

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L8-927-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.
[ISSUE DATE] 2025-05-20
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] V2DR-L8-927-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 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	594
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	56
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	21307	21307	21307
55	16860	16860	16860
65	12603	12603	12603
75	6563	6563	6563
85	3976	3976	3976

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CANDELA TABULATION

	<u>0</u>
0.0	708.255
0.5	708.255
1.0	707.890
1.5	707.525
2.0	707.525
2.5	706.795
3.0	705.700
3.5	704.239
4.0	702.779
4.5	701.319
5.0	699.128
5.5	697.303
6.0	695.112
6.5	692.557
7.0	690.001
7.5	687.446
8.0	684.890
8.5	681.970
9.0	678.684
9.5	675.763
10.0	672.478
10.5	668.827
11.0	664.811
11.5	660.795
12.0	656.414
12.5	652.033
13.0	647.287
13.5	642.176
14.0	636.700
14.5	631.223
15.0	625.017
15.5	618.811
16.0	611.874
16.5	604.938
17.0	597.636
17.5	589.969
18.0	581.938
18.5	573.176
19.0	564.049
19.5	554.192
20.0	543.969
20.5	533.382
21.0	522.065
21.5	510.382
22.0	497.604
22.5	484.826
23.0	471.318
23.5	457.445
24.0	442.842
24.5	428.239
25.0	413.271
25.5	397.572
26.0	381.509
26.5	365.445

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CANDELA TABULATION - (Cont.)

27.0	349.491
27.5	333.464
28.0	317.291
28.5	301.191
29.0	284.726
29.5	268.151
30.0	251.723
30.5	235.550
31.0	219.596
31.5	204.189
32.0	189.367
32.5	175.348
33.0	162.351
33.5	150.303
34.0	139.096
34.5	128.837
35.0	119.527
35.5	110.984
36.0	103.245
36.5	96.308
37.0	90.138
37.5	84.626
38.0	79.624
38.5	75.170
39.0	71.264
39.5	67.832
40.0	64.765
40.5	62.100
41.0	59.727
41.5	57.610
42.0	55.711
42.5	54.032
43.0	52.499
43.5	51.148
44.0	49.870
44.5	48.702
45.0	47.606
45.5	46.548
46.0	45.562
46.5	44.576
47.0	43.664
47.5	42.751
48.0	41.838
48.5	40.962
49.0	40.086
49.5	39.210
50.0	38.370
50.5	37.567
51.0	36.727
51.5	35.924
52.0	35.157
52.5	34.354
53.0	33.587
53.5	32.821
54.0	32.054
54.5	31.287

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CANDELA TABULATION - (Cont.)

55.0	30.557
55.5	29.827
56.0	29.097
56.5	28.367
57.0	27.637
57.5	26.943
58.0	26.213
58.5	25.519
59.0	24.825
59.5	24.168
60.0	23.475
60.5	22.781
61.0	22.087
61.5	21.430
62.0	20.737
62.5	20.079
63.0	19.422
63.5	18.765
64.0	18.108
64.5	17.451
65.0	16.830
65.5	16.210
66.0	15.589
66.5	14.932
67.0	14.348
67.5	13.764
68.0	13.143
68.5	12.559
69.0	11.975
69.5	11.390
70.0	10.843
70.5	10.259
71.0	9.711
71.5	9.127
72.0	8.579
72.5	8.032
73.0	7.484
73.5	6.937
74.0	6.425
74.5	5.878
75.0	5.367
75.5	4.892
76.0	4.417
76.5	4.052
77.0	3.724
77.5	3.432
78.0	3.213
78.5	3.030
79.0	2.884
79.5	2.738
80.0	2.556
80.5	2.410
81.0	2.263
81.5	2.117
82.0	1.935
82.5	1.789

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CANDELA TABULATION - (Cont.)

83.0	1.679
83.5	1.533
84.0	1.387
84.5	1.241
85.0	1.095
85.5	0.986
86.0	0.840
86.5	0.730
87.0	0.584
87.5	0.475
88.0	0.365
88.5	0.256
89.0	0.146
89.5	0.110
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
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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
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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	239.55	N.A.	40.30
0-30	424.07	N.A.	71.40
0-40	505.26	N.A.	85.00
0-60	570.16	N.A.	95.90
0-80	593.03	N.A.	99.80
0-90	594.29	N.A.	100.00
10-90	528.41	N.A.	88.90
20-40	265.71	N.A.	44.70
20-50	303.22	N.A.	51.00
40-70	81.62	N.A.	13.70
60-80	22.87	N.A.	3.80
70-80	6.15	N.A.	1.00
80-90	1.26	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	594.29	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	65.88
10-20	173.67
20-30	184.52
30-40	81.19
40-50	37.51
50-60	27.39
60-70	16.73
70-80	6.15
80-90	1.26
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	111	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	83	79	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

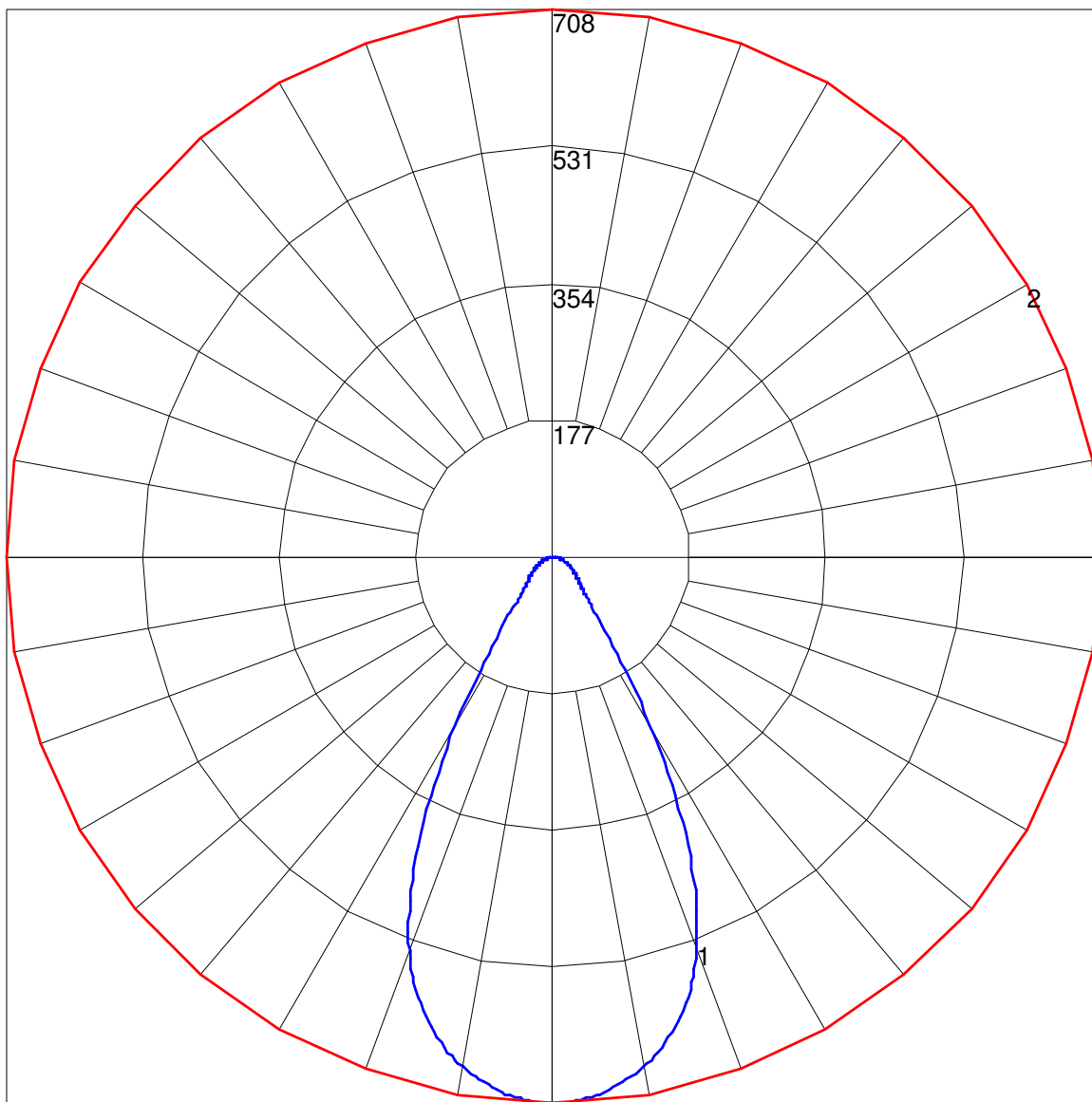
Reflectances

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	17.1	18.2	17.5	18.5	18.8	17.1	18.2	17.5	18.5	18.8
	3H	18.1	19.1	18.5	19.4	19.8	18.1	19.1	18.5	19.4	19.8
	4H	18.3	19.2	18.7	19.6	20.0	18.3	19.2	18.7	19.6	20.0
	6H	18.4	19.2	18.8	19.6	20.0	18.4	19.2	18.8	19.6	20.0
	8H	18.4	19.1	18.8	19.5	19.9	18.4	19.1	18.8	19.5	19.9
	12H	18.3	19.1	18.8	19.5	19.9	18.3	19.1	18.8	19.5	19.9
4H	2H	17.4	18.3	17.8	18.7	19.1	17.4	18.3	17.8	18.7	19.1
	3H	18.6	19.4	19.0	19.8	20.2	18.6	19.4	19.0	19.8	20.2
	4H	18.8	19.5	19.3	19.9	20.4	18.8	19.5	19.3	19.9	20.4
	6H	18.9	19.5	19.4	19.9	20.4	18.9	19.5	19.4	19.9	20.4
	8H	18.9	19.4	19.4	19.9	20.4	18.9	19.4	19.4	19.9	20.4
	12H	18.9	19.4	19.4	19.9	20.3	18.9	19.4	19.4	19.9	20.3
8H	4H	18.8	19.4	19.3	19.8	20.3	18.8	19.4	19.3	19.8	20.3
	6H	19.0	19.4	19.5	19.9	20.4	19.0	19.4	19.5	19.9	20.4
	8H	19.0	19.4	19.5	19.9	20.4	19.0	19.4	19.5	19.9	20.4
	12H	19.0	19.4	19.5	19.8	20.4	19.0	19.4	19.5	19.8	20.4
12H	4H	18.8	19.3	19.3	19.7	20.2	18.8	19.3	19.3	19.7	20.2
	6H	18.9	19.3	19.5	19.8	20.3	18.9	19.3	19.5	19.8	20.3
	8H	19.0	19.3	19.5	19.8	20.4	19.0	19.3	19.5	19.8	20.4

Maximum UGR = 20.4

POLAR GRAPH



Maximum Candela = 708.255 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.)