

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L14-840-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-L14-840-DIM-UNV-LW-OF\_  
[LUMINAIRE] Aluminum housing, optics, and trim enclosure  
[LAMP] One white LED  
[OTHER] This test was performed using the calibrated photodetector met  
[MORE] hod 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	1423
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	82
Total Luminaire Watts	17.3
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	58698	58698	58698
55	51266	51266	51266
65	43794	43794	43794
75	35331	35331	35331
85	19790	19790	19790

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : V2DR-L14-840-DIM-UNV-LW-OF\_.IES

CANDELA TABULATION

	<u>0</u>
0.0	1679.160
0.5	1678.295
1.0	1678.295
1.5	1677.430
2.0	1676.564
2.5	1673.969
3.0	1671.374
3.5	1668.779
4.0	1665.318
4.5	1660.993
5.0	1656.667
5.5	1652.342
6.0	1648.016
6.5	1642.826
7.0	1637.635
7.5	1632.444
8.0	1626.389
8.5	1620.333
9.0	1613.412
9.5	1606.491
10.0	1598.705
10.5	1590.054
11.0	1581.403
11.5	1571.887
12.0	1562.371
12.5	1551.125
13.0	1539.879
13.5	1527.767
14.0	1514.791
14.5	1500.949
15.0	1486.242
15.5	1469.805
16.0	1453.369
16.5	1435.201
17.0	1415.304
17.5	1395.407
18.0	1372.914
18.5	1349.557
19.0	1323.603
19.5	1295.920
20.0	1267.372
20.5	1236.228
21.0	1204.220
21.5	1169.616
22.0	1133.281
22.5	1096.082
23.0	1057.153
23.5	1017.358
24.0	976.698
24.5	935.173
25.0	892.784
25.5	850.826
26.0	808.350
26.5	766.306

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : V2DR-L14-840-DIM-UNV-LW-OF\_.IES**

**CANDELA TABULATION - (Cont.)**

27.0	724.868
27.5	684.294
28.0	644.586
28.5	605.830
29.0	568.284
29.5	531.691
30.0	497.346
30.5	464.905
31.0	434.280
31.5	405.732
32.0	379.000
32.5	354.172
33.0	331.420
33.5	310.571
34.0	291.625
34.5	274.323
35.0	258.578
35.5	244.304
36.0	231.414
36.5	219.909
37.0	209.527
37.5	200.271
38.0	191.966
38.5	184.439
39.0	177.692
39.5	171.636
40.0	166.099
40.5	161.168
41.0	156.670
41.5	152.517
42.0	148.711
42.5	145.164
43.0	141.963
43.5	139.022
44.0	136.253
44.5	133.658
45.0	131.149
45.5	128.813
46.0	126.564
46.5	124.401
47.0	122.325
47.5	120.249
48.0	118.259
48.5	116.269
49.0	114.280
49.5	112.377
50.0	110.560
50.5	108.743
51.0	106.840
51.5	105.110
52.0	103.293
52.5	101.563
53.0	99.833
53.5	98.102
54.0	96.372
54.5	94.642

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : V2DR-L14-840-DIM-UNV-LW-OF\_.IES**

**CANDELA TABULATION - (Cont.)**

55.0	92.912
55.5	91.182
56.0	89.538
56.5	87.721
57.0	86.077
57.5	84.347
58.0	82.617
58.5	80.887
59.0	79.157
59.5	77.426
60.0	75.696
60.5	73.966
61.0	72.236
61.5	70.419
62.0	68.775
62.5	67.045
63.0	65.229
63.5	63.498
64.0	61.768
64.5	60.124
65.0	58.481
65.5	56.837
66.0	55.193
66.5	53.636
67.0	51.993
67.5	50.522
68.0	48.965
68.5	47.494
69.0	46.023
69.5	44.466
70.0	42.995
70.5	41.525
71.0	40.141
71.5	38.670
72.0	37.199
72.5	35.815
73.0	34.344
73.5	32.960
74.0	31.663
74.5	30.279
75.0	28.894
75.5	27.597
76.0	26.299
76.5	25.001
77.0	23.790
77.5	22.493
78.0	21.281
78.5	20.070
79.0	18.859
79.5	17.648
80.0	16.523
80.5	15.312
81.0	14.188
81.5	13.063
82.0	11.938
82.5	10.814

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : V2DR-L14-840-DIM-UNV-LW-OF\_.IES

CANDELA TABULATION - (Cont.)

83.0	9.776
83.5	8.651
84.0	7.613
84.5	6.488
85.0	5.450
85.5	4.326
86.0	3.201
86.5	2.422
87.0	1.730
87.5	1.038
88.0	0.692
88.5	0.519
89.0	0.346
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

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : V2DR-L14-840-DIM-UNV-LW-OF\_.IES

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

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : V2DR-L14-840-DIM-UNV-LW-OF\_.IES

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

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : V2DR-L14-840-DIM-UNV-LW-OF\_.IES**

**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-L14-840-DIM-UNV-LW-OF\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	567.69	N.A.	39.90
0-30	967.82	N.A.	68.00
0-40	1141.66	N.A.	80.20
0-60	1327.48	N.A.	93.30
0-80	1416.42	N.A.	99.50
0-90	1423.28	N.A.	100.00
10-90	1266.94	N.A.	89.00
20-40	573.97	N.A.	40.30
20-50	676.70	N.A.	47.50
40-70	243.97	N.A.	17.10
60-80	88.94	N.A.	6.20
70-80	30.80	N.A.	2.20
80-90	6.85	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	1423.28	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	156.34
10-20	411.35
20-30	400.13
30-40	173.84
40-50	102.72
50-60	83.10
60-70	58.15
70-80	30.80
80-90	6.85
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

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : V2DR-L14-840-DIM-UNV-LW-OF\_.IES**

**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

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : V2DR-L14-840-DIM-UNV-LW-OF\_.IES**

**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	UGR Viewed Endwise			
	3H	23.5	24.5	23.9	24.8	25.2	22.0	23.1	22.3	23.5
	4H	24.0	25.0	24.4	25.3	25.7	23.5	24.5	23.9	24.8
	6H	24.3	25.2	24.7	25.6	26.0	24.0	25.0	24.4	25.3
	8H	24.4	25.3	24.8	25.7	26.1	24.3	25.2	24.7	25.6
	12H	24.4	25.3	24.9	25.6	26.1	24.4	25.3	24.8	25.7

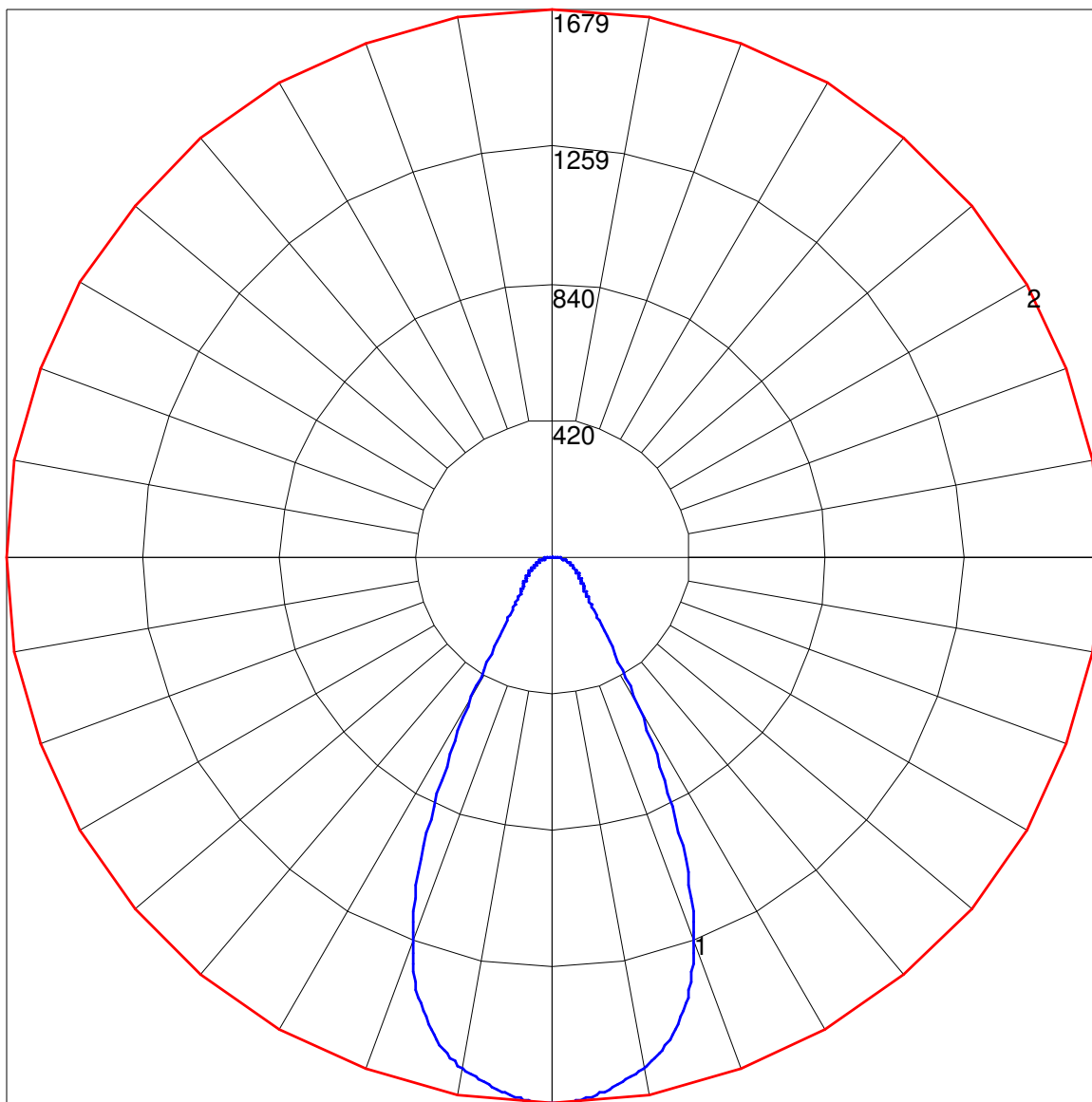
4H	2H	22.5	23.4	22.9	23.8	24.2	24.4	25.3	24.9	25.6
	3H	24.1	24.9	24.5	25.3	25.7	24.4	25.3	24.9	25.6
	4H	24.8	25.5	25.2	25.9	26.3	24.4	25.3	24.9	25.6
	6H	25.2	25.8	25.7	26.3	26.8	24.4	25.3	24.9	25.6
	8H	25.3	25.9	25.8	26.4	26.8	24.4	25.3	24.9	25.6
	12H	25.4	25.9	25.9	26.4	26.9	24.4	25.3	24.9	25.6

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

12H	4H	24.9	25.5	25.4	25.9	26.4	25.8	26.2	26.3	26.7
	6H	25.5	26.0	26.1	26.4	27.0	25.8	26.2	26.3	26.7
	8H	25.8	26.1	26.3	26.6	27.2	24.9	25.5	25.4	26.0

Maximum UGR = 27.2

POLAR GRAPH



Maximum Candela = 1679.16 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.)