

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L18-950-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-L18-950-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	1542
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	65
Total Luminaire Watts	23.9
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	55271	55271	55271
55	43736	43736	43736
65	32694	32694	32694
75	17022	17022	17022
85	10316	10316	10316

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CANDELA TABULATION

	<u>0</u>
0.0	1837.232
0.5	1837.232
1.0	1836.285
1.5	1835.338
2.0	1835.338
2.5	1833.444
3.0	1830.603
3.5	1826.815
4.0	1823.027
4.5	1819.239
5.0	1813.557
5.5	1808.822
6.0	1803.139
6.5	1796.510
7.0	1789.881
7.5	1783.252
8.0	1776.623
8.5	1769.046
9.0	1760.523
9.5	1752.947
10.0	1744.424
10.5	1734.954
11.0	1724.536
11.5	1714.119
12.0	1702.755
12.5	1691.390
13.0	1679.079
13.5	1665.821
14.0	1651.615
14.5	1637.410
15.0	1621.310
15.5	1605.211
16.0	1587.217
16.5	1569.224
17.0	1550.283
17.5	1530.396
18.0	1509.561
18.5	1486.832
19.0	1463.157
19.5	1437.587
20.0	1411.070
20.5	1383.606
21.0	1354.249
21.5	1323.944
22.0	1290.798
22.5	1257.652
23.0	1222.612
23.5	1186.625
24.0	1148.744
24.5	1110.863
25.0	1072.035
25.5	1031.312
26.0	989.643
26.5	947.974

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**CANDELA TABULATION - (Cont.)**

27.0	906.589
27.5	865.014
28.0	823.061
28.5	781.297
29.0	738.586
29.5	695.591
30.0	652.975
30.5	611.022
31.0	569.637
31.5	529.672
32.0	491.223
32.5	454.857
33.0	421.143
33.5	389.891
34.0	360.817
34.5	334.206
35.0	310.057
35.5	287.896
36.0	267.819
36.5	249.826
37.0	233.821
37.5	219.521
38.0	206.547
38.5	194.993
39.0	184.860
39.5	175.958
40.0	168.003
40.5	161.089
41.0	154.934
41.5	149.441
42.0	144.516
42.5	140.160
43.0	136.182
43.5	132.678
44.0	129.364
44.5	126.333
45.0	123.492
45.5	120.746
46.0	118.189
46.5	115.632
47.0	113.264
47.5	110.897
48.0	108.529
48.5	106.256
49.0	103.984
49.5	101.711
50.0	99.533
50.5	97.449
51.0	95.271
51.5	93.187
52.0	91.199
52.5	89.115
53.0	87.126
53.5	85.138
54.0	83.149
54.5	81.160

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CANDELA TABULATION - (Cont.)

55.0	79.266
55.5	77.372
56.0	75.478
56.5	73.584
57.0	71.690
57.5	69.891
58.0	67.997
58.5	66.197
59.0	64.398
59.5	62.693
60.0	60.894
60.5	59.094
61.0	57.295
61.5	55.590
62.0	53.791
62.5	52.086
63.0	50.382
63.5	48.677
64.0	46.973
64.5	45.268
65.0	43.658
65.5	42.048
66.0	40.438
66.5	38.733
67.0	37.218
67.5	35.703
68.0	34.093
68.5	32.578
69.0	31.062
69.5	29.547
70.0	28.127
70.5	26.611
71.0	25.191
71.5	23.676
72.0	22.255
72.5	20.835
73.0	19.414
73.5	17.994
74.0	16.668
74.5	15.247
75.0	13.921
75.5	12.690
76.0	11.459
76.5	10.512
77.0	9.660
77.5	8.902
78.0	8.334
78.5	7.860
79.0	7.482
79.5	7.103
80.0	6.629
80.5	6.250
81.0	5.872
81.5	5.493
82.0	5.019
82.5	4.640

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CANDELA TABULATION - (Cont.)

83.0	4.356
83.5	3.978
84.0	3.599
84.5	3.220
85.0	2.841
85.5	2.557
86.0	2.178
86.5	1.894
87.0	1.515
87.5	1.231
88.0	0.947
88.5	0.663
89.0	0.379
89.5	0.284
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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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
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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	621.41	N.A.	40.30
0-30	1100.06	N.A.	71.40
0-40	1310.66	N.A.	85.00
0-60	1479.00	N.A.	95.90
0-80	1538.34	N.A.	99.80
0-90	1541.61	N.A.	100.00
10-90	1370.72	N.A.	88.90
20-40	689.25	N.A.	44.70
20-50	786.55	N.A.	51.00
40-70	211.73	N.A.	13.70
60-80	59.34	N.A.	3.80
70-80	15.94	N.A.	1.00
80-90	3.28	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	1541.61	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	170.89
10-20	450.52
20-30	478.65
30-40	210.60
40-50	97.30
50-60	71.04
60-70	43.39
70-80	15.94
80-90	3.28
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	71	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	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	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

X=2H	Y=2H	20.4	21.5	20.8	21.8	22.1	20.4	21.5	20.8	21.8	22.1
	3H	21.4	22.4	21.8	22.7	23.1	21.4	22.4	21.8	22.7	23.1
	4H	21.6	22.5	22.0	22.9	23.3	21.6	22.5	22.0	22.9	23.3
	6H	21.6	22.5	22.1	22.9	23.2	21.6	22.5	22.1	22.9	23.2
	8H	21.6	22.4	22.1	22.8	23.2	21.6	22.4	22.1	22.8	23.2
	12H	21.6	22.4	22.1	22.8	23.2	21.6	22.4	22.1	22.8	23.2

UGR Viewed Endwise

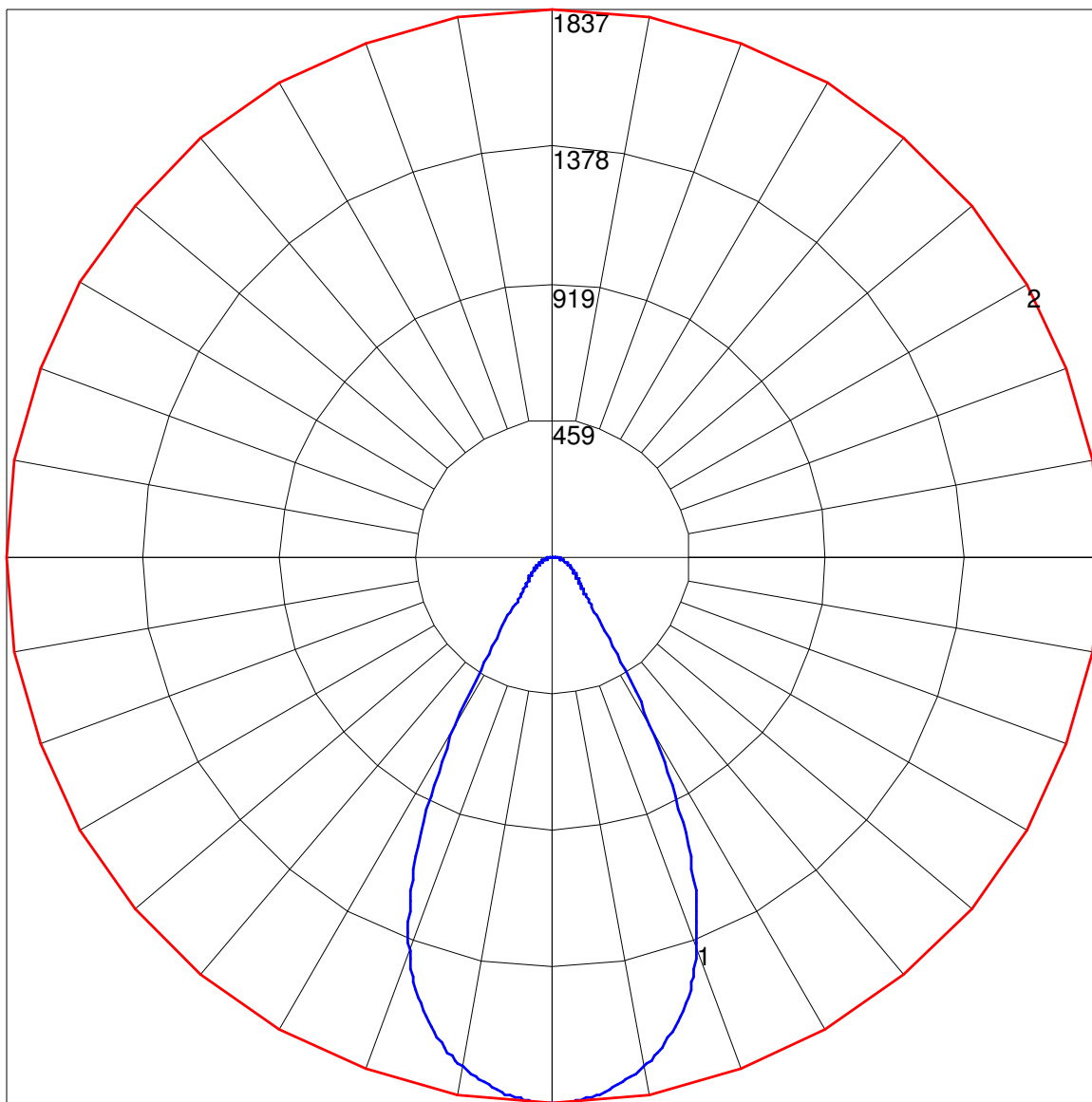
4H	2H	20.7	21.6	21.1	22.0	22.4	20.7	21.6	21.1	22.0	22.4
	3H	21.9	22.6	22.3	23.1	23.5	21.9	22.6	22.3	23.1	23.5
	4H	22.1	22.8	22.6	23.2	23.7	22.1	22.8	22.6	23.2	23.7
	6H	22.2	22.8	22.7	23.2	23.7	22.2	22.8	22.7	23.2	23.7
	8H	22.2	22.7	22.7	23.2	23.7	22.2	22.7	22.7	23.2	23.7
	12H	22.2	22.7	22.7	23.2	23.6	22.2	22.7	22.7	23.2	23.6

8H	4H	22.1	22.7	22.6	23.1	23.6	22.1	22.7	22.6	23.1	23.6
	6H	22.3	22.7	22.8	23.2	23.7	22.3	22.7	22.8	23.2	23.7
	8H	22.3	22.7	22.8	23.2	23.7	22.3	22.7	22.8	23.2	23.7
	12H	22.3	22.6	22.8	23.1	23.7	22.3	22.6	22.8	23.1	23.7

12H	4H	22.1	22.5	22.6	23.0	23.5	22.1	22.5	22.6	23.0	23.5
	6H	22.2	22.6	22.8	23.1	23.6	22.2	22.6	22.8	23.1	23.6
	8H	22.3	22.6	22.8	23.1	23.7	22.3	22.6	22.8	23.1	23.7

Maximum UGR = 23.7

POLAR GRAPH



Maximum Candela = 1837.232 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.)