

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L14-940-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-L14-940-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	1184
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	68
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	48819	48819	48819
55	42637	42637	42637
65	36422	36422	36422
75	29385	29385	29385
85	16460	16460	16460

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CANDELA TABULATION

	<u>0</u>
0.0	1396.529
0.5	1395.809
1.0	1395.809
1.5	1395.090
2.0	1394.370
2.5	1392.212
3.0	1390.053
3.5	1387.895
4.0	1385.017
4.5	1381.419
5.0	1377.822
5.5	1374.225
6.0	1370.627
6.5	1366.310
7.0	1361.993
7.5	1357.676
8.0	1352.640
8.5	1347.603
9.0	1341.848
9.5	1336.092
10.0	1329.616
10.5	1322.421
11.0	1315.226
11.5	1307.312
12.0	1299.398
12.5	1290.044
13.0	1280.691
13.5	1270.618
14.0	1259.826
14.5	1248.314
15.0	1236.083
15.5	1222.412
16.0	1208.742
16.5	1193.633
17.0	1177.084
17.5	1160.536
18.0	1141.829
18.5	1122.403
19.0	1100.819
19.5	1077.795
20.0	1054.052
20.5	1028.150
21.0	1001.529
21.5	972.750
22.0	942.531
22.5	911.593
23.0	879.216
23.5	846.119
24.0	812.303
24.5	777.768
25.0	742.513
25.5	707.618
26.0	672.291
26.5	637.324

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**CANDELA TABULATION - (Cont.)**

27.0	602.860
27.5	569.116
28.0	536.091
28.5	503.858
29.0	472.633
29.5	442.198
30.0	413.634
30.5	386.654
31.0	361.184
31.5	337.440
32.0	315.208
32.5	294.559
33.0	275.636
33.5	258.297
34.0	242.540
34.5	228.150
35.0	215.055
35.5	203.184
36.0	192.463
36.5	182.894
37.0	174.260
37.5	166.562
38.0	159.655
38.5	153.395
39.0	147.783
39.5	142.747
40.0	138.142
40.5	134.041
41.0	130.300
41.5	126.846
42.0	123.680
42.5	120.730
43.0	118.068
43.5	115.622
44.0	113.320
44.5	111.161
45.0	109.075
45.5	107.132
46.0	105.261
46.5	103.463
47.0	101.736
47.5	100.009
48.0	98.354
48.5	96.699
49.0	95.045
49.5	93.462
50.0	91.951
50.5	90.440
51.0	88.857
51.5	87.418
52.0	85.907
52.5	84.468
53.0	83.029
53.5	81.590
54.0	80.151
54.5	78.712

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55.0	77.273
55.5	75.834
56.0	74.467
56.5	72.956
57.0	71.589
57.5	70.150
58.0	68.711
58.5	67.272
59.0	65.833
59.5	64.394
60.0	62.955
60.5	61.516
61.0	60.077
61.5	58.566
62.0	57.199
62.5	55.760
63.0	54.249
63.5	52.811
64.0	51.372
64.5	50.005
65.0	48.637
65.5	47.270
66.0	45.903
66.5	44.608
67.0	43.241
67.5	42.018
68.0	40.723
68.5	39.500
69.0	38.277
69.5	36.982
70.0	35.759
70.5	34.535
71.0	33.384
71.5	32.161
72.0	30.938
72.5	29.787
73.0	28.564
73.5	27.413
74.0	26.333
74.5	25.182
75.0	24.031
75.5	22.952
76.0	21.872
76.5	20.793
77.0	19.786
77.5	18.707
78.0	17.699
78.5	16.692
79.0	15.685
79.5	14.678
80.0	13.742
80.5	12.735
81.0	11.800
81.5	10.864
82.0	9.929
82.5	8.994

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CANDELA TABULATION - (Cont.)

83.0	8.130
83.5	7.195
84.0	6.332
84.5	5.396
85.0	4.533
85.5	3.597
86.0	2.662
86.5	2.015
87.0	1.439
87.5	0.863
88.0	0.576
88.5	0.432
89.0	0.288
89.5	0.216
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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120.5	0.000
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130.0	0.000
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131.0	0.000
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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
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157.0	0.000
157.5	0.000
158.0	0.000
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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	472.14	N.A.	39.90
0-30	804.92	N.A.	68.00
0-40	949.50	N.A.	80.20
0-60	1104.04	N.A.	93.30
0-80	1178.02	N.A.	99.50
0-90	1183.71	N.A.	100.00
10-90	1053.69	N.A.	89.00
20-40	477.36	N.A.	40.30
20-50	562.80	N.A.	47.50
40-70	202.90	N.A.	17.10
60-80	73.97	N.A.	6.20
70-80	25.61	N.A.	2.20
80-90	5.70	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	1183.71	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	130.02
10-20	342.11
20-30	332.78
30-40	144.58
40-50	85.43
50-60	69.11
60-70	48.36
70-80	25.61
80-90	5.70
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	21.3	22.4	21.6	22.8	23.1	21.3	22.4	21.6	22.8	23.1
	3H	22.8	23.8	23.2	24.1	24.5	22.8	23.8	23.2	24.1	24.5
	4H	23.3	24.3	23.7	24.6	25.0	23.3	24.3	23.7	24.6	25.0
	6H	23.6	24.5	24.0	24.9	25.3	23.6	24.5	24.0	24.9	25.3
	8H	23.7	24.6	24.1	25.0	25.4	23.7	24.6	24.1	25.0	25.4
	12H	23.7	24.6	24.2	24.9	25.4	23.7	24.6	24.2	24.9	25.4

UGR Viewed Endwise

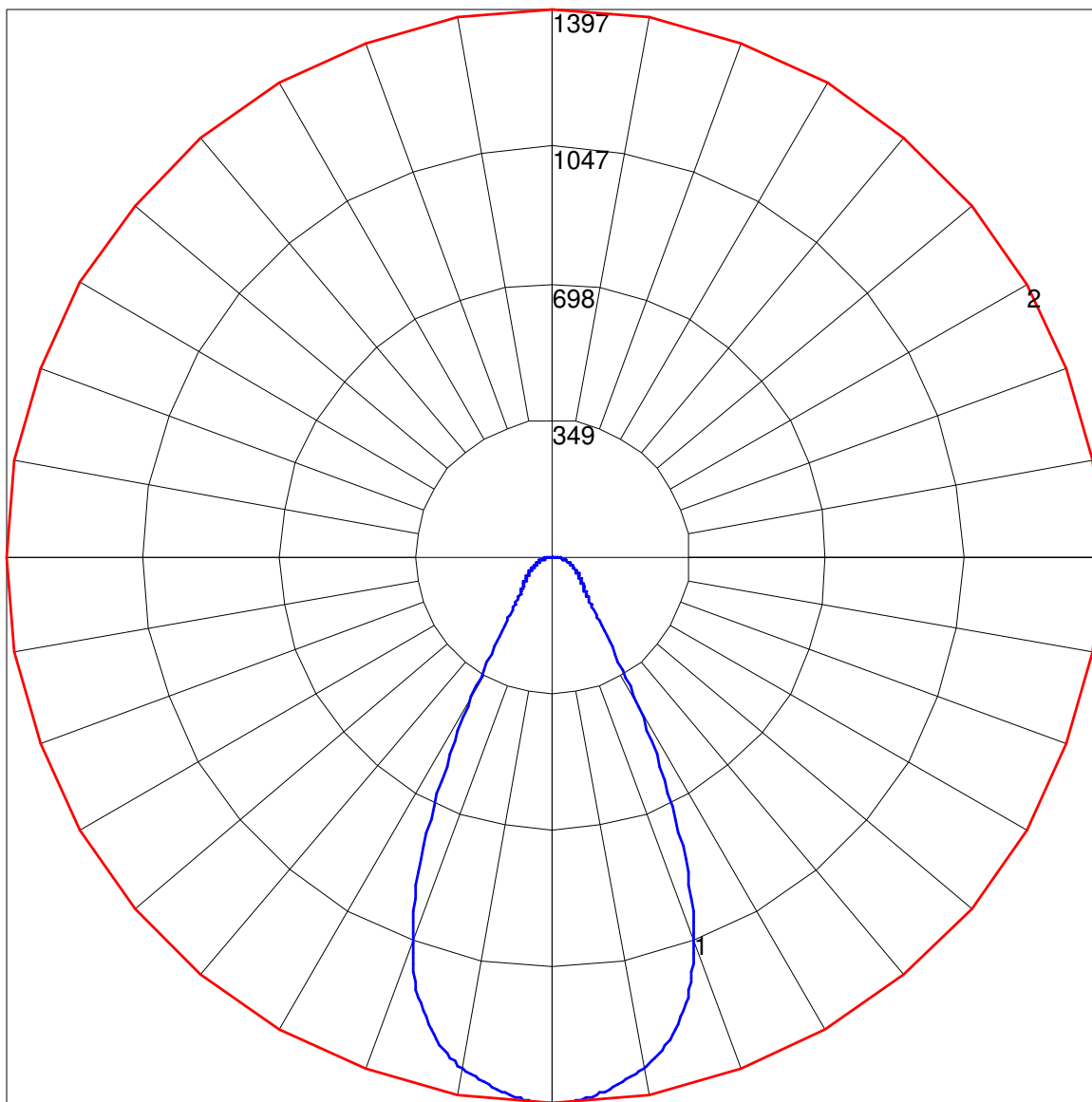
4H	2H	21.8	22.7	22.2	23.1	23.5	21.8	22.7	22.2	23.1	23.5
	3H	23.4	24.2	23.9	24.6	25.1	23.4	24.2	23.9	24.6	25.1
	4H	24.1	24.8	24.5	25.2	25.7	24.1	24.8	24.5	25.2	25.7
	6H	24.5	25.1	25.0	25.6	26.1	24.5	25.1	25.0	25.6	26.1
	8H	24.6	25.2	25.1	25.7	26.1	24.6	25.2	25.1	25.7	26.1
	12H	24.7	25.2	25.2	25.7	26.2	24.7	25.2	25.2	25.7	26.2

8H	4H	24.3	24.8	24.7	25.3	25.8	24.3	24.8	24.7	25.3	25.8
	6H	24.8	25.3	25.3	25.8	26.3	24.8	25.3	25.3	25.8	26.3
	8H	25.0	25.4	25.5	25.9	26.4	25.0	25.4	25.5	25.9	26.4
	12H	25.1	25.5	25.6	26.0	26.5	25.1	25.5	25.6	26.0	26.5

12H	4H	24.2	24.8	24.7	25.2	25.7	24.2	24.8	24.7	25.2	25.7
	6H	24.8	25.3	25.4	25.7	26.3	24.8	25.3	25.4	25.7	26.3
	8H	25.1	25.4	25.6	25.9	26.5	25.1	25.4	25.6	25.9	26.5

Maximum UGR = 26.5

POLAR GRAPH



Maximum Candela = 1396.529 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.)