

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L8-935-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-L8-935-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	674
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	63
Total Luminaire Watts	10.7
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	27802	27802	27802
55	24282	24282	24282
65	20743	20743	20743
75	16735	16735	16735
85	9372	9372	9372

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CANDELA TABULATION

	<u>0</u>
0.0	795.326
0.5	794.917
1.0	794.917
1.5	794.507
2.0	794.097
2.5	792.868
3.0	791.639
3.5	790.409
4.0	788.770
4.5	786.722
5.0	784.673
5.5	782.624
6.0	780.575
6.5	778.117
7.0	775.658
7.5	773.200
8.0	770.331
8.5	767.463
9.0	764.185
9.5	760.907
10.0	757.219
10.5	753.122
11.0	749.024
11.5	744.517
12.0	740.010
12.5	734.683
13.0	729.356
13.5	723.620
14.0	717.474
14.5	710.918
15.0	703.952
15.5	696.167
16.0	688.381
16.5	679.777
17.0	670.352
17.5	660.928
18.0	650.275
18.5	639.211
19.0	626.919
19.5	613.807
20.0	600.285
20.5	585.534
21.0	570.373
21.5	553.983
22.0	536.774
22.5	519.154
23.0	500.715
23.5	481.867
24.0	462.609
24.5	442.941
25.0	422.863
25.5	402.990
26.0	382.871
26.5	362.957

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CANDELA TABULATION - (Cont.)

27.0	343.330
27.5	324.113
28.0	305.305
28.5	286.948
29.0	269.165
29.5	251.833
30.0	235.566
30.5	220.200
31.0	205.695
31.5	192.173
32.0	179.512
32.5	167.752
33.0	156.976
33.5	147.101
34.0	138.127
34.5	129.932
35.0	122.475
35.5	115.714
36.0	109.608
36.5	104.159
37.0	99.242
37.5	94.857
38.0	90.924
38.5	87.359
39.0	84.163
39.5	81.295
40.0	78.672
40.5	76.337
41.0	74.206
41.5	72.239
42.0	70.436
42.5	68.756
43.0	67.240
43.5	65.847
44.0	64.536
44.5	63.306
45.0	62.118
45.5	61.012
46.0	59.947
46.5	58.922
47.0	57.939
47.5	56.955
48.0	56.013
48.5	55.071
49.0	54.128
49.5	53.227
50.0	52.366
50.5	51.506
51.0	50.604
51.5	49.785
52.0	48.924
52.5	48.105
53.0	47.285
53.5	46.466
54.0	45.646
54.5	44.827

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CANDELA TABULATION - (Cont.)

55.0	44.007
55.5	43.188
56.0	42.409
56.5	41.549
57.0	40.770
57.5	39.951
58.0	39.131
58.5	38.312
59.0	37.492
59.5	36.673
60.0	35.853
60.5	35.034
61.0	34.214
61.5	33.354
62.0	32.575
62.5	31.756
63.0	30.895
63.5	30.076
64.0	29.256
64.5	28.478
65.0	27.699
65.5	26.921
66.0	26.142
66.5	25.405
67.0	24.626
67.5	23.929
68.0	23.192
68.5	22.495
69.0	21.799
69.5	21.061
70.0	20.365
70.5	19.668
71.0	19.012
71.5	18.316
72.0	17.619
72.5	16.964
73.0	16.267
73.5	15.612
74.0	14.997
74.5	14.341
75.0	13.686
75.5	13.071
76.0	12.456
76.5	11.842
77.0	11.268
77.5	10.654
78.0	10.080
78.5	9.506
79.0	8.933
79.5	8.359
80.0	7.826
80.5	7.253
81.0	6.720
81.5	6.187
82.0	5.655
82.5	5.122

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CANDELA TABULATION - (Cont.)

83.0	4.630
83.5	4.098
84.0	3.606
84.5	3.073
85.0	2.581
85.5	2.049
86.0	1.516
86.5	1.147
87.0	0.820
87.5	0.492
88.0	0.328
88.5	0.246
89.0	0.164
89.5	0.123
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
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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
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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
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
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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	268.88	N.A.	39.90
0-30	458.40	N.A.	68.00
0-40	540.74	N.A.	80.20
0-60	628.76	N.A.	93.30
0-80	670.88	N.A.	99.50
0-90	674.13	N.A.	100.00
10-90	600.08	N.A.	89.00
20-40	271.86	N.A.	40.30
20-50	320.51	N.A.	47.50
40-70	115.55	N.A.	17.10
60-80	42.13	N.A.	6.20
70-80	14.59	N.A.	2.20
80-90	3.25	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	674.13	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	74.05
10-20	194.83
20-30	189.52
30-40	82.34
40-50	48.65
50-60	39.36
60-70	27.54
70-80	14.59
80-90	3.25
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	98	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	93	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	63	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	63	57	53	62	56	52	61	56	52	60	55	52	51
10	70	60	54	50	69	59	54	50	58	53	49	58	53	49	57	52	49	48

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**UGR TABLE - CORRECTED**

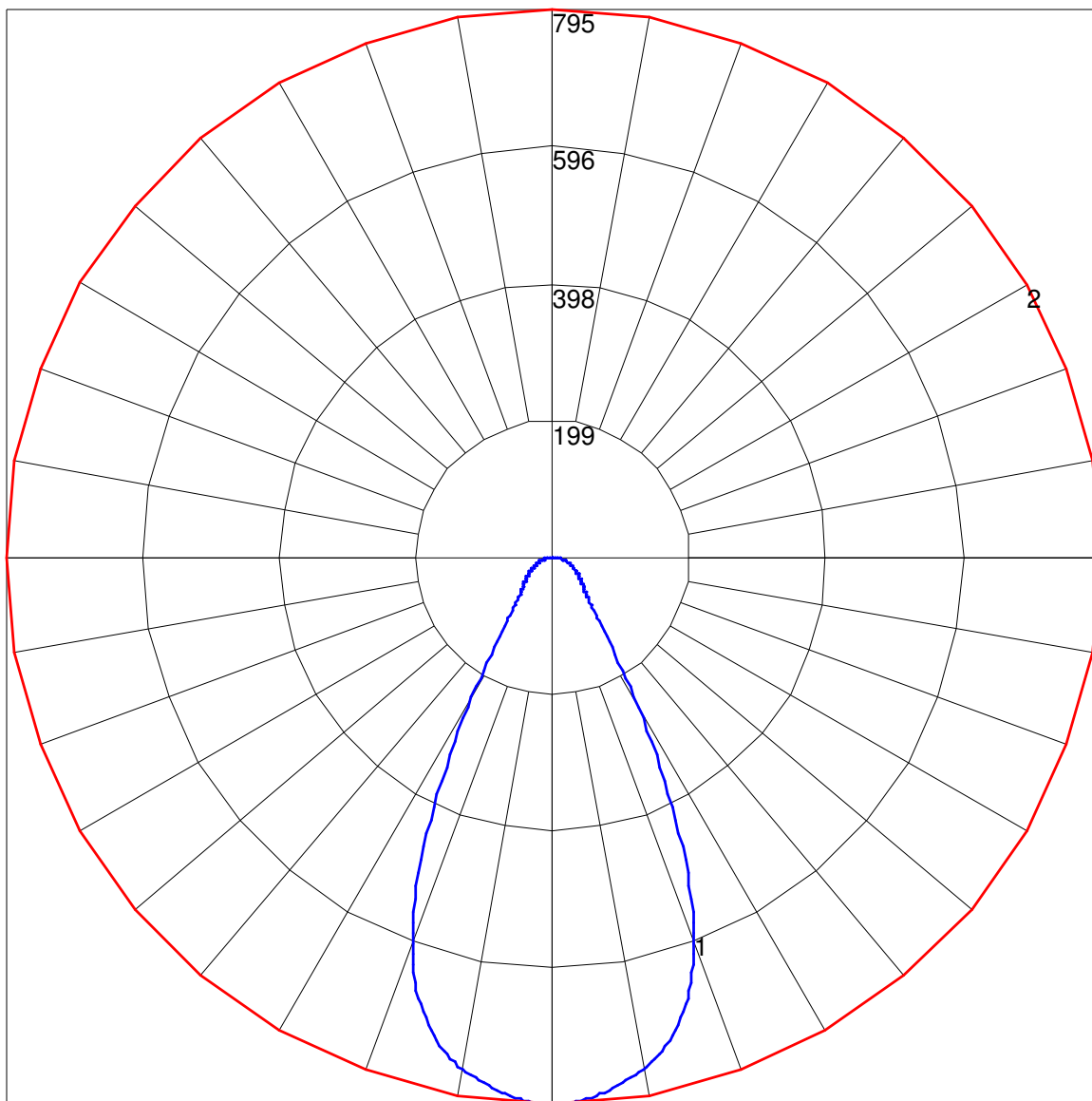
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	19.4	20.5	19.7	20.9	21.2	19.4	20.5	19.7	20.9	21.2
	3H	20.9	21.9	21.3	22.2	22.6	20.9	21.9	21.3	22.2	22.6
	4H	21.4	22.4	21.8	22.7	23.1	21.4	22.4	21.8	22.7	23.1
	6H	21.7	22.6	22.1	23.0	23.4	21.7	22.6	22.1	23.0	23.4
	8H	21.8	22.7	22.2	23.0	23.5	21.8	22.7	22.2	23.0	23.5
	12H	21.8	22.6	22.3	23.0	23.5	21.8	22.6	22.3	23.0	23.5
4H	2H	19.9	20.8	20.3	21.2	21.5	19.9	20.8	20.3	21.2	21.5
	3H	21.5	22.3	21.9	22.7	23.1	21.5	22.3	21.9	22.7	23.1
	4H	22.2	22.9	22.6	23.3	23.7	22.2	22.9	22.6	23.3	23.7
	6H	22.6	23.2	23.1	23.7	24.2	22.6	23.2	23.1	23.7	24.2
	8H	22.7	23.3	23.2	23.8	24.2	22.7	23.3	23.2	23.8	24.2
	12H	22.8	23.3	23.3	23.8	24.3	22.8	23.3	23.3	23.8	24.3
8H	4H	22.4	22.9	22.8	23.4	23.8	22.4	22.9	22.8	23.4	23.8
	6H	22.9	23.4	23.4	23.9	24.4	22.9	23.4	23.4	23.9	24.4
	8H	23.1	23.5	23.6	24.0	24.5	23.1	23.5	23.6	24.0	24.5
	12H	23.2	23.6	23.7	24.1	24.6	23.2	23.6	23.7	24.1	24.6
12H	4H	22.3	22.9	22.8	23.3	23.8	22.3	22.9	22.8	23.3	23.8
	6H	22.9	23.4	23.5	23.8	24.4	22.9	23.4	23.5	23.8	24.4
	8H	23.2	23.5	23.7	24.0	24.6	23.2	23.5	23.7	24.0	24.6

Maximum UGR = 24.6

POLAR GRAPH



Maximum Candela = 795.326 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.)