

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L8-940-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-L8-940-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	657
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	61
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	23550	23550	23550
55	18635	18635	18635
65	13930	13930	13930
75	7254	7254	7254
85	4397	4397	4397

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CANDELA TABULATION

	<u>0</u>
0.0	782.809
0.5	782.809
1.0	782.405
1.5	782.002
2.0	782.002
2.5	781.195
3.0	779.984
3.5	778.370
4.0	776.756
4.5	775.142
5.0	772.721
5.5	770.703
6.0	768.282
6.5	765.458
7.0	762.633
7.5	759.809
8.0	756.984
8.5	753.756
9.0	750.124
9.5	746.896
10.0	743.265
10.5	739.230
11.0	734.791
11.5	730.352
12.0	725.510
12.5	720.668
13.0	715.422
13.5	709.773
14.0	703.721
14.5	697.668
15.0	690.808
15.5	683.949
16.0	676.282
16.5	668.615
17.0	660.545
17.5	652.071
18.0	643.194
18.5	633.510
19.0	623.422
19.5	612.528
20.0	601.229
20.5	589.528
21.0	577.019
21.5	564.106
22.0	549.984
22.5	535.861
23.0	520.931
23.5	505.598
24.0	489.457
24.5	473.317
25.0	456.773
25.5	439.422
26.0	421.668
26.5	403.913

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CANDELA TABULATION - (Cont.)

27.0	386.280
27.5	368.566
28.0	350.690
28.5	332.895
29.0	314.697
29.5	296.378
30.0	278.220
30.5	260.344
31.0	242.711
31.5	225.683
32.0	209.300
32.5	193.806
33.0	179.441
33.5	166.125
34.0	153.737
34.5	142.399
35.0	132.109
35.5	122.667
36.0	114.113
36.5	106.446
37.0	99.627
37.5	93.534
38.0	88.005
38.5	83.083
39.0	78.765
39.5	74.972
40.0	71.583
40.5	68.637
41.0	66.014
41.5	63.674
42.0	61.576
42.5	59.719
43.0	58.025
43.5	56.532
44.0	55.119
44.5	53.828
45.0	52.618
45.5	51.447
46.0	50.358
46.5	49.269
47.0	48.260
47.5	47.251
48.0	46.242
48.5	45.274
49.0	44.305
49.5	43.337
50.0	42.409
50.5	41.521
51.0	40.593
51.5	39.705
52.0	38.858
52.5	37.970
53.0	37.123
53.5	36.276
54.0	35.428
54.5	34.581

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CANDELA TABULATION - (Cont.)

55.0	33.774
55.5	32.967
56.0	32.160
56.5	31.353
57.0	30.546
57.5	29.779
58.0	28.972
58.5	28.205
59.0	27.439
59.5	26.712
60.0	25.946
60.5	25.179
61.0	24.412
61.5	23.686
62.0	22.919
62.5	22.193
63.0	21.467
63.5	20.740
64.0	20.014
64.5	19.288
65.0	18.602
65.5	17.916
66.0	17.230
66.5	16.504
67.0	15.858
67.5	15.212
68.0	14.526
68.5	13.881
69.0	13.235
69.5	12.589
70.0	11.984
70.5	11.339
71.0	10.733
71.5	10.088
72.0	9.482
72.5	8.877
73.0	8.272
73.5	7.667
74.0	7.102
74.5	6.497
75.0	5.932
75.5	5.407
76.0	4.882
76.5	4.479
77.0	4.116
77.5	3.793
78.0	3.551
78.5	3.349
79.0	3.188
79.5	3.026
80.0	2.825
80.5	2.663
81.0	2.502
81.5	2.340
82.0	2.139
82.5	1.977

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CANDELA TABULATION - (Cont.)

83.0	1.856
83.5	1.695
84.0	1.533
84.5	1.372
85.0	1.211
85.5	1.089
86.0	0.928
86.5	0.807
87.0	0.646
87.5	0.525
88.0	0.404
88.5	0.282
89.0	0.161
89.5	0.121
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
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125.5	0.000
126.0	0.000
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127.0	0.000
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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
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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
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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	264.77	N.A.	40.30
0-30	468.71	N.A.	71.40
0-40	558.45	N.A.	85.00
0-60	630.17	N.A.	95.90
0-80	655.46	N.A.	99.80
0-90	656.85	N.A.	100.00
10-90	584.04	N.A.	88.90
20-40	293.68	N.A.	44.70
20-50	335.13	N.A.	51.00
40-70	90.22	N.A.	13.70
60-80	25.28	N.A.	3.80
70-80	6.79	N.A.	1.00
80-90	1.40	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	656.85	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	72.81
10-20	191.96
20-30	203.94
30-40	89.73
40-50	41.46
50-60	30.27
60-70	18.49
70-80	6.79
80-90	1.40
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

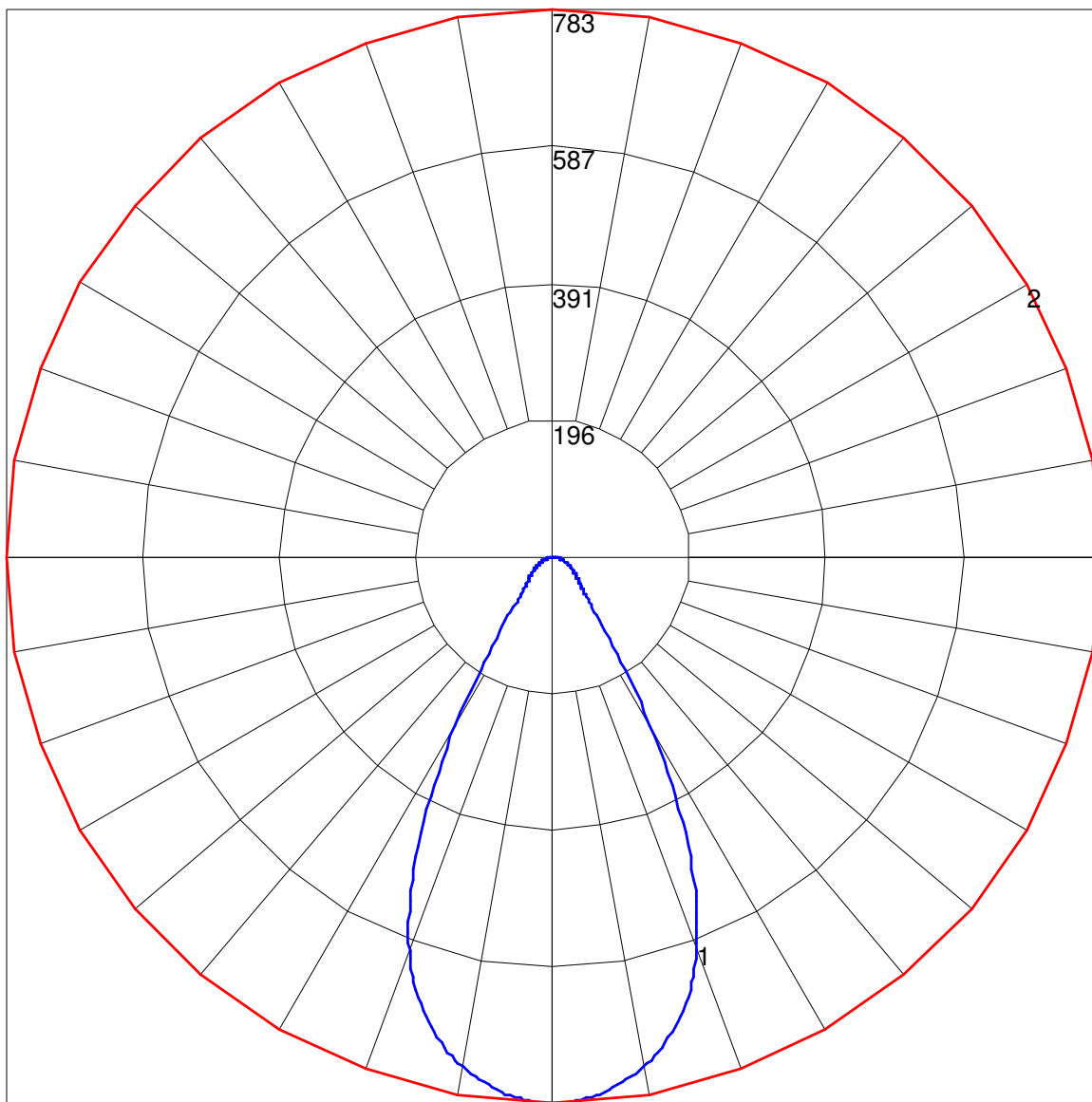
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UGR TABLE - CORRECTED

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		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	17.5	18.6	17.9	18.9	19.2	17.5	18.6	17.9	18.9	19.2
	3H	18.5	19.5	18.9	19.8	20.2	18.5	19.5	18.9	19.8	20.2
	4H	18.7	19.6	19.1	20.0	20.4	18.7	19.6	19.1	20.0	20.4
	6H	18.8	19.6	19.2	20.0	20.4	18.8	19.6	19.2	20.0	20.4
	8H	18.8	19.5	19.2	19.9	20.3	18.8	19.5	19.2	19.9	20.3
	12H	18.7	19.5	19.2	19.9	20.3	18.7	19.5	19.2	19.9	20.3
4H	2H	17.8	18.7	18.2	19.1	19.5	17.8	18.7	18.2	19.1	19.5
	3H	19.0	19.8	19.4	20.2	20.6	19.0	19.8	19.4	20.2	20.6
	4H	19.2	19.9	19.7	20.3	20.8	19.2	19.9	19.7	20.3	20.8
	6H	19.3	19.9	19.8	20.3	20.8	19.3	19.9	19.8	20.3	20.8
	8H	19.3	19.8	19.8	20.3	20.8	19.3	19.8	19.8	20.3	20.8
	12H	19.3	19.8	19.8	20.3	20.7	19.3	19.8	19.8	20.3	20.7
8H	4H	19.2	19.8	19.7	20.2	20.7	19.2	19.8	19.7	20.2	20.7
	6H	19.4	19.8	19.9	20.3	20.8	19.4	19.8	19.9	20.3	20.8
	8H	19.4	19.8	19.9	20.3	20.8	19.4	19.8	19.9	20.3	20.8
	12H	19.4	19.8	19.9	20.2	20.8	19.4	19.8	19.9	20.2	20.8
12H	4H	19.2	19.7	19.7	20.1	20.6	19.2	19.7	19.7	20.1	20.6
	6H	19.3	19.7	19.9	20.2	20.7	19.3	19.7	19.9	20.2	20.7
	8H	19.4	19.7	19.9	20.2	20.8	19.4	19.7	19.9	20.2	20.8

Maximum UGR = 20.8

POLAR GRAPH



Maximum Candela = 782.809 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.)