

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L18-930-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-L18-930-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	1426
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	60
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	58817	58817	58817
55	51368	51368	51368
65	43881	43881	43881
75	35402	35402	35402
85	19830	19830	19830

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CANDELA TABULATION

	<u>0</u>
0.0	1682.534
0.5	1681.667
1.0	1681.667
1.5	1680.801
2.0	1679.934
2.5	1677.333
3.0	1674.733
3.5	1672.132
4.0	1668.665
4.5	1664.331
5.0	1659.996
5.5	1655.662
6.0	1651.328
6.5	1646.127
7.0	1640.926
7.5	1635.725
8.0	1629.657
8.5	1623.589
9.0	1616.654
9.5	1609.720
10.0	1601.918
10.5	1593.250
11.0	1584.581
11.5	1575.046
12.0	1565.511
12.5	1554.242
13.0	1542.973
13.5	1530.837
14.0	1517.835
14.5	1503.965
15.0	1489.229
15.5	1472.759
16.0	1456.289
16.5	1438.086
17.0	1418.148
17.5	1398.211
18.0	1375.673
18.5	1352.269
19.0	1326.263
19.5	1298.525
20.0	1269.919
20.5	1238.713
21.0	1206.640
21.5	1171.966
22.0	1135.559
22.5	1098.285
23.0	1059.277
23.5	1019.403
24.0	978.661
24.5	937.053
25.0	894.578
25.5	852.536
26.0	809.974
26.5	767.846

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**CANDELA TABULATION - (Cont.)**

27.0	726.324
27.5	685.670
28.0	645.882
28.5	607.047
29.0	569.426
29.5	532.759
30.0	498.346
30.5	465.839
31.0	435.153
31.5	406.547
32.0	379.762
32.5	354.884
33.0	332.086
33.5	311.195
34.0	292.211
34.5	274.875
35.0	259.098
35.5	244.795
36.0	231.879
36.5	220.350
37.0	209.948
37.5	200.673
38.0	192.352
38.5	184.810
39.0	178.049
39.5	171.981
40.0	166.433
40.5	161.492
41.0	156.985
41.5	152.824
42.0	149.010
42.5	145.456
43.0	142.248
43.5	139.301
44.0	136.527
44.5	133.927
45.0	131.413
45.5	129.072
46.0	126.819
46.5	124.651
47.0	122.571
47.5	120.491
48.0	118.497
48.5	116.503
49.0	114.509
49.5	112.602
50.0	110.782
50.5	108.962
51.0	107.055
51.5	105.321
52.0	103.501
52.5	101.767
53.0	100.033
53.5	98.300
54.0	96.566
54.5	94.832

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**CANDELA TABULATION - (Cont.)**

55.0	93.098
55.5	91.365
56.0	89.718
56.5	87.897
57.0	86.250
57.5	84.517
58.0	82.783
58.5	81.049
59.0	79.316
59.5	77.582
60.0	75.848
60.5	74.115
61.0	72.381
61.5	70.561
62.0	68.914
62.5	67.180
63.0	65.360
63.5	63.626
64.0	61.892
64.5	60.245
65.0	58.598
65.5	56.951
66.0	55.304
66.5	53.744
67.0	52.097
67.5	50.623
68.0	49.063
68.5	47.589
69.0	46.116
69.5	44.556
70.0	43.082
70.5	41.608
71.0	40.221
71.5	38.748
72.0	37.274
72.5	35.887
73.0	34.414
73.5	33.027
74.0	31.726
74.5	30.339
75.0	28.952
75.5	27.652
76.0	26.352
76.5	25.052
77.0	23.838
77.5	22.538
78.0	21.324
78.5	20.111
79.0	18.897
79.5	17.684
80.0	16.557
80.5	15.343
81.0	14.216
81.5	13.089
82.0	11.962
82.5	10.835

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CANDELA TABULATION - (Cont.)

83.0	9.795
83.5	8.668
84.0	7.628
84.5	6.501
85.0	5.461
85.5	4.334
86.0	3.207
86.5	2.427
87.0	1.734
87.5	1.040
88.0	0.693
88.5	0.520
89.0	0.347
89.5	0.260
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
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128.5	0.000
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130.0	0.000
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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	568.83	N.A.	39.90
0-30	969.76	N.A.	68.00
0-40	1143.96	N.A.	80.20
0-60	1330.15	N.A.	93.30
0-80	1419.27	N.A.	99.50
0-90	1426.14	N.A.	100.00
10-90	1269.49	N.A.	89.00
20-40	575.13	N.A.	40.30
20-50	678.06	N.A.	47.50
40-70	244.46	N.A.	17.10
60-80	89.12	N.A.	6.20
70-80	30.86	N.A.	2.20
80-90	6.87	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	1426.14	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	156.65
10-20	412.18
20-30	400.94
30-40	174.19
40-50	102.93
50-60	83.26
60-70	58.26
70-80	30.86
80-90	6.87
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

X=2H	Y=2H	22.0	23.1	22.3	23.5	23.8	22.0	23.1	22.3	23.5	23.8
	3H	23.5	24.5	23.9	24.8	25.2	23.5	24.5	23.9	24.8	25.2
	4H	24.0	25.0	24.4	25.3	25.7	24.0	25.0	24.4	25.3	25.7
	6H	24.3	25.2	24.7	25.6	26.0	24.3	25.2	24.7	25.6	26.0
	8H	24.4	25.3	24.8	25.7	26.1	24.4	25.3	24.8	25.7	26.1
	12H	24.4	25.3	24.9	25.6	26.1	24.4	25.3	24.9	25.6	26.1

UGR Viewed Endwise

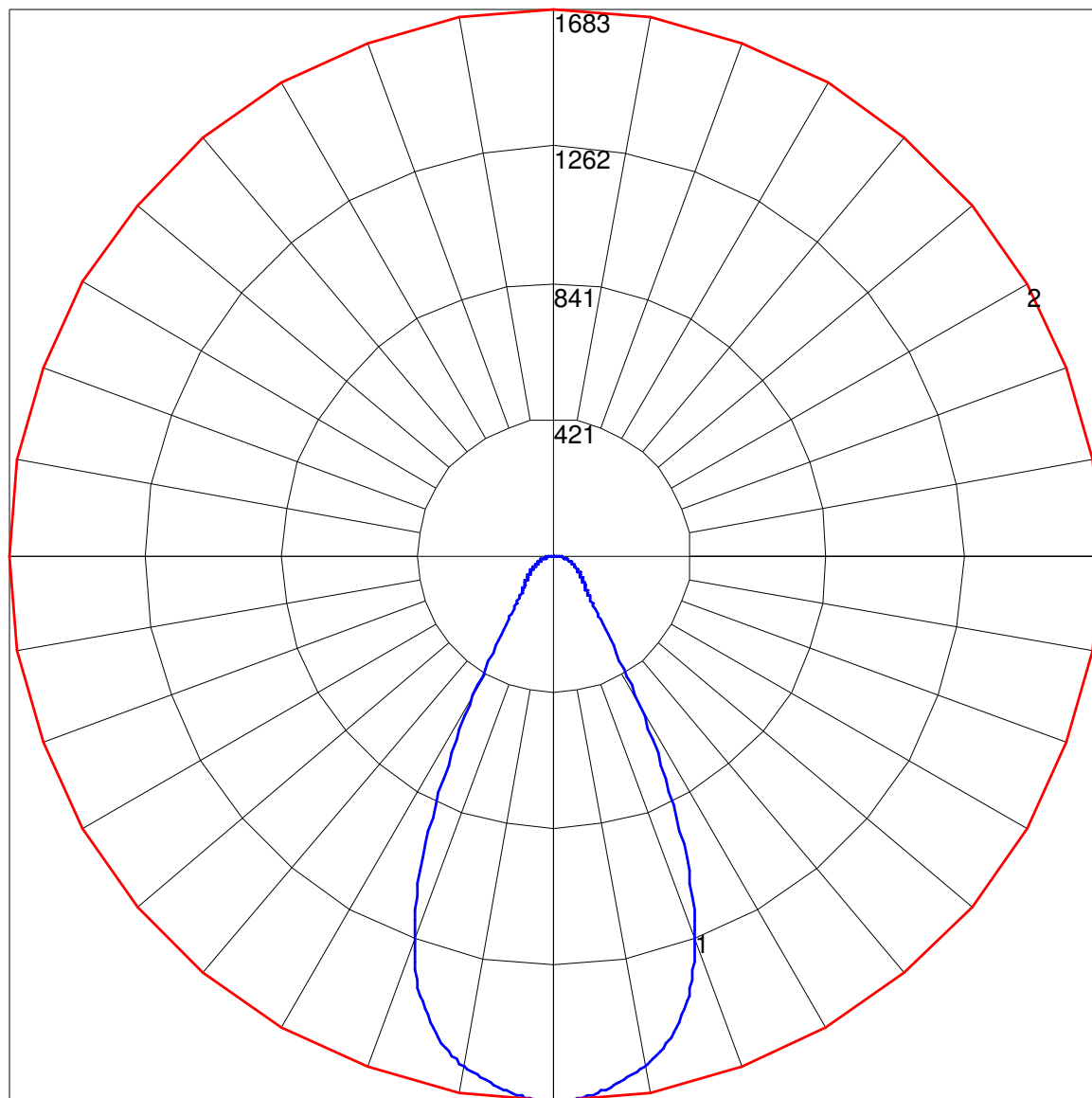
4H	2H	22.5	23.4	22.9	23.8	24.2	22.5	23.4	22.9	23.8	24.2
	3H	24.1	24.9	24.5	25.3	25.7	24.1	24.9	24.5	25.3	25.7
	4H	24.8	25.5	25.2	25.9	26.3	24.8	25.5	25.2	25.9	26.3
	6H	25.2	25.8	25.7	26.3	26.8	25.2	25.8	25.7	26.3	26.8
	8H	25.3	25.9	25.8	26.4	26.8	25.3	25.9	25.8	26.4	26.8
	12H	25.4	25.9	25.9	26.4	26.9	25.4	25.9	25.9	26.4	26.9

8H	4H	25.0	25.5	25.4	26.0	26.5	25.0	25.5	25.4	26.0	26.5
	6H	25.5	26.0	26.0	26.5	27.0	25.5	26.0	26.0	26.5	27.0
	8H	25.7	26.1	26.2	26.6	27.1	25.7	26.1	26.2	26.6	27.1
	12H	25.8	26.2	26.3	26.7	27.2	25.8	26.2	26.3	26.7	27.2

12H	4H	24.9	25.5	25.4	25.9	26.4	24.9	25.5	25.4	25.9	26.4
	6H	25.5	26.0	26.1	26.4	27.0	25.5	26.0	26.1	26.4	27.0
	8H	25.8	26.1	26.3	26.6	27.2	25.8	26.1	26.3	26.6	27.2

Maximum UGR = 27.2

POLAR GRAPH



Maximum Candela = 1682.534 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.)