75	72	70
5	89	80	74	69	88	79	73	69	77	72	68	76	71	68	74	70	67	65
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61
7	81	71	64	60	79	70	64	60	69	63	59	67	63	59	66	62	59	57
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54
9	73	63	57	53	72	62	57	53	61	56	52	61	56	52	60	55	52	51
10	70	60	54	50	69	59	53	50	58	53	49	58	53	49	57	52	49	48

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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

X=2H	Y=2H	18.1	19.3	18.4	19.6	19.9	18.1	19.3	18.4	19.6	19.9
	3H	19.6	20.6	20.0	21.0	21.3	19.6	20.6	20.0	21.0	21.3
	4H	20.1	21.1	20.5	21.4	21.8	20.1	21.1	20.5	21.4	21.8
	6H	20.5	21.3	20.9	21.7	22.1	20.5	21.3	20.9	21.7	22.1
	8H	20.5	21.4	21.0	21.8	22.2	20.5	21.4	21.0	21.8	22.2
	12H	20.6	21.4	21.0	21.7	22.2	20.6	21.4	21.0	21.7	22.2

UGR Viewed Endwise

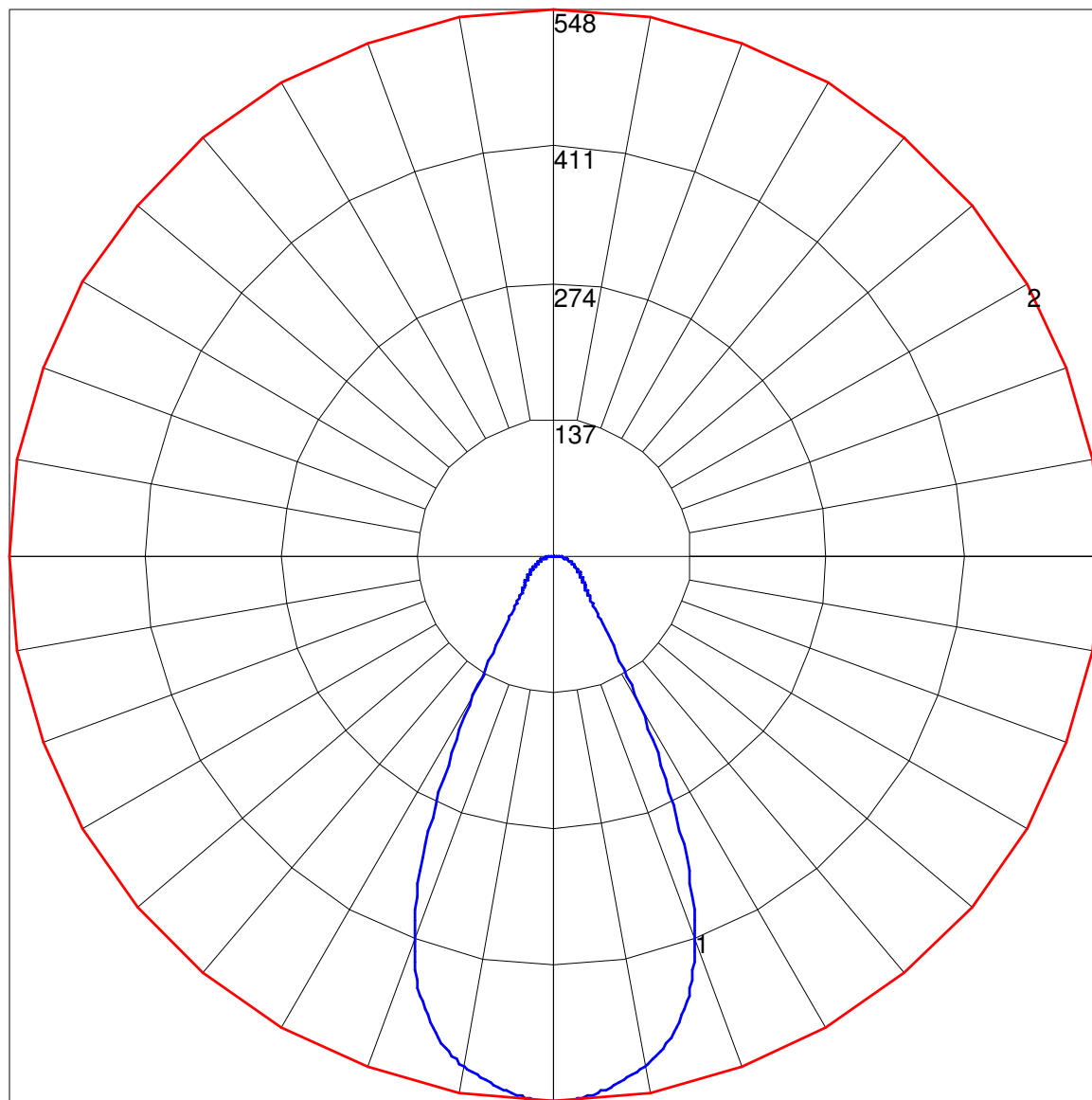
4H	2H	18.6	19.5	19.0	19.9	20.3	18.6	19.5	19.0	19.9	20.3
	3H	20.2	21.0	20.7	21.5	21.9	20.2	21.0	20.7	21.5	21.9
	4H	20.9	21.6	21.3	22.0	22.5	20.9	21.6	21.3	22.0	22.5
	6H	21.3	22.0	21.8	22.4	22.9	21.3	22.0	21.8	22.4	22.9
	8H	21.4	22.0	21.9	22.5	22.9	21.4	22.0	21.9	22.5	22.9
	12H	21.5	22.0	22.0	22.5	23.0	21.5	22.0	22.0	22.5	23.0

8H	4H	21.1	21.6	21.5	22.1	22.6	21.1	21.6	21.5	22.1	22.6
	6H	21.6	22.1	22.1	22.6	23.1	21.6	22.1	22.1	22.6	23.1
	8H	21.8	22.2	22.3	22.7	23.2	21.8	22.2	22.3	22.7	23.2
	12H	21.9	22.3	22.4	22.8	23.3	21.9	22.3	22.4	22.8	23.3

12H	4H	21.1	21.6	21.5	22.0	22.5	21.1	21.6	21.5	22.0	22.5
	6H	21.6	22.1	22.2	22.5	23.1	21.6	22.1	22.2	22.5	23.1
	8H	21.9	22.2	22.4	22.7	23.3	21.9	22.2	22.4	22.7	23.3

Maximum UGR = 23.3

POLAR GRAPH



Maximum Candela = 548.2 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.)