

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L18-950-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-L18-950-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	1589
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	66
Total Luminaire Watts	23.9
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	65517	65517	65517
55	57221	57221	57221
65	48881	48881	48881
75	39436	39436	39436
85	22089	22089	22089

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CANDELA TABULATION

	<u>0</u>
0.0	1874.215
0.5	1873.250
1.0	1873.250
1.5	1872.284
2.0	1871.319
2.5	1868.422
3.0	1865.525
3.5	1862.628
4.0	1858.766
4.5	1853.938
5.0	1849.110
5.5	1844.282
6.0	1839.454
6.5	1833.661
7.0	1827.867
7.5	1822.073
8.0	1815.314
8.5	1808.555
9.0	1800.830
9.5	1793.106
10.0	1784.415
10.5	1774.759
11.0	1765.103
11.5	1754.482
12.0	1743.860
12.5	1731.308
13.0	1718.755
13.5	1705.237
14.0	1690.753
14.5	1675.303
15.0	1658.888
15.5	1640.542
16.0	1622.196
16.5	1601.918
17.0	1579.710
17.5	1557.501
18.0	1532.396
18.5	1506.325
19.0	1477.357
19.5	1446.458
20.0	1414.593
20.5	1379.832
21.0	1344.105
21.5	1305.481
22.0	1264.926
22.5	1223.406
23.0	1179.954
23.5	1135.537
24.0	1090.154
24.5	1043.806
25.0	996.492
25.5	949.660
26.0	902.250
26.5	855.322

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**CANDELA TABULATION - (Cont.)**

27.0	809.070
27.5	763.784
28.0	719.463
28.5	676.205
29.0	634.298
29.5	593.453
30.0	555.119
30.5	518.910
31.0	484.728
31.5	452.863
32.0	423.026
32.5	395.314
33.0	369.919
33.5	346.648
34.0	325.501
34.5	306.189
35.0	288.616
35.5	272.683
36.0	258.296
36.5	245.454
37.0	233.867
37.5	223.535
38.0	214.265
38.5	205.864
39.0	198.333
39.5	191.574
40.0	185.394
40.5	179.890
41.0	174.869
41.5	170.234
42.0	165.985
42.5	162.026
43.0	158.454
43.5	155.171
44.0	152.081
44.5	149.184
45.0	146.384
45.5	143.777
46.0	141.266
46.5	138.852
47.0	136.535
47.5	134.217
48.0	131.997
48.5	129.776
49.0	127.555
49.5	125.430
50.0	123.403
50.5	121.375
51.0	119.251
51.5	117.320
52.0	115.292
52.5	113.361
53.0	111.429
53.5	109.498
54.0	107.567
54.5	105.636

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**CANDELA TABULATION - (Cont.)**

55.0	103.705
55.5	101.773
56.0	99.939
56.5	97.911
57.0	96.076
57.5	94.145
58.0	92.214
58.5	90.283
59.0	88.352
59.5	86.421
60.0	84.489
60.5	82.558
61.0	80.627
61.5	78.599
62.0	76.765
62.5	74.833
63.0	72.806
63.5	70.875
64.0	68.943
64.5	67.109
65.0	65.274
65.5	63.439
66.0	61.605
66.5	59.867
67.0	58.032
67.5	56.391
68.0	54.653
68.5	53.011
69.0	51.370
69.5	49.631
70.0	47.990
70.5	46.348
71.0	44.804
71.5	43.162
72.0	41.520
72.5	39.976
73.0	38.334
73.5	36.789
74.0	35.341
74.5	33.796
75.0	32.251
75.5	30.802
76.0	29.354
76.5	27.906
77.0	26.554
77.5	25.105
78.0	23.754
78.5	22.402
79.0	21.050
79.5	19.698
80.0	18.443
80.5	17.091
81.0	15.836
81.5	14.580
82.0	13.325
82.5	12.070

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CANDELA TABULATION - (Cont.)

83.0	10.911
83.5	9.656
84.0	8.497
84.5	7.242
85.0	6.083
85.5	4.828
86.0	3.573
86.5	2.704
87.0	1.931
87.5	1.159
88.0	0.772
88.5	0.579
89.0	0.386
89.5	0.290
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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125.5	0.000
126.0	0.000
126.5	0.000
127.0	0.000
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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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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	633.63	N.A.	39.90
0-30	1080.24	N.A.	68.00
0-40	1274.28	N.A.	80.20
0-60	1481.69	N.A.	93.30
0-80	1580.96	N.A.	99.50
0-90	1588.61	N.A.	100.00
10-90	1414.11	N.A.	89.00
20-40	640.65	N.A.	40.30
20-50	755.30	N.A.	47.50
40-70	272.31	N.A.	17.10
60-80	99.27	N.A.	6.20
70-80	34.37	N.A.	2.20
80-90	7.65	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	1588.61	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	174.50
10-20	459.13
20-30	446.61
30-40	194.04
40-50	114.66
50-60	92.75
60-70	64.90
70-80	34.37
80-90	7.65
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	97	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	62	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

X=2H	Y=2H	22.3	23.4	22.6	23.8	24.1	22.3	23.4	22.6	23.8	24.1
	3H	23.8	24.8	24.2	25.1	25.5	23.8	24.8	24.2	25.1	25.5
	4H	24.3	25.3	24.7	25.6	26.0	24.3	25.3	24.7	25.6	26.0
	6H	24.6	25.5	25.0	25.9	26.3	24.6	25.5	25.0	25.9	26.3
	8H	24.7	25.6	25.1	26.0	26.4	24.7	25.6	25.1	26.0	26.4
	12H	24.7	25.6	25.2	25.9	26.4	24.7	25.6	25.2	25.9	26.4

UGR Viewed Endwise

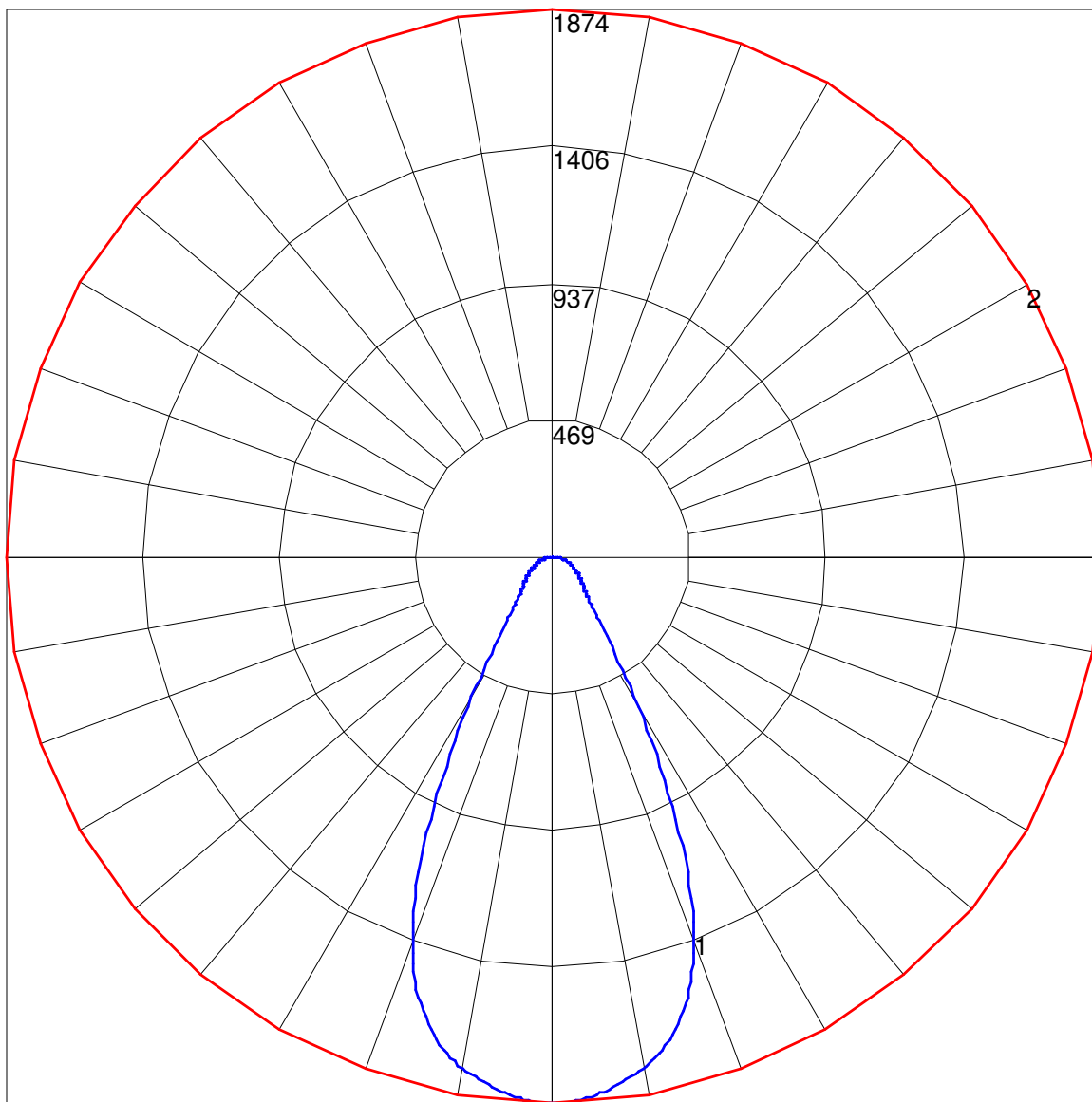
4H	2H	22.8	23.7	23.2	24.1	24.5	22.8	23.7	23.2	24.1	24.5
	3H	24.4	25.2	24.9	25.6	26.1	24.4	25.2	24.9	25.6	26.1
	4H	25.1	25.8	25.5	26.2	26.7	25.1	25.8	25.5	26.2	26.7
	6H	25.5	26.1	26.0	26.6	27.1	25.5	26.1	26.0	26.6	27.1
	8H	25.6	26.2	26.1	26.7	27.1	25.6	26.2	26.1	26.7	27.1
	12H	25.7	26.2	26.2	26.7	27.2	25.7	26.2	26.2	26.7	27.2

8H	4H	25.3	25.8	25.7	26.3	26.8	25.3	25.8	25.7	26.3	26.8
	6H	25.8	26.3	26.3	26.8	27.3	25.8	26.3	26.3	26.8	27.3
	8H	26.0	26.4	26.5	26.9	27.4	26.0	26.4	26.5	26.9	27.4
	12H	26.1	26.5	26.6	27.0	27.5	26.1	26.5	26.6	27.0	27.5

12H	4H	25.2	25.8	25.7	26.2	26.7	25.2	25.8	25.7	26.2	26.7
	6H	25.8	26.3	26.4	26.7	27.3	25.8	26.3	26.4	26.7	27.3
	8H	26.1	26.4	26.6	26.9	27.5	26.1	26.4	26.6	26.9	27.5

Maximum UGR = 27.5

POLAR GRAPH



Maximum Candela = 1874.215 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.)