

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L8-950-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.
[ISSUE DATE] 2025-05-20
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] V2DR-L8-950-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 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	688
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	64
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	24671	24671	24671
55	19523	19523	19523
65	14594	14594	14594
75	7598	7598	7598
85	4604	4604	4604

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CANDELA TABULATION

	<u>0</u>
0.0	820.085
0.5	820.085
1.0	819.662
1.5	819.240
2.0	819.240
2.5	818.394
3.0	817.126
3.5	815.435
4.0	813.744
4.5	812.053
5.0	809.517
5.5	807.403
6.0	804.867
6.5	801.908
7.0	798.949
7.5	795.990
8.0	793.031
8.5	789.649
9.0	785.844
9.5	782.463
10.0	778.658
10.5	774.431
11.0	769.781
11.5	765.131
12.0	760.058
12.5	754.986
13.0	749.490
13.5	743.572
14.0	737.231
14.5	730.890
15.0	723.704
15.5	716.518
16.0	708.486
16.5	700.454
17.0	692.000
17.5	683.122
18.0	673.823
18.5	663.677
19.0	653.109
19.5	641.695
20.0	629.859
20.5	617.600
21.0	604.496
21.5	590.969
22.0	576.173
22.5	561.378
23.0	545.737
23.5	529.674
24.0	512.765
24.5	495.856
25.0	478.524
25.5	460.347
26.0	441.747
26.5	423.147

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V2DR-L8-950-DIM-UNV-RW-OF-CS_.IES

CANDELA TABULATION - (Cont.)

27.0	404.674
27.5	386.116
28.0	367.390
28.5	348.748
29.0	329.683
29.5	310.491
30.0	291.468
30.5	272.742
31.0	254.269
31.5	236.430
32.0	219.267
32.5	203.034
33.0	187.985
33.5	174.036
34.0	161.058
34.5	149.179
35.0	138.400
35.5	128.508
36.0	119.546
36.5	111.515
37.0	104.371
37.5	97.987
38.0	92.196
38.5	87.039
39.0	82.516
39.5	78.542
40.0	74.991
40.5	71.905
41.0	69.158
41.5	66.706
42.0	64.508
42.5	62.563
43.0	60.788
43.5	59.224
44.0	57.744
44.5	56.391
45.0	55.123
45.5	53.897
46.0	52.756
46.5	51.615
47.0	50.558
47.5	49.501
48.0	48.444
48.5	47.430
49.0	46.415
49.5	45.401
50.0	44.428
50.5	43.498
51.0	42.526
51.5	41.596
52.0	40.708
52.5	39.778
53.0	38.891
53.5	38.003
54.0	37.115
54.5	36.227

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V2DR-L8-950-DIM-UNV-RW-OF-CS_.IES

CANDELA TABULATION - (Cont.)

55.0	35.382
55.5	34.537
56.0	33.691
56.5	32.846
57.0	32.000
57.5	31.197
58.0	30.352
58.5	29.548
59.0	28.745
59.5	27.984
60.0	27.181
60.5	26.378
61.0	25.575
61.5	24.814
62.0	24.011
62.5	23.250
63.0	22.489
63.5	21.728
64.0	20.967
64.5	20.206
65.0	19.488
65.5	18.769
66.0	18.050
66.5	17.289
67.0	16.613
67.5	15.937
68.0	15.218
68.5	14.542
69.0	13.865
69.5	13.189
70.0	12.555
70.5	11.879
71.0	11.244
71.5	10.568
72.0	9.934
72.5	9.300
73.0	8.666
73.5	8.032
74.0	7.440
74.5	6.806
75.0	6.214
75.5	5.665
76.0	5.115
76.5	4.692
77.0	4.312
77.5	3.974
78.0	3.720
78.5	3.509
79.0	3.340
79.5	3.170
80.0	2.959
80.5	2.790
81.0	2.621
81.5	2.452
82.0	2.240
82.5	2.071

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PHOTOMETRIC FILENAME : V2DR-L8-950-DIM-UNV-RW-OF-CS_.IES

CANDELA TABULATION - (Cont.)

83.0	1.945
83.5	1.775
84.0	1.606
84.5	1.437
85.0	1.268
85.5	1.141
86.0	0.972
86.5	0.845
87.0	0.676
87.5	0.550
88.0	0.423
88.5	0.296
89.0	0.169
89.5	0.127
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V2DR-L8-950-DIM-UNV-RW-OF-CS_.IES

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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121.5	0.000
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123.0	0.000
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124.0	0.000
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125.5	0.000
126.0	0.000
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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
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132.0	0.000
132.5	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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V2DR-L8-950-DIM-UNV-RW-OF-CS_.IES

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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V2DR-L8-950-DIM-UNV-RW-OF-CS_.IES

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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PHOTOMETRIC FILENAME : V2DR-L8-950-DIM-UNV-RW-OF-CS_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	277.38	N.A.	40.30
0-30	491.03	N.A.	71.40
0-40	585.04	N.A.	85.00
0-60	660.18	N.A.	95.90
0-80	686.67	N.A.	99.80
0-90	688.13	N.A.	100.00
10-90	611.85	N.A.	88.90
20-40	307.66	N.A.	44.70
20-50	351.09	N.A.	51.00
40-70	94.51	N.A.	13.70
60-80	26.49	N.A.	3.80
70-80	7.12	N.A.	1.00
80-90	1.46	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	688.13	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	76.28
10-20	201.10
20-30	213.65
30-40	94.01
40-50	43.43
50-60	31.71
60-70	19.37
70-80	7.12
80-90	1.46
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	86	83	80	79
4	96	88	82	78	94	87	81	77	85	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	73	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	62	57	54	53
10	71	61	55	52	70	61	55	51	60	55	51	59	55	51	59	54	51	50

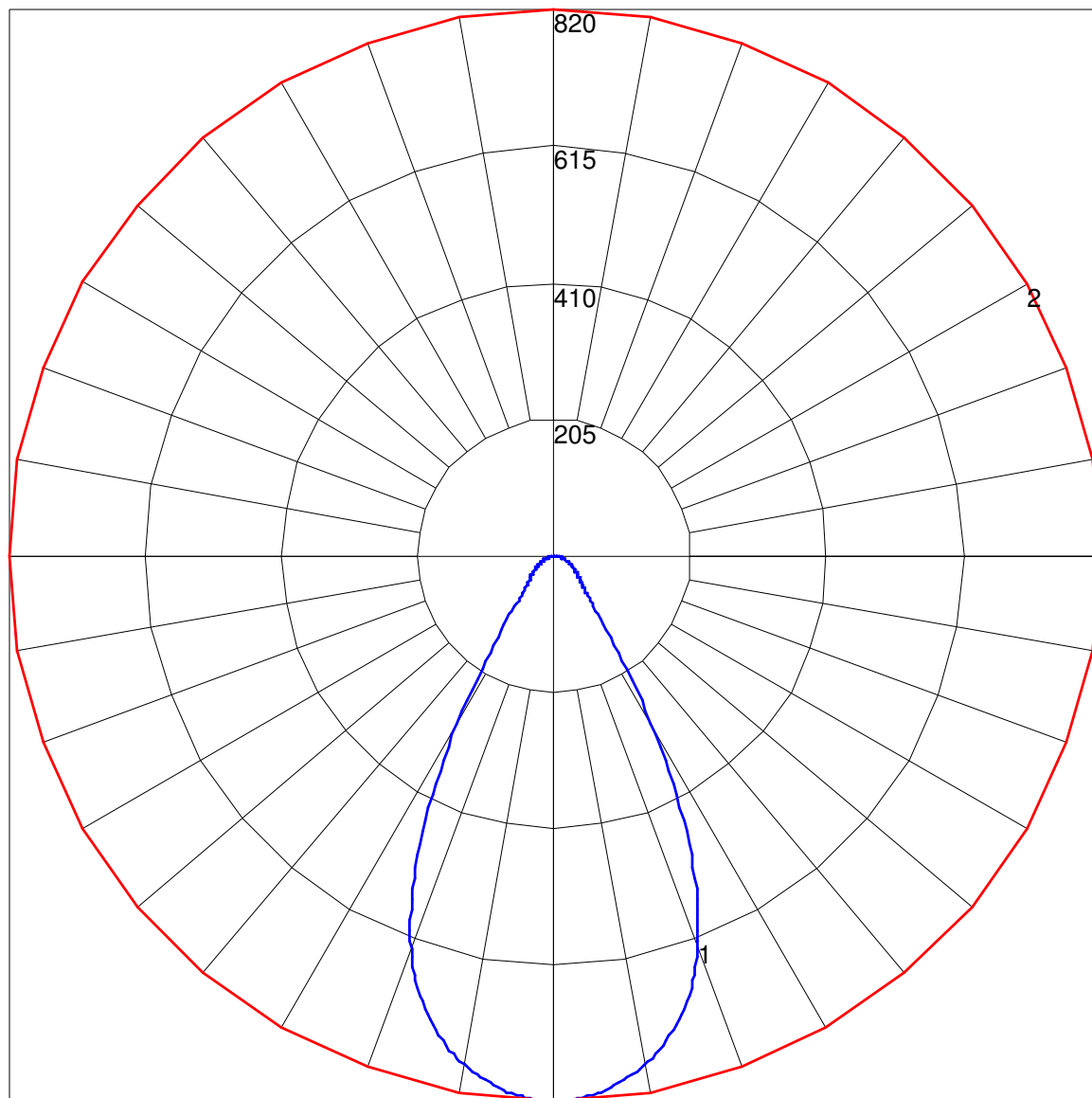
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UGR TABLE - CORRECTED

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					UGR Viewed Endwise				
X=2H	Y=2H	17.6	18.7	18.0	19.0	19.3	17.6	18.7	18.0	19.0	19.3
	3H	18.6	19.6	19.0	19.9	20.3	18.6	19.6	19.0	19.9	20.3
	4H	18.8	19.7	19.2	20.1	20.5	18.8	19.7	19.2	20.1	20.5
	6H	18.8	19.7	19.3	20.1	20.4	18.8	19.7	19.3	20.1	20.4
	8H	18.8	19.6	19.3	20.0	20.4	18.8	19.6	19.3	20.0	20.4
	12H	18.8	19.6	19.3	20.0	20.4	18.8	19.6	19.3	20.0	20.4
4H	2H	17.9	18.8	18.3	19.2	19.6	17.9	18.8	18.3	19.2	19.6
	3H	19.1	19.8	19.5	20.3	20.7	19.1	19.8	19.5	20.3	20.7
	4H	19.3	20.0	19.8	20.4	20.9	19.3	20.0	19.8	20.4	20.9
	6H	19.4	20.0	19.9	20.4	20.9	19.4	20.0	19.9	20.4	20.9
	8H	19.4	19.9	19.9	20.4	20.9	19.4	19.9	19.9	20.4	20.9
	12H	19.4	19.9	19.9	20.4	20.8	19.4	19.9	19.9	20.4	20.8
8H	4H	19.3	19.9	19.8	20.3	20.8	19.3	19.9	19.8	20.3	20.8
	6H	19.5	19.9	20.0	20.4	20.9	19.5	19.9	20.0	20.4	20.9
	8H	19.5	19.9	20.0	20.4	20.9	19.5	19.9	20.0	20.4	20.9
	12H	19.5	19.8	20.0	20.3	20.9	19.5	19.8	20.0	20.3	20.9
12H	4H	19.3	19.7	19.8	20.2	20.7	19.3	19.7	19.8	20.2	20.7
	6H	19.4	19.8	20.0	20.3	20.8	19.4	19.8	20.0	20.3	20.8
	8H	19.5	19.8	20.0	20.3	20.9	19.5	19.8	20.0	20.3	20.9

Maximum UGR = 20.9

POLAR GRAPH



Maximum Candela = 820.085 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.)