

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L14-950-DIM-UNV-RW-OF-WH\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] GEN FROM 13257153.03  
[TESTLAB] UL Verification Services Inc.  
[ISSUEDATE] 2025-05-20  
[MANUFAC] WILLIAMS INDOOR  
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
[LUMCAT] V2DR-L14-950-DIM-UNV-RW-OF-WH\_  
[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  
[ \_SEARCH\_MOUNTING] Recessed

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1204
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	70
Total Luminaire Watts	17.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.88
Spacing Criterion (90-270)	0.88
Spacing Criterion (Diagonal)	0.80
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	43157	43157	43157
55	34150	34150	34150
65	25528	25528	25528
75	13292	13292	13292
85	8054	8054	8054

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CANDELA TABULATION

	<u>0</u>
0.0	1434.551
0.5	1434.551
1.0	1433.812
1.5	1433.073
2.0	1433.073
2.5	1431.594
3.0	1429.375
3.5	1426.417
4.0	1423.460
4.5	1420.502
5.0	1416.065
5.5	1412.368
6.0	1407.931
6.5	1402.755
7.0	1397.578
7.5	1392.402
8.0	1387.226
8.5	1381.310
9.0	1374.655
9.5	1368.740
10.0	1362.084
10.5	1354.690
11.0	1346.556
11.5	1338.422
12.0	1329.548
12.5	1320.675
13.0	1311.062
13.5	1300.709
14.0	1289.617
14.5	1278.526
15.0	1265.955
15.5	1253.384
16.0	1239.334
16.5	1225.284
17.0	1210.495
17.5	1194.967
18.0	1178.698
18.5	1160.951
19.0	1142.465
19.5	1122.500
20.0	1101.795
20.5	1080.350
21.0	1057.427
21.5	1033.764
22.0	1007.883
22.5	982.002
23.0	954.642
23.5	926.543
24.0	896.964
24.5	867.386
25.0	837.068
25.5	805.271
26.0	772.735
26.5	740.199

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**CANDELA TABULATION - (Cont.)**

27.0	707.885
27.5	675.422
28.0	642.664
28.5	610.054
29.0	576.704
29.5	543.133
30.0	509.857
30.5	477.099
31.0	444.785
31.5	413.580
32.0	383.558
32.5	355.162
33.0	328.838
33.5	304.435
34.0	281.734
34.5	260.955
35.0	242.099
35.5	224.796
36.0	209.119
36.5	195.069
37.0	182.573
37.5	171.407
38.0	161.276
38.5	152.255
39.0	144.342
39.5	137.392
40.0	131.180
40.5	125.782
41.0	120.976
41.5	116.687
42.0	112.842
42.5	109.440
43.0	106.334
43.5	103.598
44.0	101.010
44.5	98.644
45.0	96.426
45.5	94.281
46.0	92.285
46.5	90.288
47.0	88.439
47.5	86.591
48.0	84.742
48.5	82.967
49.0	81.193
49.5	79.418
50.0	77.717
50.5	76.090
51.0	74.390
51.5	72.763
52.0	71.210
52.5	69.583
53.0	68.030
53.5	66.477
54.0	64.925
54.5	63.372

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**CANDELA TABULATION - (Cont.)**

55.0	61.893
55.5	60.414
56.0	58.935
56.5	57.456
57.0	55.977
57.5	54.572
58.0	53.093
58.5	51.688
59.0	50.283
59.5	48.952
60.0	47.547
60.5	46.142
61.0	44.737
61.5	43.406
62.0	42.001
62.5	40.670
63.0	39.339
63.5	38.008
64.0	36.677
64.5	35.346
65.0	34.089
65.5	32.832
66.0	31.575
66.5	30.244
67.0	29.061
67.5	27.878
68.0	26.621
68.5	25.437
69.0	24.254
69.5	23.071
70.0	21.962
70.5	20.779
71.0	19.670
71.5	18.486
72.0	17.377
72.5	16.268
73.0	15.159
73.5	14.050
74.0	13.014
74.5	11.905
75.0	10.870
75.5	9.909
76.0	8.947
76.5	8.208
77.0	7.542
77.5	6.951
78.0	6.507
78.5	6.138
79.0	5.842
79.5	5.546
80.0	5.176
80.5	4.880
81.0	4.585
81.5	4.289
82.0	3.919
82.5	3.623

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CANDELA TABULATION - (Cont.)

83.0	3.402
83.5	3.106
84.0	2.810
84.5	2.514
85.0	2.218
85.5	1.997
86.0	1.701
86.5	1.479
87.0	1.183
87.5	0.961
88.0	0.739
88.5	0.518
89.0	0.296
89.5	0.222
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
121.0	0.000
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122.0	0.000
122.5	0.000
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130.0	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	485.21	N.A.	40.30
0-30	858.95	N.A.	71.40
0-40	1023.39	N.A.	85.00
0-60	1154.84	N.A.	95.90
0-80	1201.17	N.A.	99.80
0-90	1203.73	N.A.	100.00
10-90	1070.29	N.A.	88.90
20-40	538.18	N.A.	44.70
20-50	614.15	N.A.	51.00
40-70	165.33	N.A.	13.70
60-80	46.33	N.A.	3.80
70-80	12.45	N.A.	1.00
80-90	2.56	N.A.	0.20
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	1203.73	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	133.44
10-20	351.77
20-30	373.74
30-40	164.44
40-50	75.97
50-60	55.47
60-70	33.88
70-80	12.45
80-90	2.56
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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	79
4	96	88	82	78	94	87	81	77	84	80	76	82	78	75	81	77	74	73
5	91	82	76	71	89	81	75	71	79	74	71	78	73	70	76	72	69	68
6	86	77	71	66	85	76	70	66	75	70	66	73	69	65	72	68	65	63
7	82	72	66	62	81	72	66	62	71	65	61	69	65	61	68	64	61	59
8	78	68	62	58	77	68	62	58	67	61	58	66	61	57	65	60	57	56
9	75	65	59	55	73	64	58	55	63	58	54	62	58	54	61	57	54	53
10	71	61	55	52	70	61	55	51	60	55	51	59	55	51	59	54	51	50

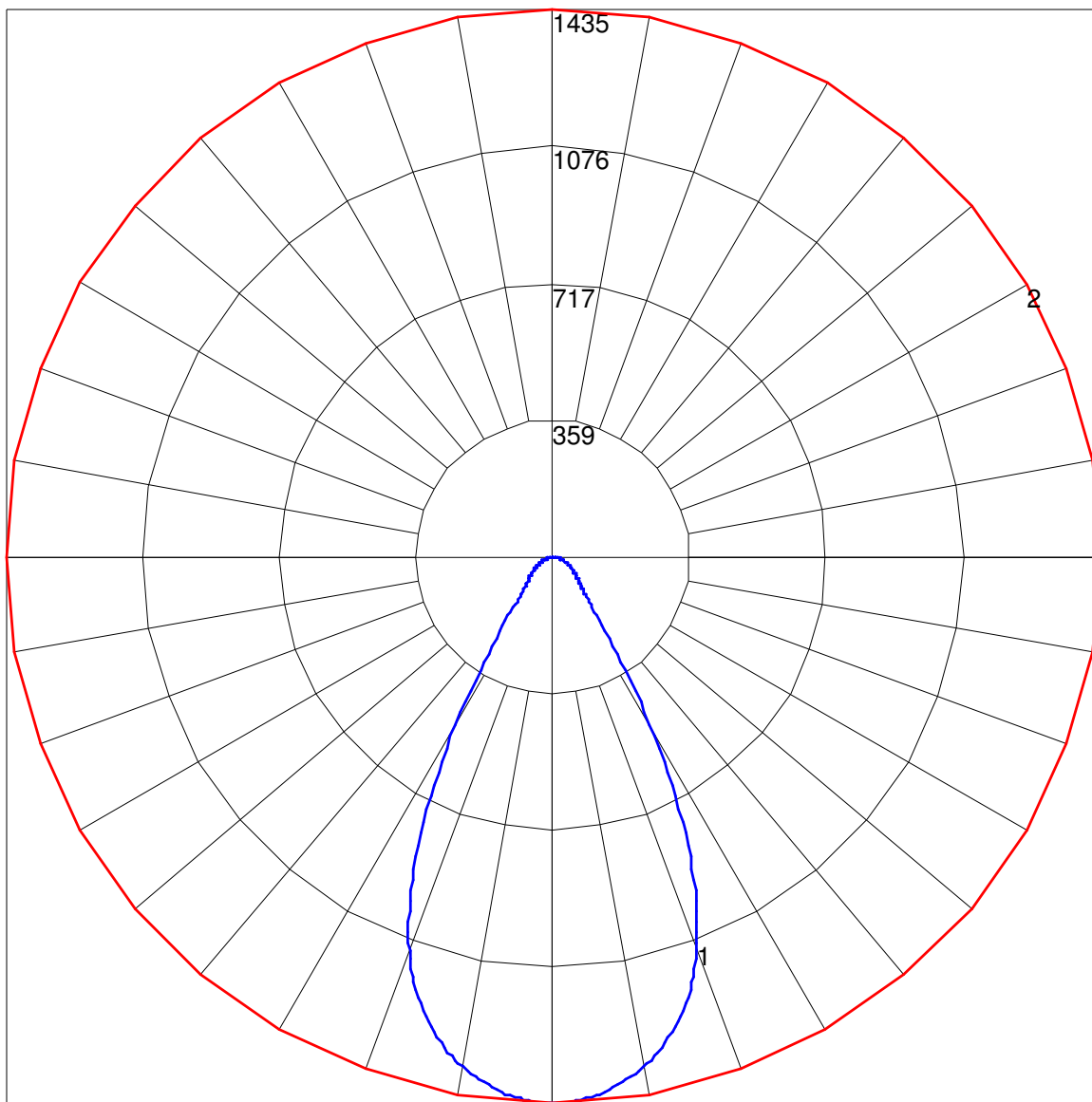
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**UGR TABLE - CORRECTED**

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											
X=2H Y=2H		UGR Viewed Crosswise					UGR Viewed Endwise				
		19.6	20.7	20.0	21.0	21.3	19.6	20.7	20.0	21.0	21.3
	3H	20.6	21.6	21.0	21.9	22.3	20.6	21.6	21.0	21.9	22.3
	4H	20.8	21.7	21.2	22.1	22.5	20.8	21.7	21.2	22.1	22.5
	6H	20.8	21.7	21.3	22.1	22.4	20.8	21.7	21.3	22.1	22.4
	8H	20.8	21.6	21.3	22.0	22.4	20.8	21.6	21.3	22.0	22.4
	12H	20.8	21.6	21.3	22.0	22.4	20.8	21.6	21.3	22.0	22.4
4H	2H	19.9	20.8	20.3	21.2	21.6	19.9	20.8	20.3	21.2	21.6
	3H	21.1	21.8	21.5	22.3	22.7	21.1	21.8	21.5	22.3	22.7
	4H	21.3	22.0	21.8	22.4	22.9	21.3	22.0	21.8	22.4	22.9
	6H	21.4	22.0	21.9	22.4	22.9	21.4	22.0	21.9	22.4	22.9
	8H	21.4	21.9	21.9	22.4	22.9	21.4	21.9	21.9	22.4	22.9
	12H	21.4	21.9	21.9	22.4	22.8	21.4	21.9	21.9	22.4	22.8
8H	4H	21.3	21.9	21.8	22.3	22.8	21.3	21.9	21.8	22.3	22.8
	6H	21.5	21.9	22.0	22.4	22.9	21.5	21.9	22.0	22.4	22.9
	8H	21.5	21.9	22.0	22.4	22.9	21.5	21.9	22.0	22.4	22.9
	12H	21.5	21.8	22.0	22.3	22.9	21.5	21.8	22.0	22.3	22.9
12H	4H	21.3	21.7	21.8	22.2	22.7	21.3	21.7	21.8	22.2	22.7
	6H	21.4	21.8	22.0	22.3	22.8	21.4	21.8	22.0	22.3	22.8
	8H	21.5	21.8	22.0	22.3	22.9	21.5	21.8	22.0	22.3	22.9

Maximum UGR = 22.9

POLAR GRAPH



Maximum Candela = 1434.551 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.)