

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L8-850-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-L8-850-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	814
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	76
Total Luminaire Watts	10.7
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	29180	29180	29180
55	23090	23090	23090
65	17260	17260	17260
75	8987	8987	8987
85	5447	5447	5447

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CANDELA TABULATION

	<u>0</u>
0.0	969.952
0.5	969.952
1.0	969.452
1.5	968.952
2.0	968.952
2.5	967.952
3.0	966.452
3.5	964.453
4.0	962.453
4.5	960.453
5.0	957.453
5.5	954.953
6.0	951.953
6.5	948.453
7.0	944.954
7.5	941.454
8.0	937.954
8.5	933.954
9.0	929.454
9.5	925.454
10.0	920.955
10.5	915.955
11.0	910.455
11.5	904.955
12.0	898.956
12.5	892.956
13.0	886.456
13.5	879.457
14.0	871.957
14.5	864.457
15.0	855.958
15.5	847.458
16.0	837.959
16.5	828.459
17.0	818.460
17.5	807.960
18.0	796.961
18.5	784.961
19.0	772.462
19.5	758.963
20.0	744.963
20.5	730.464
21.0	714.965
21.5	698.966
22.0	681.466
22.5	663.967
23.0	645.468
23.5	626.469
24.0	606.470
24.5	586.471
25.0	565.972
25.5	544.473
26.0	522.474
26.5	500.475

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**CANDELA TABULATION - (Cont.)**

<b>27.0</b>	478.626
<b>27.5</b>	456.678
<b>28.0</b>	434.529
<b>28.5</b>	412.480
<b>29.0</b>	389.931
<b>29.5</b>	367.232
<b>30.0</b>	344.733
<b>30.5</b>	322.584
<b>31.0</b>	300.735
<b>31.5</b>	279.636
<b>32.0</b>	259.337
<b>32.5</b>	240.138
<b>33.0</b>	222.339
<b>33.5</b>	205.840
<b>34.0</b>	190.491
<b>34.5</b>	176.441
<b>35.0</b>	163.692
<b>35.5</b>	151.993
<b>36.0</b>	141.393
<b>36.5</b>	131.894
<b>37.0</b>	123.444
<b>37.5</b>	115.894
<b>38.0</b>	109.045
<b>38.5</b>	102.945
<b>39.0</b>	97.595
<b>39.5</b>	92.895
<b>40.0</b>	88.696
<b>40.5</b>	85.046
<b>41.0</b>	81.796
<b>41.5</b>	78.896
<b>42.0</b>	76.296
<b>42.5</b>	73.996
<b>43.0</b>	71.896
<b>43.5</b>	70.047
<b>44.0</b>	68.297
<b>44.5</b>	66.697
<b>45.0</b>	65.197
<b>45.5</b>	63.747
<b>46.0</b>	62.397
<b>46.5</b>	61.047
<b>47.0</b>	59.797
<b>47.5</b>	58.547
<b>48.0</b>	57.297
<b>48.5</b>	56.097
<b>49.0</b>	54.897
<b>49.5</b>	53.697
<b>50.0</b>	52.547
<b>50.5</b>	51.447
<b>51.0</b>	50.298
<b>51.5</b>	49.198
<b>52.0</b>	48.148
<b>52.5</b>	47.048
<b>53.0</b>	45.998
<b>53.5</b>	44.948
<b>54.0</b>	43.898
<b>54.5</b>	42.848

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**CANDELA TABULATION - (Cont.)**

55.0	41.848
55.5	40.848
56.0	39.848
56.5	38.848
57.0	37.848
57.5	36.898
58.0	35.898
58.5	34.948
59.0	33.998
59.5	33.098
60.0	32.148
60.5	31.198
61.0	30.249
61.5	29.349
62.0	28.399
62.5	27.499
63.0	26.599
63.5	25.699
64.0	24.799
64.5	23.899
65.0	23.049
65.5	22.199
66.0	21.349
66.5	20.449
67.0	19.649
67.5	18.849
68.0	17.999
68.5	17.199
69.0	16.399
69.5	15.599
70.0	14.849
70.5	14.049
71.0	13.299
71.5	12.499
72.0	11.749
72.5	10.999
73.0	10.249
73.5	9.500
74.0	8.800
74.5	8.050
75.0	7.350
75.5	6.700
76.0	6.050
76.5	5.550
77.0	5.100
77.5	4.700
78.0	4.400
78.5	4.150
79.0	3.950
79.5	3.750
80.0	3.500
80.5	3.300
81.0	3.100
81.5	2.900
82.0	2.650
82.5	2.450

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CANDELA TABULATION - (Cont.)

83.0	2.300
83.5	2.100
84.0	1.900
84.5	1.700
85.0	1.500
85.5	1.350
86.0	1.150
86.5	1.000
87.0	0.800
87.5	0.650
88.0	0.500
88.5	0.350
89.0	0.200
89.5	0.150
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
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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
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156.0	0.000
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159.5	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	328.07	N.A.	40.30
0-30	580.77	N.A.	71.40
0-40	691.95	N.A.	85.00
0-60	780.83	N.A.	95.90
0-80	812.15	N.A.	99.80
0-90	813.88	N.A.	100.00
10-90	723.66	N.A.	88.90
20-40	363.88	N.A.	44.70
20-50	415.25	N.A.	51.00
40-70	111.78	N.A.	13.70
60-80	31.33	N.A.	3.80
70-80	8.42	N.A.	1.00
80-90	1.73	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	813.88	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	90.22
10-20	237.85
20-30	252.70
30-40	111.19
40-50	51.37
50-60	37.51
60-70	22.91
70-80	8.42
80-90	1.73
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	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	85	83	80	79
4	96	88	82	78	94	87	81	77	84	80	76	82	78	75	81	77	74	73
5	91	82	76	72	89	81	75	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	72	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	61	57	54	53
10	71	61	55	52	70	61	55	51	60	55	51	59	55	51	59	54	51	50

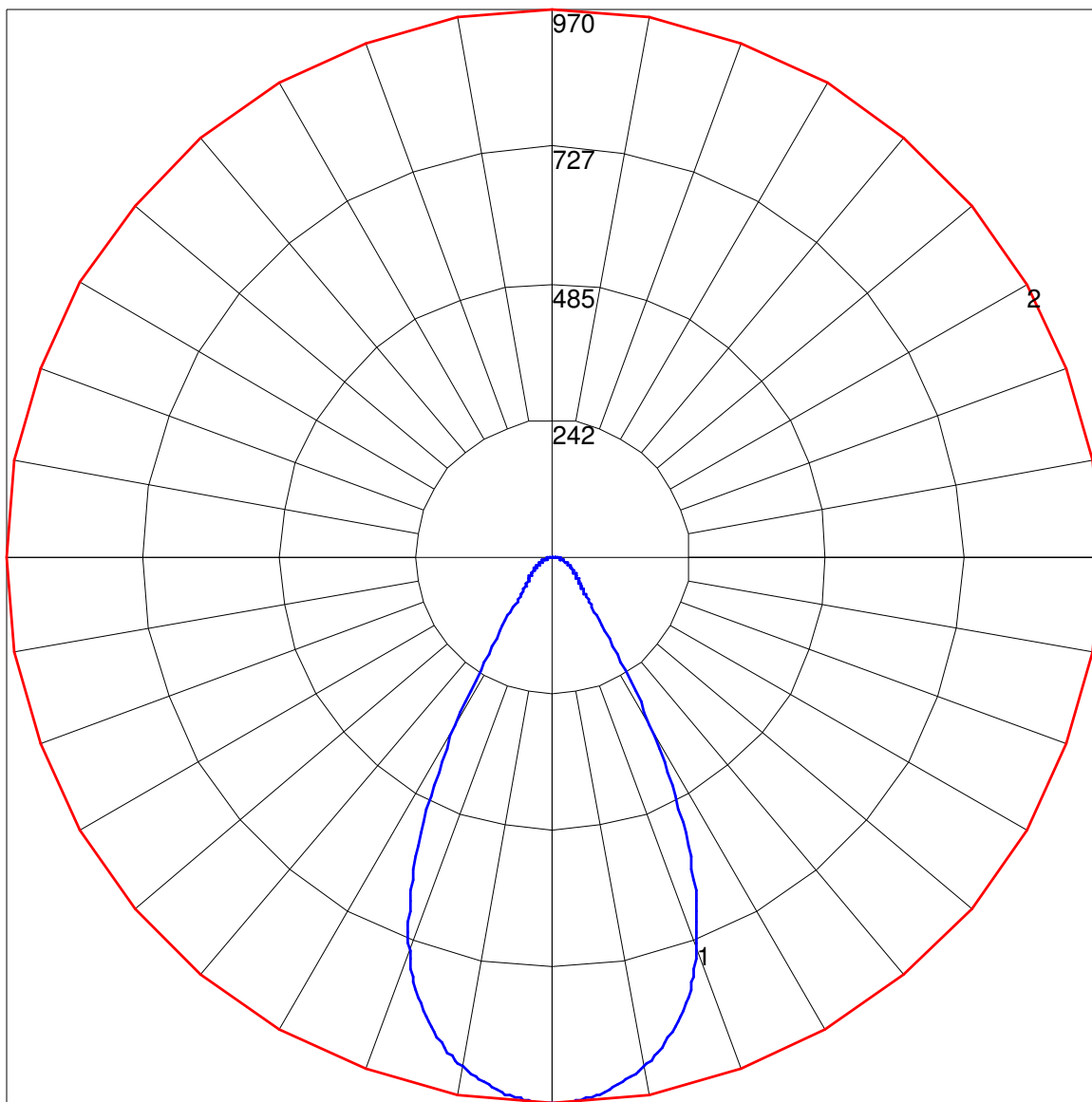
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**UGR TABLE - CORRECTED**

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	18.2	19.3	18.6	19.6	19.9	18.2	19.3	18.6	19.6	19.9
	3H	19.2	20.2	19.6	20.5	20.9	19.2	20.2	19.6	20.5	20.9
	4H	19.4	20.3	19.8	20.7	21.1	19.4	20.3	19.8	20.7	21.1
	6H	19.4	20.3	19.9	20.7	21.0	19.4	20.3	19.9	20.7	21.0
	8H	19.4	20.2	19.9	20.6	21.0	19.4	20.2	19.9	20.6	21.0
	12H	19.4	20.2	19.9	20.6	21.0	19.4	20.2	19.9	20.6	21.0
4H	2H	18.5	19.4	18.9	19.8	20.2	18.5	19.4	18.9	19.8	20.2
	3H	19.7	20.4	20.1	20.9	21.3	19.7	20.4	20.1	20.9	21.3
	4H	19.9	20.6	20.4	21.0	21.5	19.9	20.6	20.4	21.0	21.5
	6H	20.0	20.6	20.5	21.0	21.5	20.0	20.6	20.5	21.0	21.5
	8H	20.0	20.5	20.5	21.0	21.5	20.0	20.5	20.5	21.0	21.5
	12H	20.0	20.5	20.5	21.0	21.4	20.0	20.5	20.5	21.0	21.4
8H	4H	19.9	20.5	20.4	20.9	21.4	19.9	20.5	20.4	20.9	21.4
	6H	20.1	20.5	20.6	21.0	21.5	20.1	20.5	20.6	21.0	21.5
	8H	20.1	20.5	20.6	21.0	21.5	20.1	20.5	20.6	21.0	21.5
	12H	20.1	20.4	20.6	20.9	21.5	20.1	20.4	20.6	20.9	21.5
12H	4H	19.9	20.3	20.4	20.8	21.3	19.9	20.3	20.4	20.8	21.3
	6H	20.0	20.4	20.6	20.9	21.4	20.0	20.4	20.6	20.9	21.4
	8H	20.1	20.4	20.6	20.9	21.5	20.1	20.4	20.6	20.9	21.5

Maximum UGR = 21.5

POLAR GRAPH



Maximum Candela = 969.952 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.)