

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L5-935-DIM-UNV-RW-OF-CS\_.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-L5-935-DIM-UNV-RW-OF-CS\_  
[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	394
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	59
Total Luminaire Watts	6.7
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	14116	14116	14116
55	11171	11171	11171
65	8350	8350	8350
75	4347	4347	4347
85	2636	2636	2636

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CANDELA TABULATION

	<u>0</u>
0.0	469.227
0.5	469.227
1.0	468.986
1.5	468.744
2.0	468.744
2.5	468.260
3.0	467.534
3.5	466.567
4.0	465.599
4.5	464.632
5.0	463.181
5.5	461.971
6.0	460.520
6.5	458.827
7.0	457.134
7.5	455.441
8.0	453.748
8.5	451.813
9.0	449.636
9.5	447.701
10.0	445.524
10.5	443.105
11.0	440.445
11.5	437.784
12.0	434.882
12.5	431.979
13.0	428.835
13.5	425.449
14.0	421.821
14.5	418.193
15.0	414.081
15.5	409.969
16.0	405.374
16.5	400.778
17.0	395.941
17.5	390.862
18.0	385.540
18.5	379.736
19.0	373.689
19.5	367.158
20.0	360.386
20.5	353.372
21.0	345.874
21.5	338.134
22.0	329.669
22.5	321.203
23.0	312.254
23.5	303.063
24.0	293.388
24.5	283.713
25.0	273.797
25.5	263.396
26.0	252.754
26.5	242.112

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**CANDELA TABULATION - (Cont.)**

27.0	231.542
27.5	220.924
28.0	210.209
28.5	199.543
29.0	188.634
29.5	177.653
30.0	166.769
30.5	156.054
31.0	145.485
31.5	135.278
32.0	125.458
32.5	116.170
33.0	107.560
33.5	99.578
34.0	92.152
34.5	85.356
35.0	79.188
35.5	73.528
36.0	68.401
36.5	63.805
37.0	59.718
37.5	56.065
38.0	52.752
38.5	49.801
39.0	47.213
39.5	44.939
40.0	42.908
40.5	41.142
41.0	39.570
41.5	38.167
42.0	36.909
42.5	35.797
43.0	34.781
43.5	33.886
44.0	33.039
44.5	32.265
45.0	31.540
45.5	30.838
46.0	30.185
46.5	29.532
47.0	28.928
47.5	28.323
48.0	27.718
48.5	27.138
49.0	26.557
49.5	25.977
50.0	25.421
50.5	24.888
51.0	24.332
51.5	23.800
52.0	23.292
52.5	22.760
53.0	22.252
53.5	21.744
54.0	21.236
54.5	20.728

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**CANDELA TABULATION - (Cont.)**

55.0	20.245
55.5	19.761
56.0	19.277
56.5	18.793
57.0	18.310
57.5	17.850
58.0	17.366
58.5	16.907
59.0	16.447
59.5	16.012
60.0	15.552
60.5	15.093
61.0	14.633
61.5	14.198
62.0	13.738
62.5	13.303
63.0	12.867
63.5	12.432
64.0	11.997
64.5	11.561
65.0	11.150
65.5	10.739
66.0	10.328
66.5	9.892
67.0	9.505
67.5	9.118
68.0	8.707
68.5	8.320
69.0	7.933
69.5	7.546
70.0	7.184
70.5	6.797
71.0	6.434
71.5	6.047
72.0	5.684
72.5	5.321
73.0	4.958
73.5	4.596
74.0	4.257
74.5	3.894
75.0	3.555
75.5	3.241
76.0	2.927
76.5	2.685
77.0	2.467
77.5	2.274
78.0	2.128
78.5	2.008
79.0	1.911
79.5	1.814
80.0	1.693
80.5	1.596
81.0	1.500
81.5	1.403
82.0	1.282
82.5	1.185

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CANDELA TABULATION - (Cont.)

83.0	1.113
83.5	1.016
84.0	0.919
84.5	0.822
85.0	0.726
85.5	0.653
86.0	0.556
86.5	0.484
87.0	0.387
87.5	0.314
88.0	0.242
88.5	0.169
89.0	0.097
89.5	0.073
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
129.5	0.000
130.0	0.000
130.5	0.000
131.0	0.000
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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	158.71	N.A.	40.30
0-30	280.95	N.A.	71.40
0-40	334.74	N.A.	85.00
0-60	377.74	N.A.	95.90
0-80	392.89	N.A.	99.80
0-90	393.73	N.A.	100.00
10-90	350.08	N.A.	88.90
20-40	176.03	N.A.	44.70
20-50	200.88	N.A.	51.00
40-70	54.08	N.A.	13.70
60-80	15.15	N.A.	3.80
70-80	4.07	N.A.	1.00
80-90	0.84	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	393.73	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	43.65
10-20	115.06
20-30	122.25
30-40	53.79
40-50	24.85
50-60	18.14
60-70	11.08
70-80	4.07
80-90	0.84
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	96	95	94	92
2	107	102	97	94	105	100	96	93	97	93	90	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	78
4	96	88	82	77	94	87	81	77	84	80	76	82	78	75	81	77	74	73
5	91	82	76	71	89	81	75	71	79	74	70	78	73	70	76	72	69	68
6	86	77	71	66	85	76	70	66	75	69	66	73	69	65	72	68	65	63
7	82	72	66	62	81	72	66	62	70	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	74	65	59	55	73	64	58	54	63	58	54	62	58	54	61	57	54	53
10	71	61	55	52	70	61	55	51	60	55	51	59	54	51	59	54	51	50

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**UGR TABLE - CORRECTED**

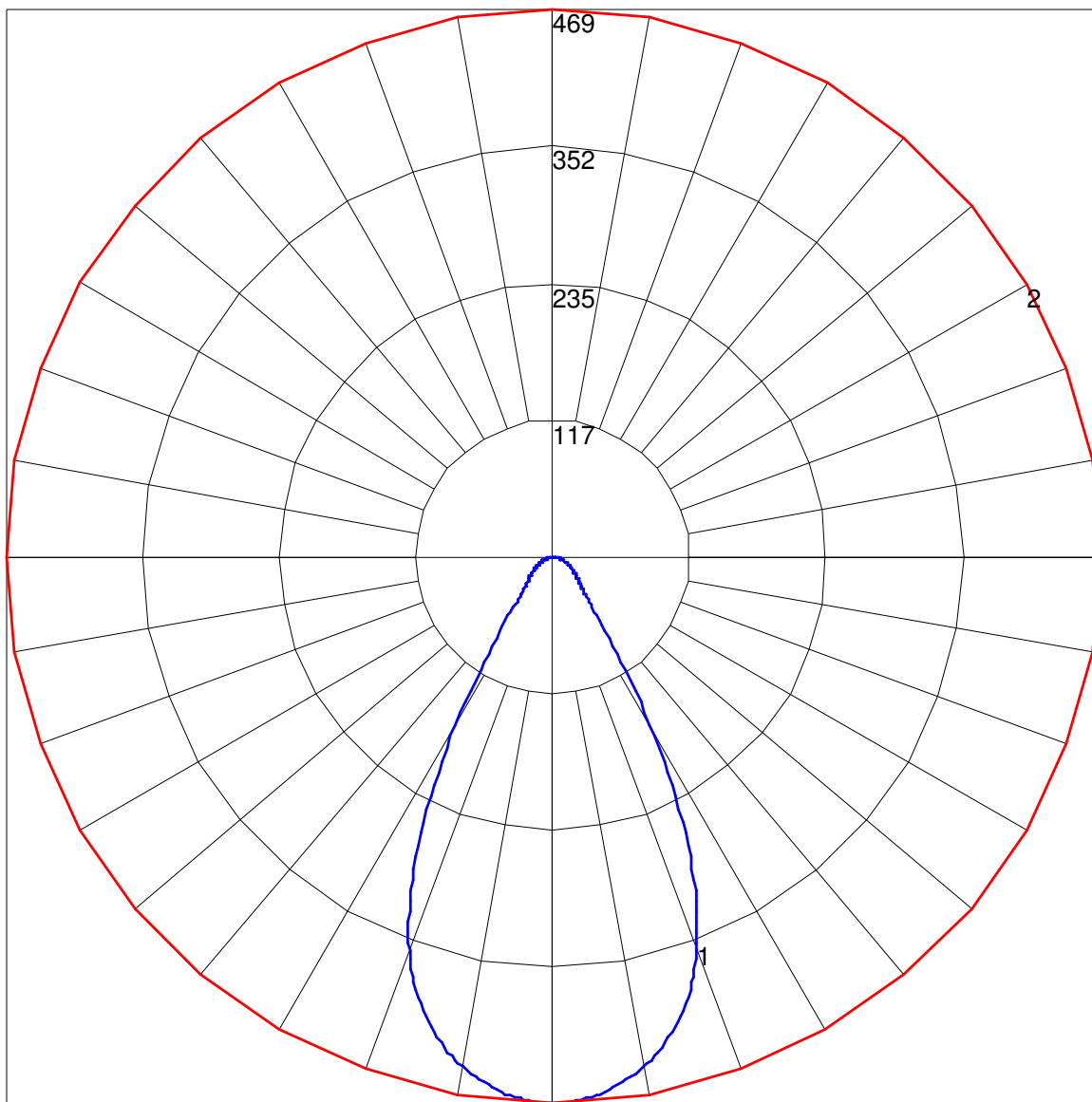
Reflectances

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	15.7	16.8	16.1	17.1	17.4	15.7	16.8	16.1	17.1	17.4
	3H	16.7	17.7	17.1	18.0	18.4	16.7	17.7	17.1	18.0	18.4
	4H	16.9	17.8	17.3	18.2	18.6	16.9	17.8	17.3	18.2	18.6
	6H	16.9	17.8	17.4	18.2	18.6	16.9	17.8	17.4	18.2	18.6
	8H	16.9	17.7	17.4	18.1	18.5	16.9	17.7	17.4	18.1	18.5
	12H	16.9	17.7	17.4	18.1	18.5	16.9	17.7	17.4	18.1	18.5
4H	2H	16.0	16.9	16.4	17.3	17.7	16.0	16.9	16.4	17.3	17.7
	3H	17.2	17.9	17.6	18.4	18.8	17.2	17.9	17.6	18.4	18.8
	4H	17.4	18.1	17.9	18.5	19.0	17.4	18.1	17.9	18.5	19.0
	6H	17.5	18.1	18.0	18.5	19.0	17.5	18.1	18.0	18.5	19.0
	8H	17.5	18.0	18.0	18.5	19.0	17.5	18.0	18.0	18.5	19.0
	12H	17.5	18.0	18.0	18.5	18.9	17.5	18.0	18.0	18.5	18.9
8H	4H	17.4	18.0	17.9	18.4	18.9	17.4	18.0	17.9	18.4	18.9
	6H	17.6	18.0	18.1	18.5	19.0	17.6	18.0	18.1	18.5	19.0
	8H	17.6	18.0	18.1	18.5	19.0	17.6	18.0	18.1	18.5	19.0
	12H	17.6	17.9	18.1	18.4	19.0	17.6	17.9	18.1	18.4	19.0
12H	4H	17.4	17.9	17.9	18.3	18.8	17.4	17.9	17.9	18.3	18.8
	6H	17.5	17.9	18.1	18.4	18.9	17.5	17.9	18.1	18.4	18.9
	8H	17.6	17.9	18.1	18.4	19.0	17.6	17.9	18.1	18.4	19.0

Maximum UGR = 19.0

POLAR GRAPH



Maximum Candela = 469.227 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.)