

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L14-927-DIM-UNV-RW-OF-CS\_.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-L14-927-DIM-UNV-RW-OF-CS\_  
[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	1019
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	59
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	36527	36527	36527
55	28904	28904	28904
65	21606	21606	21606
75	11250	11250	11250
85	6819	6819	6819

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CANDELA TABULATION

	<u>0</u>
0.0	1214.152
0.5	1214.152
1.0	1213.526
1.5	1212.900
2.0	1212.900
2.5	1211.649
3.0	1209.771
3.5	1207.268
4.0	1204.764
4.5	1202.261
5.0	1198.506
5.5	1195.377
6.0	1191.621
6.5	1187.240
7.0	1182.859
7.5	1178.479
8.0	1174.098
8.5	1169.091
9.0	1163.458
9.5	1158.451
10.0	1152.819
10.5	1146.560
11.0	1139.676
11.5	1132.791
12.0	1125.281
12.5	1117.771
13.0	1109.635
13.5	1100.873
14.0	1091.485
14.5	1082.097
15.0	1071.458
15.5	1060.818
16.0	1048.927
16.5	1037.036
17.0	1024.519
17.5	1011.376
18.0	997.607
18.5	982.587
19.0	966.941
19.5	950.043
20.0	932.519
20.5	914.369
21.0	894.968
21.5	874.940
22.0	853.036
22.5	831.131
23.0	807.974
23.5	784.192
24.0	759.158
24.5	734.124
25.0	708.464
25.5	681.552
26.0	654.015
26.5	626.477

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**CANDELA TABULATION - (Cont.)**

27.0	599.128
27.5	571.653
28.0	543.928
28.5	516.328
29.0	488.102
29.5	459.688
30.0	431.525
30.5	403.799
31.0	376.450
31.5	350.039
32.0	324.629
32.5	300.597
33.0	278.316
33.5	257.663
34.0	238.449
34.5	220.863
35.0	204.904
35.5	190.259
36.0	176.991
36.5	165.100
37.0	154.523
37.5	145.072
38.0	136.498
38.5	128.863
39.0	122.166
39.5	116.283
40.0	111.026
40.5	106.457
41.0	102.389
41.5	98.759
42.0	95.505
42.5	92.626
43.0	89.997
43.5	87.682
44.0	85.491
44.5	83.489
45.0	81.611
45.5	79.796
46.0	78.106
46.5	76.416
47.0	74.852
47.5	73.287
48.0	71.723
48.5	70.221
49.0	68.719
49.5	67.216
50.0	65.777
50.5	64.400
51.0	62.961
51.5	61.584
52.0	60.270
52.5	58.893
53.0	57.578
53.5	56.264
54.0	54.950
54.5	53.635

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CANDELA TABULATION - (Cont.)

55.0	52.384
55.5	51.132
56.0	49.880
56.5	48.629
57.0	47.377
57.5	46.188
58.0	44.936
58.5	43.747
59.0	42.558
59.5	41.431
60.0	40.242
60.5	39.053
61.0	37.864
61.5	36.737
62.0	35.548
62.5	34.422
63.0	33.295
63.5	32.169
64.0	31.042
64.5	29.916
65.0	28.852
65.5	27.788
66.0	26.724
66.5	25.597
67.0	24.596
67.5	23.595
68.0	22.531
68.5	21.529
69.0	20.528
69.5	19.527
70.0	18.588
70.5	17.586
71.0	16.648
71.5	15.646
72.0	14.708
72.5	13.769
73.0	12.830
73.5	11.891
74.0	11.015
74.5	10.076
75.0	9.200
75.5	8.386
76.0	7.573
76.5	6.947
77.0	6.384
77.5	5.883
78.0	5.507
78.5	5.195
79.0	4.944
79.5	4.694
80.0	4.381
80.5	4.131
81.0	3.880
81.5	3.630
82.0	3.317
82.5	3.067

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CANDELA TABULATION - (Cont.)

83.0	2.879
83.5	2.629
84.0	2.378
84.5	2.128
85.0	1.878
85.5	1.690
86.0	1.439
86.5	1.252
87.0	1.001
87.5	0.814
88.0	0.626
88.5	0.438
89.0	0.250
89.5	0.188
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
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

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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	410.66	N.A.	40.30
0-30	726.98	N.A.	71.40
0-40	866.16	N.A.	85.00
0-60	977.41	N.A.	95.90
0-80	1016.62	N.A.	99.80
0-90	1018.79	N.A.	100.00
10-90	905.85	N.A.	88.90
20-40	455.50	N.A.	44.70
20-50	519.80	N.A.	51.00
40-70	139.93	N.A.	13.70
60-80	39.21	N.A.	3.80
70-80	10.54	N.A.	1.00
80-90	2.17	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	1018.79	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	112.94
10-20	297.73
20-30	316.32
30-40	139.18
40-50	64.30
50-60	46.95
60-70	28.68
70-80	10.54
80-90	2.17
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	72	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 UGR Viewed Crosswise

X=2H	Y=2H	19.0	20.1	19.4	20.4	20.7	19.0	20.1	19.4	20.4	20.7
	3H	20.0	21.0	20.4	21.3	21.7	20.0	21.0	20.4	21.3	21.7
	4H	20.2	21.1	20.6	21.5	21.9	20.2	21.1	20.6	21.5	21.9
	6H	20.3	21.1	20.7	21.5	21.9	20.3	21.1	20.7	21.5	21.9
	8H	20.3	21.0	20.7	21.4	21.8	20.3	21.0	20.7	21.4	21.8
	12H	20.2	21.0	20.7	21.4	21.8	20.2	21.0	20.7	21.4	21.8

### UGR Viewed Endwise

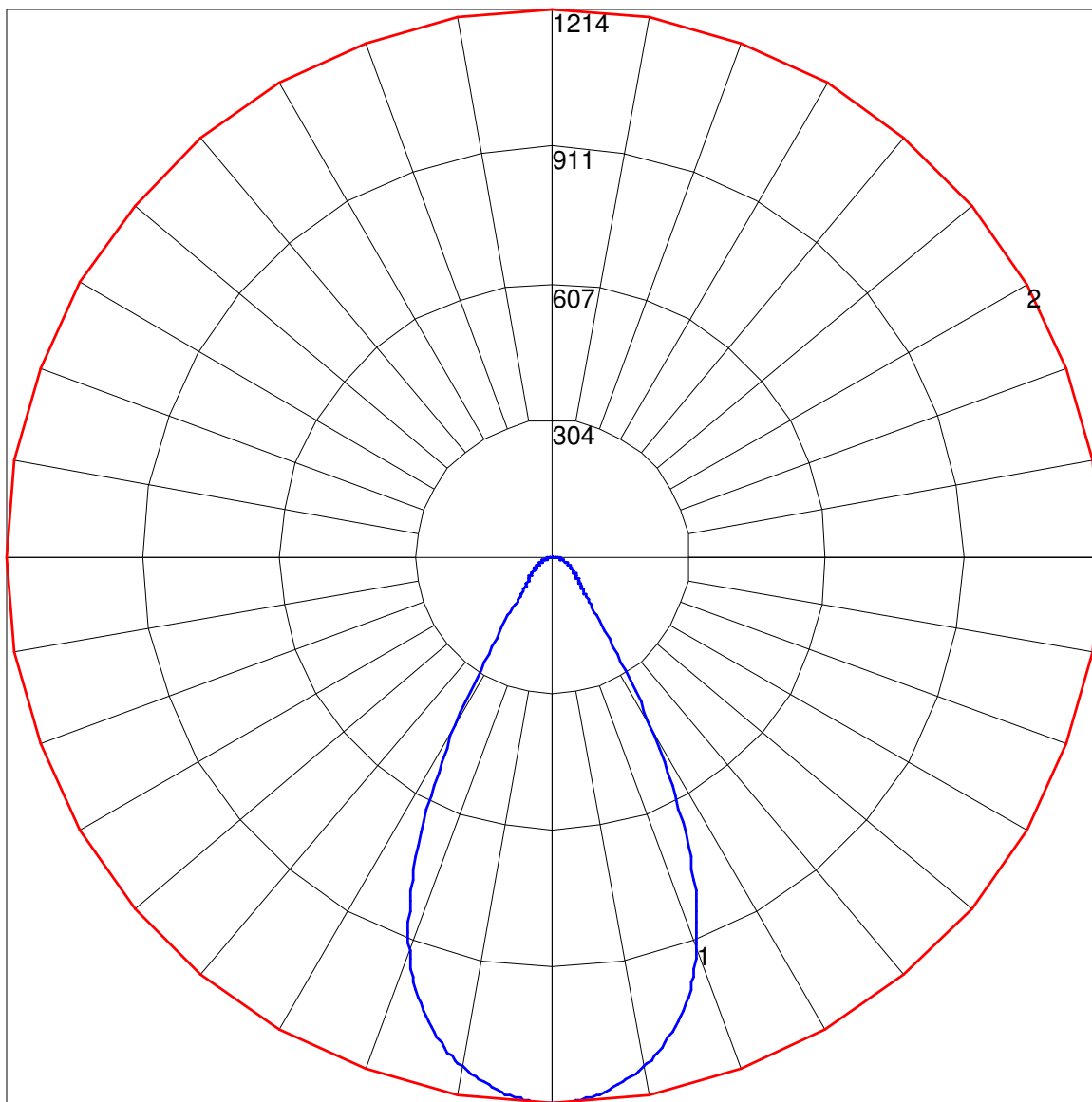
4H	2H	19.3	20.2	19.7	20.6	21.0	19.3	20.2	19.7	20.6	21.0
	3H	20.5	21.2	20.9	21.7	22.1	20.5	21.2	20.9	21.7	22.1
	4H	20.7	21.4	21.2	21.8	22.3	20.7	21.4	21.2	21.8	22.3
	6H	20.8	21.4	21.3	21.8	22.3	20.8	21.4	21.3	21.8	22.3
	8H	20.8	21.3	21.3	21.8	22.3	20.8	21.3	21.3	21.8	22.3
	12H	20.8	21.3	21.3	21.8	22.2	20.8	21.3	21.3	21.8	22.2

8H	4H	20.7	21.3	21.2	21.7	22.2	20.7	21.3	21.2	21.7	22.2
	6H	20.9	21.3	21.4	21.8	22.3	20.9	21.3	21.4	21.8	22.3
	8H	20.9	21.3	21.4	21.8	22.3	20.9	21.3	21.4	21.8	22.3
	12H	20.9	21.3	21.4	21.7	22.3	20.9	21.3	21.4	21.7	22.3

12H	4H	20.7	21.2	21.2	21.6	22.1	20.7	21.2	21.2	21.6	22.1
	6H	20.8	21.2	21.4	21.7	22.2	20.8	21.2	21.4	21.7	22.2
	8H	20.9	21.2	21.4	21.7	22.3	20.9	21.2	21.4	21.7	22.3

Maximum UGR = 22.3

POLAR GRAPH



Maximum Candela = 1214.152 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.)