

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L8-835-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-L8-835-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	798
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	75
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	28608	28608	28608
55	22637	22637	22637
65	16922	16922	16922
75	8811	8811	8811
85	5342	5342	5342

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CANDELA TABULATION

	<u>0</u>
0.0	950.934
0.5	950.934
1.0	950.444
1.5	949.953
2.0	949.953
2.5	948.973
3.0	947.502
3.5	945.542
4.0	943.581
4.5	941.620
5.0	938.679
5.5	936.229
6.0	933.287
6.5	929.856
7.0	926.425
7.5	922.994
8.0	919.563
8.5	915.641
9.0	911.230
9.5	907.308
10.0	902.897
10.5	897.995
11.0	892.603
11.5	887.211
12.0	881.329
12.5	875.447
13.0	869.075
13.5	862.213
14.0	854.860
14.5	847.507
15.0	839.174
15.5	830.842
16.0	821.528
16.5	812.215
17.0	802.412
17.5	792.118
18.0	781.334
18.5	769.570
19.0	757.316
19.5	744.081
20.0	730.356
20.5	716.141
21.0	700.946
21.5	685.260
22.0	668.104
22.5	650.948
23.0	632.812
23.5	614.186
24.0	594.579
24.5	574.972
25.0	554.875
25.5	533.797
26.0	512.230
26.5	490.662

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**CANDELA TABULATION - (Cont.)**

27.0	469.242
27.5	447.723
28.0	426.008
28.5	404.392
29.0	382.285
29.5	360.031
30.0	337.974
30.5	316.259
31.0	294.838
31.5	274.153
32.0	254.252
32.5	235.430
33.0	217.979
33.5	201.804
34.0	186.756
34.5	172.982
35.0	160.482
35.5	149.012
36.0	138.621
36.5	129.307
37.0	121.023
37.5	113.622
38.0	106.907
38.5	100.926
39.0	95.682
39.5	91.074
40.0	86.957
40.5	83.378
41.0	80.192
41.5	77.349
42.0	74.800
42.5	72.545
43.0	70.487
43.5	68.673
44.0	66.957
44.5	65.389
45.0	63.918
45.5	62.497
46.0	61.173
46.5	59.850
47.0	58.625
47.5	57.399
48.0	56.174
48.5	54.997
49.0	53.821
49.5	52.644
50.0	51.517
50.5	50.439
51.0	49.311
51.5	48.233
52.0	47.204
52.5	46.125
53.0	45.096
53.5	44.066
54.0	43.037
54.5	42.008

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**CANDELA TABULATION - (Cont.)**

55.0	41.027
55.5	40.047
56.0	39.067
56.5	38.086
57.0	37.106
57.5	36.175
58.0	35.194
58.5	34.263
59.0	33.332
59.5	32.449
60.0	31.518
60.5	30.587
61.0	29.655
61.5	28.773
62.0	27.842
62.5	26.959
63.0	26.077
63.5	25.195
64.0	24.313
64.5	23.430
65.0	22.597
65.5	21.764
66.0	20.930
66.5	20.048
67.0	19.264
67.5	18.479
68.0	17.646
68.5	16.862
69.0	16.078
69.5	15.293
70.0	14.558
70.5	13.774
71.0	13.039
71.5	12.254
72.0	11.519
72.5	10.784
73.0	10.049
73.5	9.313
74.0	8.627
74.5	7.892
75.0	7.206
75.5	6.568
76.0	5.931
76.5	5.441
77.0	5.000
77.5	4.608
78.0	4.314
78.5	4.068
79.0	3.872
79.5	3.676
80.0	3.431
80.5	3.235
81.0	3.039
81.5	2.843
82.0	2.598
82.5	2.402

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CANDELA TABULATION - (Cont.)

83.0	2.255
83.5	2.059
84.0	1.863
84.5	1.667
85.0	1.471
85.5	1.323
86.0	1.127
86.5	0.980
87.0	0.784
87.5	0.637
88.0	0.490
88.5	0.343
89.0	0.196
89.5	0.147
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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125.5	0.000
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126.5	0.000
127.0	0.000
127.5	0.000
128.0	0.000
128.5	0.000
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130.0	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
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	321.64	N.A.	40.30
0-30	569.38	N.A.	71.40
0-40	678.38	N.A.	85.00
0-60	765.52	N.A.	95.90
0-80	796.23	N.A.	99.80
0-90	797.92	N.A.	100.00
10-90	709.47	N.A.	88.90
20-40	356.75	N.A.	44.70
20-50	407.11	N.A.	51.00
40-70	109.59	N.A.	13.70
60-80	30.71	N.A.	3.80
70-80	8.25	N.A.	1.00
80-90	1.70	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	797.92	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	88.45
10-20	233.18
20-30	247.74
30-40	109.01
40-50	50.36
50-60	36.77
60-70	22.46
70-80	8.25
80-90	1.70
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**

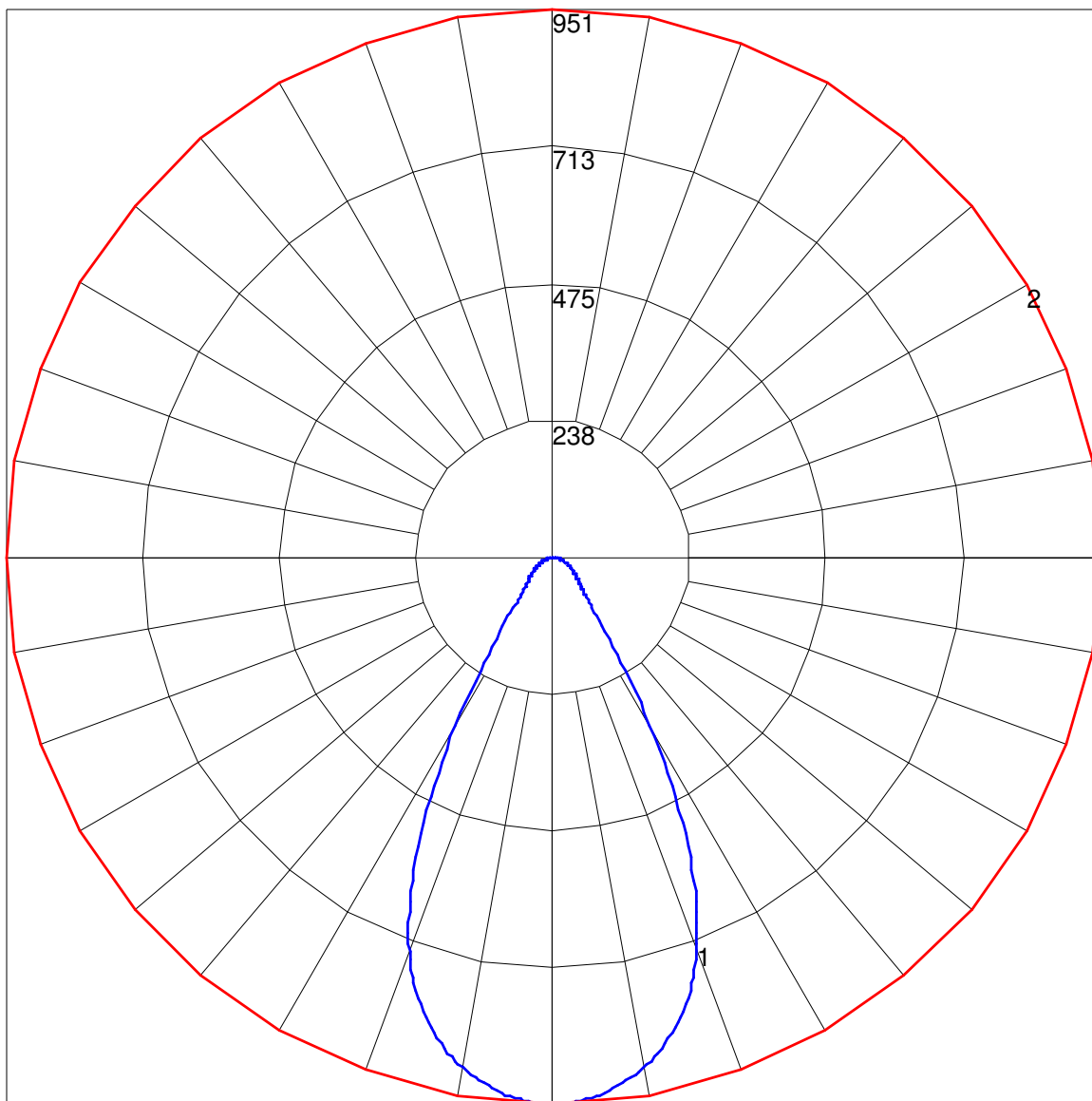
Reflectances

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	18.1	19.2	18.5	19.5	19.8	18.1	19.2	18.5	19.5	19.8
	3H	19.1	20.1	19.5	20.4	20.8	19.1	20.1	19.5	20.4	20.8
	4H	19.3	20.2	19.7	20.6	21.0	19.3	20.2	19.7	20.6	21.0
	6H	19.3	20.2	19.8	20.6	20.9	19.3	20.2	19.8	20.6	20.9
	8H	19.3	20.1	19.8	20.5	20.9	19.3	20.1	19.8	20.5	20.9
	12H	19.3	20.1	19.8	20.5	20.9	19.3	20.1	19.8	20.5	20.9
4H	2H	18.4	19.3	18.8	19.7	20.1	18.4	19.3	18.8	19.7	20.1
	3H	19.6	20.3	20.0	20.8	21.2	19.6	20.3	20.0	20.8	21.2
	4H	19.8	20.5	20.3	20.9	21.4	19.8	20.5	20.3	20.9	21.4
	6H	19.9	20.5	20.4	20.9	21.4	19.9	20.5	20.4	20.9	21.4
	8H	19.9	20.4	20.4	20.9	21.4	19.9	20.4	20.4	20.9	21.4
	12H	19.9	20.4	20.4	20.9	21.3	19.9	20.4	20.4	20.9	21.3
8H	4H	19.8	20.4	20.3	20.8	21.3	19.8	20.4	20.3	20.8	21.3
	6H	20.0	20.4	20.5	20.9	21.4	20.0	20.4	20.5	20.9	21.4
	8H	20.0	20.4	20.5	20.9	21.4	20.0	20.4	20.5	20.9	21.4
	12H	20.0	20.3	20.5	20.8	21.4	20.0	20.3	20.5	20.8	21.4
12H	4H	19.8	20.2	20.3	20.7	21.2	19.8	20.2	20.3	20.7	21.2
	6H	19.9	20.3	20.5	20.8	21.3	19.9	20.3	20.5	20.8	21.3
	8H	20.0	20.3	20.5	20.8	21.4	20.0	20.3	20.5	20.8	21.4

Maximum UGR = 21.4

POLAR GRAPH



Maximum Candela = 950.934 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.)