

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L18-950-DIM-UNV-RW-OF-BL\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] GEN FROM 13257153.03  
[TESTLAB] UL Verification Services Inc.  
[ISSUEDATE] 2025-05-20  
[MANUFAC] WILLIAMS INDOOR  
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
[LUMCAT] V2DR-L18-950-DIM-UNV-RW-OF-BL\_  
[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	1218
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	51
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	43665	43665	43665
55	34552	34552	34552
65	25828	25828	25828
75	13448	13448	13448
85	8148	8148	8148

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CANDELA TABULATION

	<u>0</u>
0.0	1451.414
0.5	1451.414
1.0	1450.666
1.5	1449.917
2.0	1449.917
2.5	1448.421
3.0	1446.177
3.5	1443.184
4.0	1440.191
4.5	1437.199
5.0	1432.710
5.5	1428.969
6.0	1424.480
6.5	1419.243
7.0	1414.006
7.5	1408.769
8.0	1403.532
8.5	1397.547
9.0	1390.813
9.5	1384.828
10.0	1378.095
10.5	1370.613
11.0	1362.384
11.5	1354.154
12.0	1345.176
12.5	1336.198
13.0	1326.472
13.5	1315.998
14.0	1304.776
14.5	1293.554
15.0	1280.835
15.5	1268.117
16.0	1253.902
16.5	1239.687
17.0	1224.724
17.5	1209.013
18.0	1192.553
18.5	1174.598
19.0	1155.894
19.5	1135.694
20.0	1114.746
20.5	1093.049
21.0	1069.857
21.5	1045.916
22.0	1019.730
22.5	993.545
23.0	965.863
23.5	937.434
24.0	907.508
24.5	877.582
25.0	846.907
25.5	814.737
26.0	781.818
26.5	748.900

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**CANDELA TABULATION - (Cont.)**

27.0	716.205
27.5	683.362
28.0	650.218
28.5	617.225
29.0	583.483
29.5	549.517
30.0	515.850
30.5	482.707
31.0	450.013
31.5	418.441
32.0	388.066
32.5	359.337
33.0	332.703
33.5	308.014
34.0	285.046
34.5	264.023
35.0	244.945
35.5	227.438
36.0	211.577
36.5	197.362
37.0	184.719
37.5	173.421
38.0	163.172
38.5	154.044
39.0	146.039
39.5	139.007
40.0	132.722
40.5	127.261
41.0	122.398
41.5	118.058
42.0	114.168
42.5	110.726
43.0	107.584
43.5	104.816
44.0	102.197
44.5	99.803
45.0	97.559
45.5	95.389
46.0	93.369
46.5	91.349
47.0	89.479
47.5	87.609
48.0	85.738
48.5	83.943
49.0	82.147
49.5	80.351
50.0	78.631
50.5	76.985
51.0	75.264
51.5	73.618
52.0	72.047
52.5	70.401
53.0	68.830
53.5	67.259
54.0	65.688
54.5	64.117

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55.0	62.620
55.5	61.124
56.0	59.628
56.5	58.131
57.0	56.635
57.5	55.214
58.0	53.717
58.5	52.296
59.0	50.874
59.5	49.528
60.0	48.106
60.5	46.685
61.0	45.263
61.5	43.916
62.0	42.495
62.5	41.148
63.0	39.802
63.5	38.455
64.0	37.108
64.5	35.762
65.0	34.490
65.5	33.218
66.0	31.946
66.5	30.599
67.0	29.402
67.5	28.205
68.0	26.933
68.5	25.736
69.0	24.539
69.5	23.342
70.0	22.220
70.5	21.023
71.0	19.901
71.5	18.704
72.0	17.582
72.5	16.459
73.0	15.337
73.5	14.215
74.0	13.167
74.5	12.045
75.0	10.998
75.5	10.025
76.0	9.053
76.5	8.304
77.0	7.631
77.5	7.033
78.0	6.584
78.5	6.210
79.0	5.910
79.5	5.611
80.0	5.237
80.5	4.938
81.0	4.639
81.5	4.339
82.0	3.965
82.5	3.666

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CANDELA TABULATION - (Cont.)

83.0	3.441
83.5	3.142
84.0	2.843
84.5	2.544
85.0	2.244
85.5	2.020
86.0	1.721
86.5	1.496
87.0	1.197
87.5	0.973
88.0	0.748
88.5	0.524
89.0	0.299
89.5	0.224
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

IES INDOOR REPORT  
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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
131.5	0.000
132.0	0.000
132.5	0.000
133.0	0.000
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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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



**IES INDOOR REPORT****PHOTOMETRIC FILENAME : V2DR-L18-950-DIM-UNV-RW-OF-BL\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	490.91	N.A.	40.30
0-30	869.04	N.A.	71.40
0-40	1035.42	N.A.	85.00
0-60	1168.41	N.A.	95.90
0-80	1215.29	N.A.	99.80
0-90	1217.87	N.A.	100.00
10-90	1082.87	N.A.	88.90
20-40	544.51	N.A.	44.70
20-50	621.37	N.A.	51.00
40-70	167.27	N.A.	13.70
60-80	46.88	N.A.	3.80
70-80	12.60	N.A.	1.00
80-90	2.59	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	1217.87	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	135.00
10-20	355.91
20-30	378.13
30-40	166.38
40-50	76.87
50-60	56.12
60-70	34.28
70-80	12.60
80-90	2.59
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

X=2H	Y=2H	19.6	20.7	20.0	21.0	21.3	19.6	20.7	20.0	21.0	21.3
	3H	20.6	21.6	21.0	21.9	22.3	20.6	21.6	21.0	21.9	22.3
	4H	20.8	21.7	21.2	22.1	22.5	20.8	21.7	21.2	22.1	22.5
	6H	20.8	21.7	21.3	22.1	22.5	20.8	21.7	21.3	22.1	22.5
	8H	20.8	21.6	21.3	22.0	22.4	20.8	21.6	21.3	22.0	22.4
	12H	20.8	21.6	21.3	22.0	22.4	20.8	21.6	21.3	22.0	22.4

### UGR Viewed Endwise

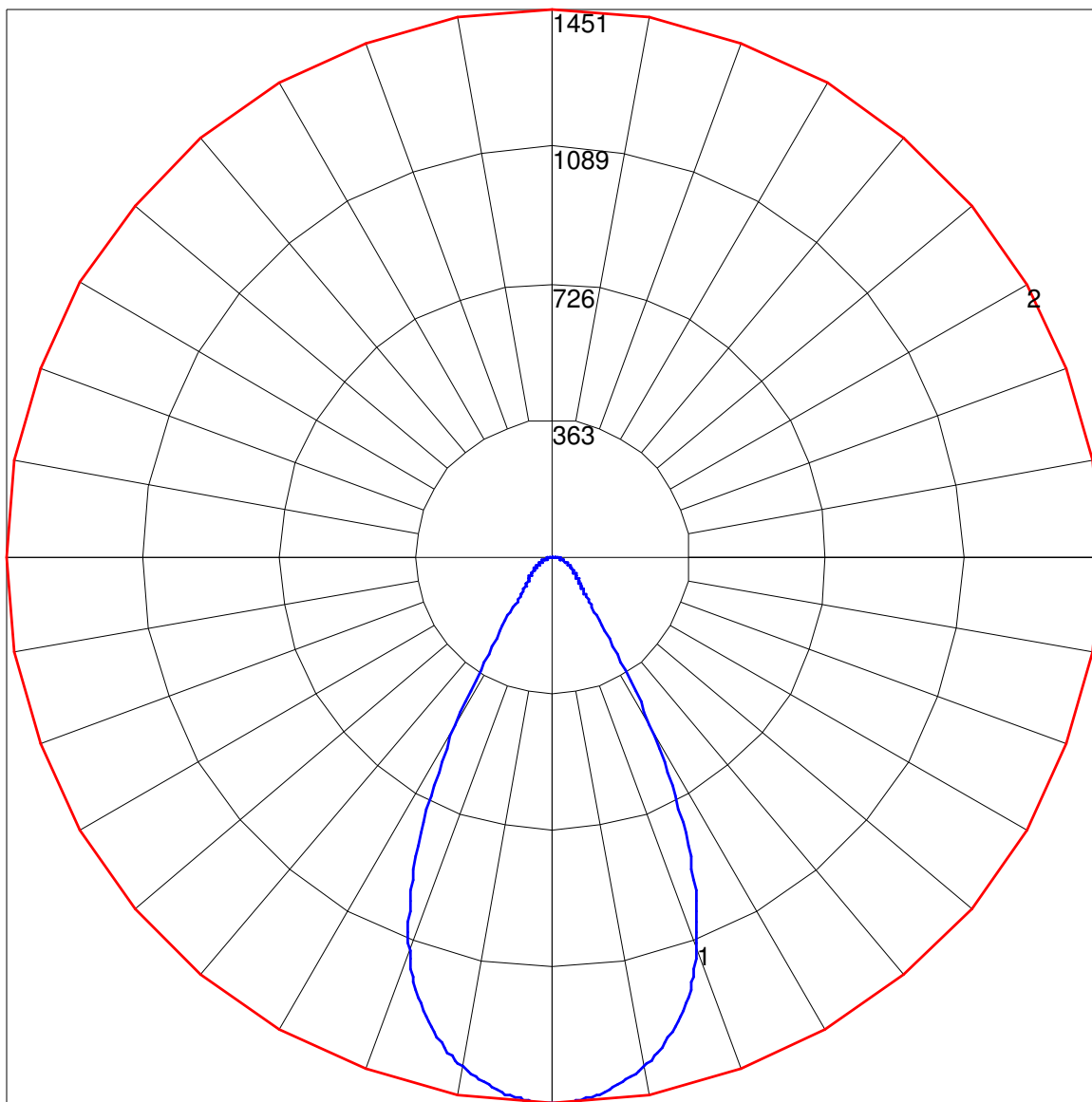
4H	2H	19.9	20.8	20.3	21.2	21.6	19.9	20.8	20.3	21.2	21.6
	3H	21.1	21.8	21.5	22.3	22.7	21.1	21.8	21.5	22.3	22.7
	4H	21.3	22.0	21.8	22.4	22.9	21.3	22.0	21.8	22.4	22.9
	6H	21.4	22.0	21.9	22.4	22.9	21.4	22.0	21.9	22.4	22.9
	8H	21.4	21.9	21.9	22.4	22.9	21.4	21.9	21.9	22.4	22.9
	12H	21.4	21.9	21.9	22.4	22.8	21.4	21.9	21.9	22.4	22.8

8H	4H	21.3	21.9	21.8	22.3	22.8	21.3	21.9	21.8	22.3	22.8
	6H	21.5	21.9	22.0	22.4	22.9	21.5	21.9	22.0	22.4	22.9
	8H	21.5	21.9	22.0	22.4	22.9	21.5	21.9	22.0	22.4	22.9
	12H	21.5	21.8	22.0	22.3	22.9	21.5	21.8	22.0	22.3	22.9

12H	4H	21.3	21.8	21.8	22.2	22.7	21.3	21.8	21.8	22.2	22.7
	6H	21.4	21.8	22.0	22.3	22.8	21.4	21.8	22.0	22.3	22.8
	8H	21.5	21.8	22.0	22.3	22.9	21.5	21.8	22.0	22.3	22.9

Maximum UGR = 22.9

POLAR GRAPH



Maximum Candela = 1451.414 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.)