

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L8-935-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-L8-935-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	654
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	61
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	23459	23459	23459
55	18563	18563	18563
65	13876	13876	13876
75	7225	7225	7225
85	4379	4379	4379

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CANDELA TABULATION

	<u>0</u>
0.0	779.766
0.5	779.766
1.0	779.364
1.5	778.962
2.0	778.962
2.5	778.158
3.0	776.952
3.5	775.344
4.0	773.736
4.5	772.129
5.0	769.717
5.5	767.707
6.0	765.296
6.5	762.482
7.0	759.668
7.5	756.855
8.0	754.041
8.5	750.826
9.0	747.208
9.5	743.993
10.0	740.375
10.5	736.356
11.0	731.935
11.5	727.513
12.0	722.690
12.5	717.867
13.0	712.641
13.5	707.014
14.0	700.985
14.5	694.956
15.0	688.123
15.5	681.290
16.0	673.653
16.5	666.016
17.0	657.977
17.5	649.537
18.0	640.694
18.5	631.047
19.0	620.999
19.5	610.146
20.0	598.892
20.5	587.236
21.0	574.776
21.5	561.914
22.0	547.846
22.5	533.778
23.0	518.906
23.5	503.632
24.0	487.554
24.5	471.477
25.0	454.997
25.5	437.714
26.0	420.028
26.5	402.343

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**CANDELA TABULATION - (Cont.)**

27.0	384.778
27.5	367.133
28.0	349.327
28.5	331.601
29.0	313.474
29.5	295.226
30.0	277.138
30.5	259.332
31.0	241.768
31.5	224.806
32.0	208.487
32.5	193.052
33.0	178.743
33.5	165.479
34.0	153.140
34.5	141.845
35.0	131.595
35.5	122.190
36.0	113.669
36.5	106.032
37.0	99.239
37.5	93.170
38.0	87.663
38.5	82.760
39.0	78.459
39.5	74.681
40.0	71.304
40.5	68.370
41.0	65.758
41.5	63.426
42.0	61.336
42.5	59.487
43.0	57.799
43.5	56.312
44.0	54.905
44.5	53.619
45.0	52.413
45.5	51.247
46.0	50.162
46.5	49.077
47.0	48.072
47.5	47.067
48.0	46.062
48.5	45.098
49.0	44.133
49.5	43.168
50.0	42.244
50.5	41.360
51.0	40.435
51.5	39.551
52.0	38.707
52.5	37.823
53.0	36.979
53.5	36.134
54.0	35.290
54.5	34.446

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**CANDELA TABULATION - (Cont.)**

55.0	33.642
55.5	32.839
56.0	32.035
56.5	31.231
57.0	30.427
57.5	29.663
58.0	28.859
58.5	28.096
59.0	27.332
59.5	26.608
60.0	25.845
60.5	25.081
61.0	24.317
61.5	23.594
62.0	22.830
62.5	22.107
63.0	21.383
63.5	20.660
64.0	19.936
64.5	19.213
65.0	18.529
65.5	17.846
66.0	17.163
66.5	16.439
67.0	15.796
67.5	15.153
68.0	14.470
68.5	13.827
69.0	13.184
69.5	12.541
70.0	11.938
70.5	11.295
71.0	10.692
71.5	10.049
72.0	9.446
72.5	8.843
73.0	8.240
73.5	7.637
74.0	7.074
74.5	6.471
75.0	5.909
75.5	5.386
76.0	4.863
76.5	4.462
77.0	4.100
77.5	3.778
78.0	3.537
78.5	3.336
79.0	3.175
79.5	3.015
80.0	2.814
80.5	2.653
81.0	2.492
81.5	2.331
82.0	2.130
82.5	1.970

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CANDELA TABULATION - (Cont.)

83.0	1.849
83.5	1.688
84.0	1.527
84.5	1.367
85.0	1.206
85.5	1.085
86.0	0.924
86.5	0.804
87.0	0.643
87.5	0.523
88.0	0.402
88.5	0.281
89.0	0.161
89.5	0.121
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
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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
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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	263.74	N.A.	40.30
0-30	466.89	N.A.	71.40
0-40	556.28	N.A.	85.00
0-60	627.72	N.A.	95.90
0-80	652.91	N.A.	99.80
0-90	654.30	N.A.	100.00
10-90	581.77	N.A.	88.90
20-40	292.53	N.A.	44.70
20-50	333.83	N.A.	51.00
40-70	89.86	N.A.	13.70
60-80	25.18	N.A.	3.80
70-80	6.77	N.A.	1.00
80-90	1.39	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	654.30	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	72.53
10-20	191.21
20-30	203.15
30-40	89.38
40-50	41.30
50-60	30.15
60-70	18.42
70-80	6.77
80-90	1.39
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	111	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	86	83	80	79
4	96	88	82	78	94	87	81	77	85	80	76	83	79	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	73	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	62	57	54	53
10	71	61	55	52	70	61	55	51	60	55	51	59	55	51	59	54	51	50

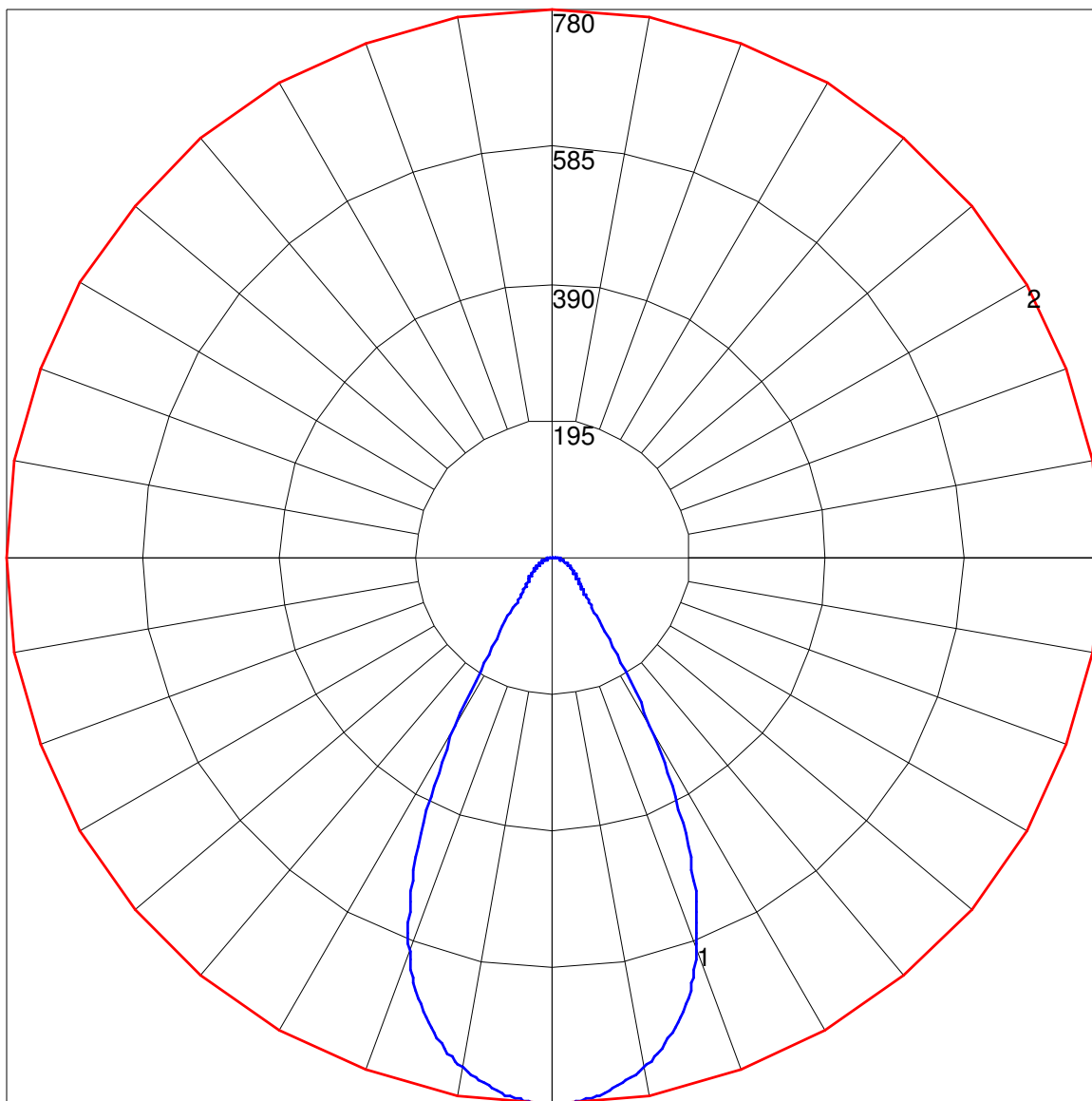
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**UGR TABLE - CORRECTED**

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	17.5	18.6	17.9	18.9	19.2	17.5	18.6	17.9	18.9	19.2
	3H	18.5	19.5	18.9	19.8	20.2	18.5	19.5	18.9	19.8	20.2
	4H	18.7	19.6	19.1	20.0	20.4	18.7	19.6	19.1	20.0	20.4
	6H	18.7	19.6	19.2	20.0	20.3	18.7	19.6	19.2	20.0	20.3
	8H	18.7	19.5	19.2	19.9	20.3	18.7	19.5	19.2	19.9	20.3
	12H	18.7	19.5	19.2	19.9	20.3	18.7	19.5	19.2	19.9	20.3
4H	2H	17.8	18.7	18.2	19.1	19.5	17.8	18.7	18.2	19.1	19.5
	3H	19.0	19.7	19.4	20.2	20.6	19.0	19.7	19.4	20.2	20.6
	4H	19.2	19.9	19.7	20.3	20.8	19.2	19.9	19.7	20.3	20.8
	6H	19.3	19.9	19.8	20.3	20.8	19.3	19.9	19.8	20.3	20.8
	8H	19.3	19.8	19.8	20.3	20.8	19.3	19.8	19.8	20.3	20.8
	12H	19.3	19.8	19.8	20.3	20.7	19.3	19.8	19.8	20.3	20.7
8H	4H	19.2	19.8	19.7	20.2	20.7	19.2	19.8	19.7	20.2	20.7
	6H	19.4	19.8	19.9	20.3	20.8	19.4	19.8	19.9	20.3	20.8
	8H	19.4	19.8	19.9	20.3	20.8	19.4	19.8	19.9	20.3	20.8
	12H	19.4	19.7	19.9	20.2	20.8	19.4	19.7	19.9	20.2	20.8
12H	4H	19.2	19.6	19.7	20.1	20.6	19.2	19.6	19.7	20.1	20.6
	6H	19.3	19.7	19.9	20.2	20.7	19.3	19.7	19.9	20.2	20.7
	8H	19.4	19.7	19.9	20.2	20.8	19.4	19.7	19.9	20.2	20.8

Maximum UGR = 20.8

POLAR GRAPH



Maximum Candela = 779.766 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.)