

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L8-950-DIM-UNV-RW-OF-BL\_.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-L8-950-DIM-UNV-RW-OF-BL\_  
[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  
[SEARCH\_MOUNTING] Recessed

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	555
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	52
Total Luminaire Watts	10.7
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	19888	19888	19888
55	15737	15737	15737
65	11764	11764	11764
75	6125	6125	6125
85	3711	3711	3711

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CANDELA TABULATION

	<u>0</u>
0.0	661.089
0.5	661.089
1.0	660.748
1.5	660.408
2.0	660.408
2.5	659.726
3.0	658.704
3.5	657.341
4.0	655.978
4.5	654.615
5.0	652.570
5.5	650.866
6.0	648.821
6.5	646.436
7.0	644.051
7.5	641.665
8.0	639.280
8.5	636.554
9.0	633.487
9.5	630.761
10.0	627.694
10.5	624.286
11.0	620.538
11.5	616.789
12.0	612.700
12.5	608.611
13.0	604.181
13.5	599.410
14.0	594.299
14.5	589.187
15.0	583.394
15.5	577.601
16.0	571.126
16.5	564.652
17.0	557.837
17.5	550.680
18.0	543.184
18.5	535.005
19.0	526.486
19.5	517.285
20.0	507.744
20.5	497.861
21.0	487.298
21.5	476.393
22.0	464.466
22.5	452.539
23.0	439.931
23.5	426.982
24.0	413.351
24.5	399.720
25.0	385.749
25.5	371.096
26.0	356.102
26.5	341.108

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**CANDELA TABULATION - (Cont.)**

27.0	326.217
27.5	311.257
28.0	296.161
28.5	281.133
29.0	265.765
29.5	250.294
30.0	234.959
30.5	219.863
31.0	204.972
31.5	190.591
32.0	176.756
32.5	163.671
33.0	151.539
33.5	140.294
34.0	129.832
34.5	120.257
35.0	111.567
35.5	103.593
36.0	96.369
36.5	89.894
37.0	84.136
37.5	78.990
38.0	74.321
38.5	70.164
39.0	66.518
39.5	63.315
40.0	60.452
40.5	57.965
41.0	55.750
41.5	53.773
42.0	52.001
42.5	50.434
43.0	49.002
43.5	47.742
44.0	46.549
44.5	45.458
45.0	44.436
45.5	43.448
46.0	42.528
46.5	41.608
47.0	40.756
47.5	39.904
48.0	39.052
48.5	38.234
49.0	37.416
49.5	36.598
50.0	35.815
50.5	35.065
51.0	34.281
51.5	33.532
52.0	32.816
52.5	32.066
53.0	31.351
53.5	30.635
54.0	29.919
54.5	29.204

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**CANDELA TABULATION - (Cont.)**

55.0	28.522
55.5	27.841
56.0	27.159
56.5	26.478
57.0	25.796
57.5	25.149
58.0	24.467
58.5	23.820
59.0	23.172
59.5	22.559
60.0	21.911
60.5	21.264
61.0	20.616
61.5	20.003
62.0	19.356
62.5	18.742
63.0	18.129
63.5	17.515
64.0	16.902
64.5	16.289
65.0	15.709
65.5	15.130
66.0	14.551
66.5	13.937
67.0	13.392
67.5	12.847
68.0	12.268
68.5	11.722
69.0	11.177
69.5	10.632
70.0	10.121
70.5	9.576
71.0	9.064
71.5	8.519
72.0	8.008
72.5	7.497
73.0	6.986
73.5	6.475
74.0	5.998
74.5	5.486
75.0	5.009
75.5	4.566
76.0	4.123
76.5	3.783
77.0	3.476
77.5	3.203
78.0	2.999
78.5	2.828
79.0	2.692
79.5	2.556
80.0	2.385
80.5	2.249
81.0	2.113
81.5	1.976
82.0	1.806
82.5	1.670

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CANDELA TABULATION - (Cont.)

83.0	1.568
83.5	1.431
84.0	1.295
84.5	1.159
85.0	1.022
85.5	0.920
86.0	0.784
86.5	0.682
87.0	0.545
87.5	0.443
88.0	0.341
88.5	0.239
89.0	0.136
89.5	0.102
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	223.60	N.A.	40.30
0-30	395.83	N.A.	71.40
0-40	471.61	N.A.	85.00
0-60	532.19	N.A.	95.90
0-80	553.54	N.A.	99.80
0-90	554.72	N.A.	100.00
10-90	493.22	N.A.	88.90
20-40	248.01	N.A.	44.70
20-50	283.02	N.A.	51.00
40-70	76.19	N.A.	13.70
60-80	21.35	N.A.	3.80
70-80	5.74	N.A.	1.00
80-90	1.18	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	554.72	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	61.49
10-20	162.11
20-30	172.23
30-40	75.78
40-50	35.01
50-60	25.56
60-70	15.61
70-80	5.74
80-90	1.18
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	96	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	78
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	70	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	74	65	59	55	73	64	58	54	63	58	54	62	58	54	61	57	54	53
10	71	61	55	52	70	61	55	51	60	55	51	59	54	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

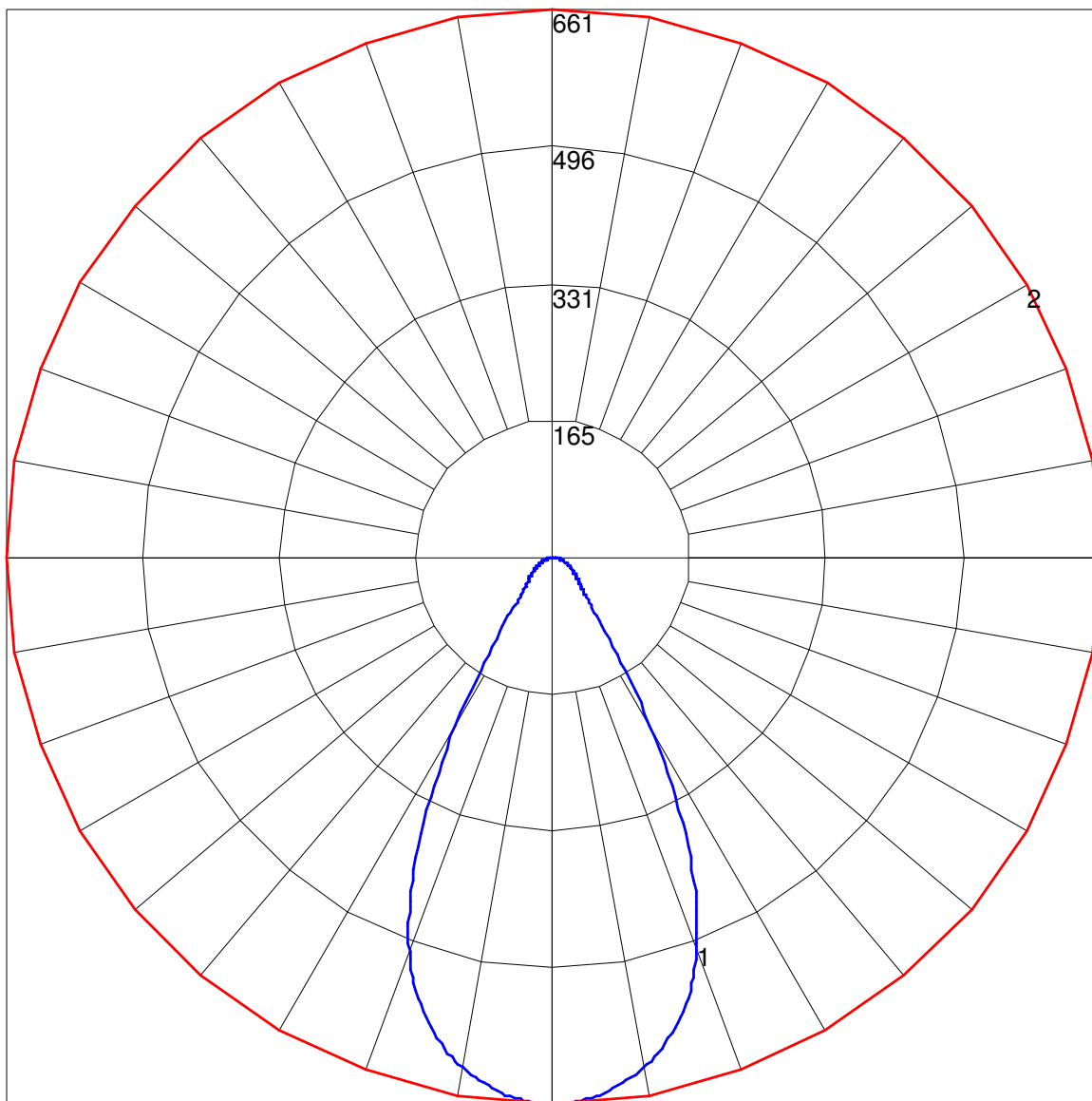
X=2H	Y=2H	16.9	18.0	17.3	18.3	18.6	16.9	18.0	17.3	18.3	18.6
	3H	17.9	18.9	18.3	19.2	19.6	17.9	18.9	18.3	19.2	19.6
	4H	18.1	19.0	18.5	19.4	19.8	18.1	19.0	18.5	19.4	19.8
	6H	18.2	19.0	18.6	19.4	19.8	18.2	19.0	18.6	19.4	19.8
	8H	18.2	18.9	18.6	19.3	19.7	18.2	18.9	18.6	19.3	19.7
	12H	18.1	18.9	18.6	19.3	19.7	18.1	18.9	18.6	19.3	19.7

UGR Viewed Endwise

4H	2H	17.2	18.1	17.6	18.5	18.9	17.2	18.1	17.6	18.5	18.9
	3H	18.4	19.2	18.8	19.6	20.0	18.4	19.2	18.8	19.6	20.0
	4H	18.6	19.3	19.1	19.7	20.2	18.6	19.3	19.1	19.7	20.2
	6H	18.7	19.3	19.2	19.7	20.2	18.7	19.3	19.2	19.7	20.2
	8H	18.7	19.3	19.2	19.7	20.2	18.7	19.3	19.2	19.7	20.2
	12H	18.7	19.2	19.2	19.7	20.1	18.7	19.2	19.2	19.7	20.1
8H	4H	18.6	19.2	19.1	19.6	20.1	18.6	19.2	19.1	19.6	20.1
	6H	18.8	19.2	19.3	19.7	20.2	18.8	19.2	19.3	19.7	20.2
	8H	18.8	19.2	19.3	19.7	20.2	18.8	19.2	19.3	19.7	20.2
	12H	18.8	19.2	19.3	19.7	20.2	18.8	19.2	19.3	19.7	20.2
12H	4H	18.6	19.1	19.1	19.5	20.0	18.6	19.1	19.1	19.5	20.0
	6H	18.7	19.1	19.3	19.6	20.1	18.7	19.1	19.3	19.6	20.1
	8H	18.8	19.1	19.3	19.6	20.2	18.8	19.1	19.3	19.6	20.2

Maximum UGR = 20.2

POLAR GRAPH



Maximum Candela = 661.089 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.)