

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L8-950-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-L8-950-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	723
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	68
Total Luminaire Watts	10.7
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	29836	29836	29836
55	26058	26058	26058
65	22261	22261	22261
75	17959	17959	17959
85	10058	10058	10058

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CANDELA TABULATION

	<u>0</u>
0.0	853.521
0.5	853.081
1.0	853.081
1.5	852.641
2.0	852.202
2.5	850.882
3.0	849.563
3.5	848.244
4.0	846.485
4.5	844.286
5.0	842.088
5.5	839.889
6.0	837.690
6.5	835.052
7.0	832.414
7.5	829.775
8.0	826.697
8.5	823.619
9.0	820.101
9.5	816.583
10.0	812.626
10.5	808.228
11.0	803.831
11.5	798.994
12.0	794.157
12.5	788.440
13.0	782.724
13.5	776.568
14.0	769.972
14.5	762.936
15.0	755.460
15.5	747.106
16.0	738.751
16.5	729.516
17.0	719.402
17.5	709.289
18.0	697.855
18.5	685.983
19.0	672.791
19.5	658.719
20.0	644.208
20.5	628.378
21.0	612.108
21.5	594.518
22.0	576.050
22.5	557.141
23.0	537.353
23.5	517.125
24.0	496.458
24.5	475.351
25.0	453.804
25.5	432.477
26.0	410.886
26.5	389.515

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CANDELA TABULATION - (Cont.)

27.0	368.452
27.5	347.828
28.0	327.645
28.5	307.945
29.0	288.860
29.5	270.260
30.0	252.802
30.5	236.312
31.0	220.746
31.5	206.235
32.0	192.647
32.5	180.026
33.0	168.462
33.5	157.864
34.0	148.234
34.5	139.439
35.0	131.436
35.5	124.180
36.0	117.628
36.5	111.780
37.0	106.503
37.5	101.798
38.0	97.577
38.5	93.751
39.0	90.321
39.5	87.243
40.0	84.429
40.5	81.922
41.0	79.636
41.5	77.525
42.0	75.590
42.5	73.787
43.0	72.160
43.5	70.665
44.0	69.258
44.5	67.939
45.0	66.663
45.5	65.476
46.0	64.333
46.5	63.234
47.0	62.178
47.5	61.123
48.0	60.111
48.5	59.100
49.0	58.089
49.5	57.121
50.0	56.198
50.5	55.274
51.0	54.307
51.5	53.427
52.0	52.504
52.5	51.625
53.0	50.745
53.5	49.866
54.0	48.986
54.5	48.107

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CANDELA TABULATION - (Cont.)

55.0	47.227
55.5	46.348
56.0	45.512
56.5	44.589
57.0	43.753
57.5	42.874
58.0	41.994
58.5	41.115
59.0	40.236
59.5	39.356
60.0	38.477
60.5	37.597
61.0	36.718
61.5	35.794
62.0	34.959
62.5	34.079
63.0	33.156
63.5	32.276
64.0	31.397
64.5	30.561
65.0	29.726
65.5	28.890
66.0	28.055
66.5	27.263
67.0	26.428
67.5	25.680
68.0	24.889
68.5	24.141
69.0	23.394
69.5	22.602
70.0	21.855
70.5	21.107
71.0	20.404
71.5	19.656
72.0	18.908
72.5	18.205
73.0	17.457
73.5	16.754
74.0	16.094
74.5	15.391
75.0	14.687
75.5	14.027
76.0	13.368
76.5	12.708
77.0	12.093
77.5	11.433
78.0	10.817
78.5	10.202
79.0	9.586
79.5	8.971
80.0	8.399
80.5	7.783
81.0	7.212
81.5	6.640
82.0	6.068
82.5	5.497

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CANDELA TABULATION - (Cont.)

83.0	4.969
83.5	4.397
84.0	3.870
84.5	3.298
85.0	2.770
85.5	2.199
86.0	1.627
86.5	1.231
87.0	0.879
87.5	0.528
88.0	0.352
88.5	0.264
89.0	0.176
89.5	0.132
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
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127.0	0.000
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128.0	0.000
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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
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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	288.56	N.A.	39.90
0-30	491.94	N.A.	68.00
0-40	580.31	N.A.	80.20
0-60	674.76	N.A.	93.30
0-80	719.97	N.A.	99.50
0-90	723.45	N.A.	100.00
10-90	643.99	N.A.	89.00
20-40	291.75	N.A.	40.30
20-50	343.97	N.A.	47.50
40-70	124.01	N.A.	17.10
60-80	45.21	N.A.	6.20
70-80	15.65	N.A.	2.20
80-90	3.48	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	723.45	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	79.47
10-20	209.09
20-30	203.39
30-40	88.36
40-50	52.21
50-60	42.24
60-70	29.56
70-80	15.65
80-90	3.48
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	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	95	86	80	75	93	85	79	75	83	78	74	81	76	73	79	75	72	71
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	60	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	50	58	53	49	57	52	49	48

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UGR TABLE - CORRECTED

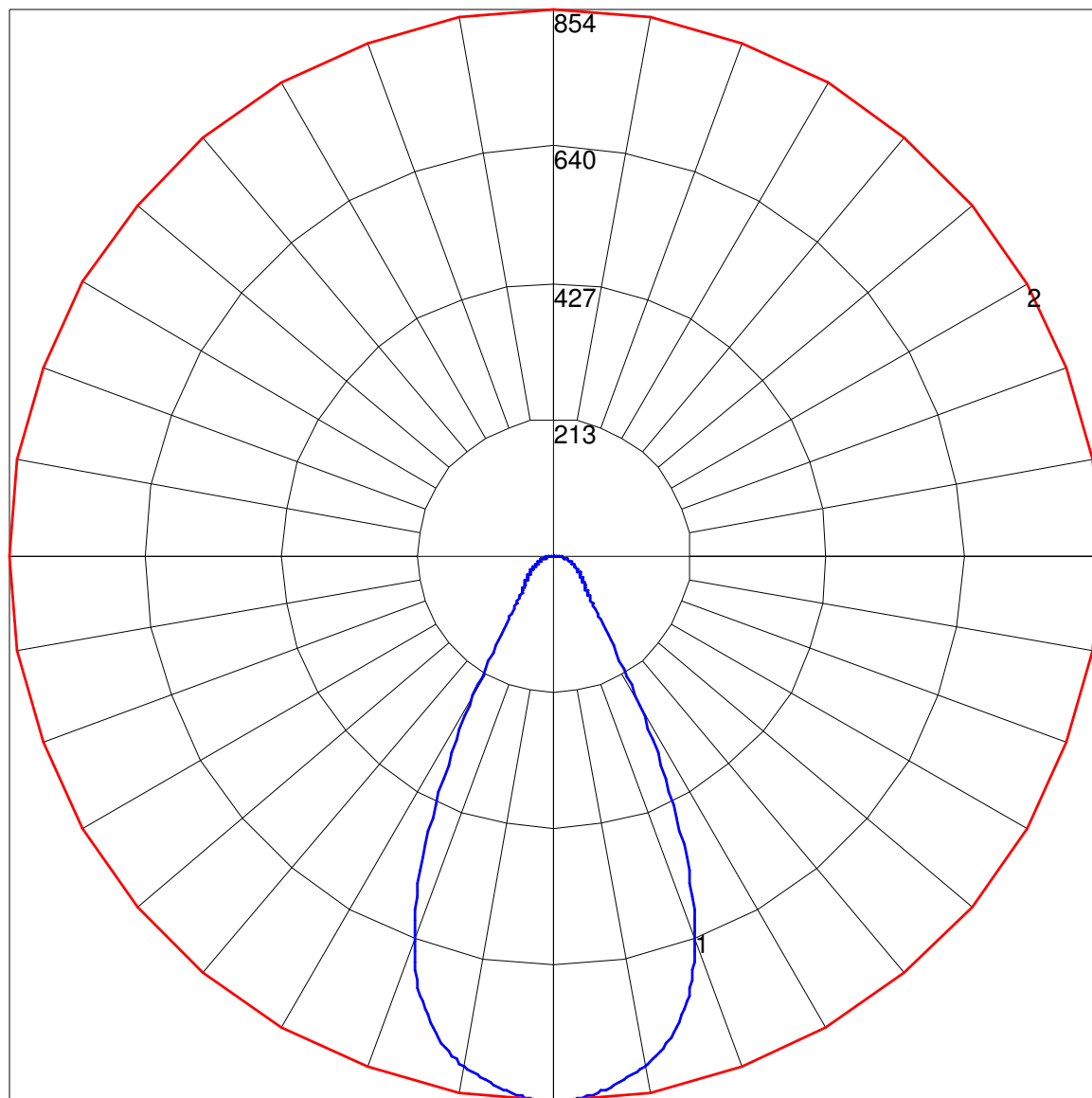
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	19.6	20.8	19.9	21.1	21.4	19.6	20.8	19.9	21.1	21.4
	3H	21.1	22.1	21.5	22.4	22.8	21.1	22.1	21.5	22.4	22.8
	4H	21.6	22.6	22.0	22.9	23.3	21.6	22.6	22.0	22.9	23.3
	6H	21.9	22.8	22.3	23.2	23.6	21.9	22.8	22.3	23.2	23.6
	8H	22.0	22.9	22.4	23.3	23.7	22.0	22.9	22.4	23.3	23.7
	12H	22.1	22.9	22.5	23.2	23.7	22.1	22.9	22.5	23.2	23.7
4H	2H	20.1	21.0	20.5	21.4	21.8	20.1	21.0	20.5	21.4	21.8
	3H	21.7	22.5	22.2	22.9	23.4	21.7	22.5	22.2	22.9	23.4
	4H	22.4	23.1	22.8	23.5	24.0	22.4	23.1	22.8	23.5	24.0
	6H	22.8	23.4	23.3	23.9	24.4	22.8	23.4	23.3	23.9	24.4
	8H	22.9	23.5	23.4	24.0	24.4	22.9	23.5	23.4	24.0	24.4
	12H	23.0	23.5	23.5	24.0	24.5	23.0	23.5	23.5	24.0	24.5
8H	4H	22.6	23.1	23.0	23.6	24.1	22.6	23.1	23.0	23.6	24.1
	6H	23.1	23.6	23.6	24.1	24.6	23.1	23.6	23.6	24.1	24.6
	8H	23.3	23.7	23.8	24.2	24.7	23.3	23.7	23.8	24.2	24.7
	12H	23.4	23.8	23.9	24.3	24.8	23.4	23.8	23.9	24.3	24.8
12H	4H	22.5	23.1	23.0	23.5	24.0	22.5	23.1	23.0	23.5	24.0
	6H	23.1	23.6	23.7	24.0	24.6	23.1	23.6	23.7	24.0	24.6
	8H	23.4	23.7	23.9	24.2	24.8	23.4	23.7	23.9	24.2	24.8

Maximum UGR = 24.8

POLAR GRAPH



Maximum Candela = 853.521 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.)