

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L14-850-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-L14-850-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	1437
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	83
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	59280	59280	59280
55	51773	51773	51773
65	44227	44227	44227
75	35681	35681	35681
85	19986	19986	19986

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CANDELA TABULATION

	<u>0</u>
0.0	1695.785
0.5	1694.911
1.0	1694.911
1.5	1694.038
2.0	1693.164
2.5	1690.543
3.0	1687.922
3.5	1685.301
4.0	1681.806
4.5	1677.438
5.0	1673.070
5.5	1668.701
6.0	1664.333
6.5	1659.091
7.0	1653.849
7.5	1648.607
8.0	1642.491
8.5	1636.376
9.0	1629.386
9.5	1622.397
10.0	1614.534
10.5	1605.797
11.0	1597.061
11.5	1587.450
12.0	1577.840
12.5	1566.482
13.0	1555.125
13.5	1542.893
14.0	1529.788
14.5	1515.810
15.0	1500.957
15.5	1484.358
16.0	1467.758
16.5	1449.411
17.0	1429.317
17.5	1409.223
18.0	1386.507
18.5	1362.918
19.0	1336.708
19.5	1308.751
20.0	1279.920
20.5	1248.468
21.0	1216.142
21.5	1181.196
22.0	1144.502
22.5	1106.934
23.0	1067.619
23.5	1027.431
24.0	986.368
24.5	944.432
25.0	901.623
25.5	859.250
26.0	816.353
26.5	773.893

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**CANDELA TABULATION - (Cont.)**

27.0	732.044
27.5	691.069
28.0	650.968
28.5	611.828
29.0	573.911
29.5	536.955
30.0	502.270
30.5	469.508
31.0	438.580
31.5	409.749
32.0	382.753
32.5	357.679
33.0	334.701
33.5	313.646
34.0	294.513
34.5	277.039
35.0	261.139
35.5	246.723
36.0	233.706
36.5	222.086
37.0	211.602
37.5	202.254
38.0	193.866
38.5	186.265
39.0	179.451
39.5	173.335
40.0	167.744
40.5	162.764
41.0	158.221
41.5	154.027
42.0	150.183
42.5	146.601
43.0	143.369
43.5	140.398
44.0	137.602
44.5	134.981
45.0	132.448
45.5	130.089
46.0	127.817
46.5	125.633
47.0	123.536
47.5	121.440
48.0	119.430
48.5	117.421
49.0	115.411
49.5	113.489
50.0	111.654
50.5	109.820
51.0	107.898
51.5	106.150
52.0	104.316
52.5	102.568
53.0	100.821
53.5	99.074
54.0	97.326
54.5	95.579

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**CANDELA TABULATION - (Cont.)**

55.0	93.832
55.5	92.084
56.0	90.424
56.5	88.590
57.0	86.930
57.5	85.182
58.0	83.435
58.5	81.688
59.0	79.940
59.5	78.193
60.0	76.446
60.5	74.698
61.0	72.951
61.5	71.116
62.0	69.456
62.5	67.709
63.0	65.874
63.5	64.127
64.0	62.380
64.5	60.720
65.0	59.060
65.5	57.400
66.0	55.740
66.5	54.167
67.0	52.507
67.5	51.022
68.0	49.449
68.5	47.964
69.0	46.479
69.5	44.906
70.0	43.421
70.5	41.936
71.0	40.538
71.5	39.053
72.0	37.568
72.5	36.170
73.0	34.685
73.5	33.287
74.0	31.976
74.5	30.578
75.0	29.180
75.5	27.870
76.0	26.559
76.5	25.249
77.0	24.026
77.5	22.715
78.0	21.492
78.5	20.269
79.0	19.046
79.5	17.823
80.0	16.687
80.5	15.464
81.0	14.328
81.5	13.192
82.0	12.057
82.5	10.921

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CANDELA TABULATION - (Cont.)

83.0	9.872
83.5	8.737
84.0	7.688
84.5	6.552
85.0	5.504
85.5	4.368
86.0	3.233
86.5	2.446
87.0	1.747
87.5	1.048
88.0	0.699
88.5	0.524
89.0	0.349
89.5	0.262
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
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128.0	0.000
128.5	0.000
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131.0	0.000
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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	573.31	N.A.	39.90
0-30	977.40	N.A.	68.00
0-40	1152.96	N.A.	80.20
0-60	1340.62	N.A.	93.30
0-80	1430.45	N.A.	99.50
0-90	1437.37	N.A.	100.00
10-90	1279.48	N.A.	89.00
20-40	579.66	N.A.	40.30
20-50	683.40	N.A.	47.50
40-70	246.38	N.A.	17.10
60-80	89.82	N.A.	6.20
70-80	31.10	N.A.	2.20
80-90	6.92	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	1437.37	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	157.89
10-20	415.42
20-30	404.09
30-40	175.56
40-50	103.74
50-60	83.92
60-70	58.72
70-80	31.10
80-90	6.92
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	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	24.9	25.6

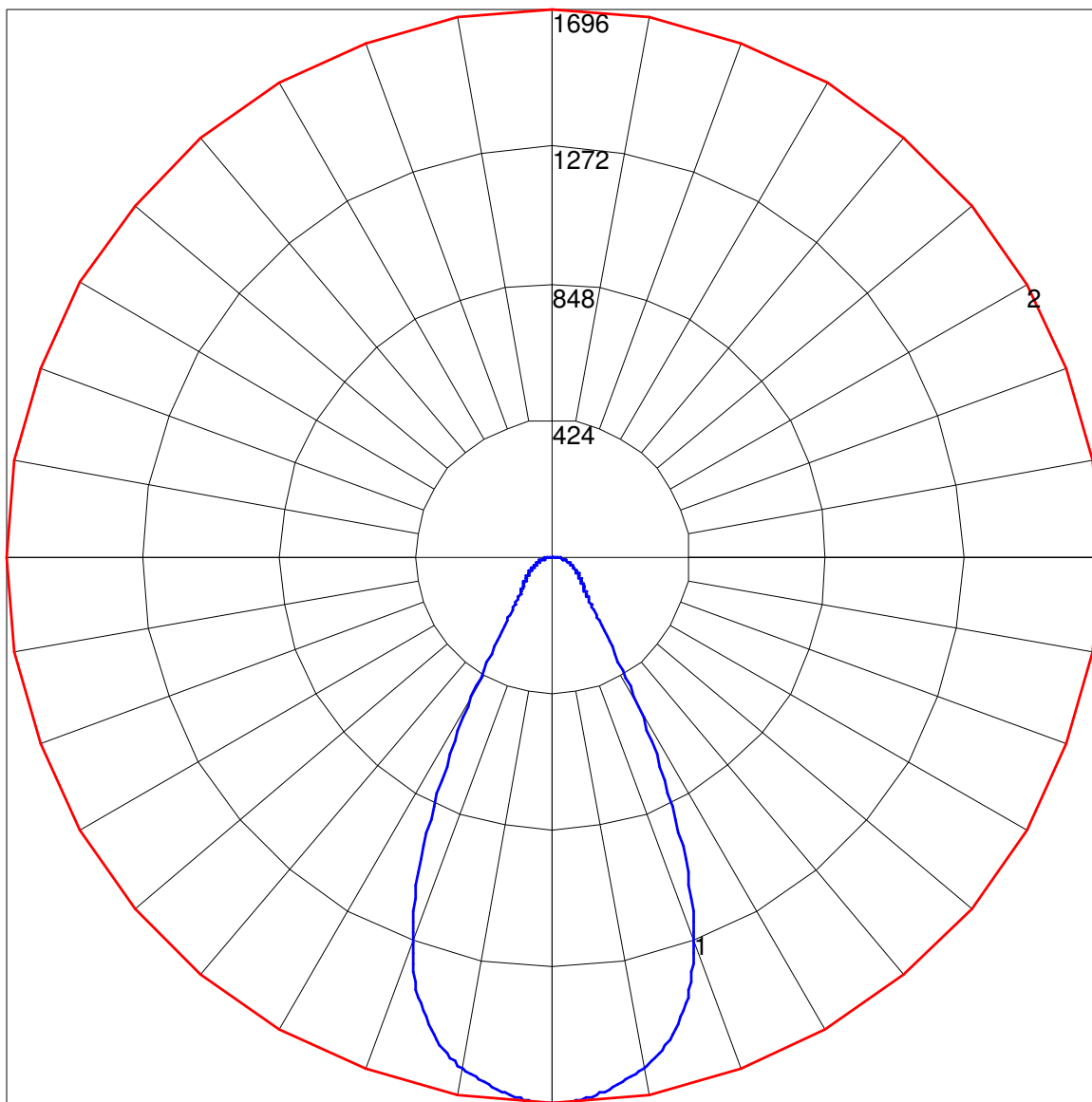
4H	2H	22.5	23.4	22.9	23.8	24.2	22.5	23.4	22.9	23.8
	3H	24.1	24.9	24.5	25.3	25.7	24.1	24.9	24.5	25.3
	4H	24.8	25.5	25.2	25.9	26.4	24.8	25.5	25.2	25.9
	6H	25.2	25.8	25.7	26.3	26.8	25.2	25.8	25.7	26.3
	8H	25.3	25.9	25.8	26.4	26.8	25.3	25.9	25.8	26.4
	12H	25.4	25.9	25.9	26.4	26.9	25.4	25.9	25.9	26.4

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	25.5	26.0	26.0	26.5
	8H	25.7	26.1	26.2	26.6	27.1	25.7	26.1	26.2	26.6
	12H	25.8	26.2	26.3	26.7	27.2	25.8	26.2	26.3	26.7

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

Maximum UGR = 27.2

POLAR GRAPH



Maximum Candela = 1695.785 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.)