

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L8-927-DIM-UNV-RW-OF-WH_.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-L8-927-DIM-UNV-RW-OF-WH_
[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	606
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	57
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	21742	21742	21742
55	17205	17205	17205
65	12861	12861	12861
75	6696	6696	6696
85	4060	4060	4060

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CANDELA TABULATION

	<u>0</u>
0.0	722.710
0.5	722.710
1.0	722.337
1.5	721.964
2.0	721.964
2.5	721.219
3.0	720.102
3.5	718.612
4.0	717.122
4.5	715.631
5.0	713.396
5.5	711.534
6.0	709.298
6.5	706.691
7.0	704.083
7.5	701.475
8.0	698.868
8.5	695.887
9.0	692.535
9.5	689.554
10.0	686.202
10.5	682.476
11.0	678.378
11.5	674.281
12.0	669.810
12.5	665.340
13.0	660.497
13.5	655.281
14.0	649.694
14.5	644.106
15.0	637.773
15.5	631.440
16.0	624.361
16.5	617.283
17.0	609.833
17.5	602.010
18.0	593.814
18.5	584.873
19.0	575.560
19.5	565.502
20.0	555.071
20.5	544.267
21.0	532.719
21.5	520.798
22.0	507.759
22.5	494.721
23.0	480.937
23.5	466.781
24.0	451.880
24.5	436.979
25.0	421.705
25.5	405.686
26.0	389.295
26.5	372.903

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CANDELA TABULATION - (Cont.)

27.0	356.624
27.5	340.270
28.0	323.766
28.5	307.338
29.0	290.537
29.5	273.624
30.0	256.860
30.5	240.357
31.0	224.077
31.5	208.356
32.0	193.232
32.5	178.926
33.0	165.664
33.5	153.371
34.0	141.934
34.5	131.466
35.0	121.967
35.5	113.249
36.0	105.352
36.5	98.274
37.0	91.978
37.5	86.353
38.0	81.249
38.5	76.704
39.0	72.718
39.5	69.216
40.0	66.087
40.5	63.367
41.0	60.946
41.5	58.785
42.0	56.848
42.5	55.135
43.0	53.570
43.5	52.192
44.0	50.888
44.5	49.696
45.0	48.578
45.5	47.498
46.0	46.492
46.5	45.486
47.0	44.555
47.5	43.623
48.0	42.692
48.5	41.798
49.0	40.904
49.5	40.010
50.0	39.153
50.5	38.333
51.0	37.477
51.5	36.657
52.0	35.875
52.5	35.055
53.0	34.273
53.5	33.491
54.0	32.708
54.5	31.926

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CANDELA TABULATION - (Cont.)

55.0	31.181
55.5	30.436
56.0	29.691
56.5	28.946
57.0	28.201
57.5	27.493
58.0	26.748
58.5	26.040
59.0	25.332
59.5	24.662
60.0	23.954
60.5	23.246
61.0	22.538
61.5	21.868
62.0	21.160
62.5	20.489
63.0	19.819
63.5	19.148
64.0	18.478
64.5	17.807
65.0	17.174
65.5	16.540
66.0	15.907
66.5	15.237
67.0	14.640
67.5	14.044
68.0	13.411
68.5	12.815
69.0	12.219
69.5	11.623
70.0	11.064
70.5	10.468
71.0	9.909
71.5	9.313
72.0	8.754
72.5	8.196
73.0	7.637
73.5	7.078
74.0	6.557
74.5	5.998
75.0	5.476
75.5	4.992
76.0	4.508
76.5	4.135
77.0	3.800
77.5	3.502
78.0	3.278
78.5	3.092
79.0	2.943
79.5	2.794
80.0	2.608
80.5	2.459
81.0	2.310
81.5	2.161
82.0	1.974
82.5	1.825

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CANDELA TABULATION - (Cont.)

83.0	1.714
83.5	1.565
84.0	1.416
84.5	1.267
85.0	1.118
85.5	1.006
86.0	0.857
86.5	0.745
87.0	0.596
87.5	0.484
88.0	0.373
88.5	0.261
89.0	0.149
89.5	0.112
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
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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
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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	244.44	N.A.	40.30
0-30	432.73	N.A.	71.40
0-40	515.57	N.A.	85.00
0-60	581.79	N.A.	95.90
0-80	605.13	N.A.	99.80
0-90	606.42	N.A.	100.00
10-90	539.20	N.A.	88.90
20-40	271.13	N.A.	44.70
20-50	309.40	N.A.	51.00
40-70	83.29	N.A.	13.70
60-80	23.34	N.A.	3.80
70-80	6.27	N.A.	1.00
80-90	1.29	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	606.42	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	67.22
10-20	177.22
20-30	188.28
30-40	82.84
40-50	38.27
50-60	27.95
60-70	17.07
70-80	6.27
80-90	1.29
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	99	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	76	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

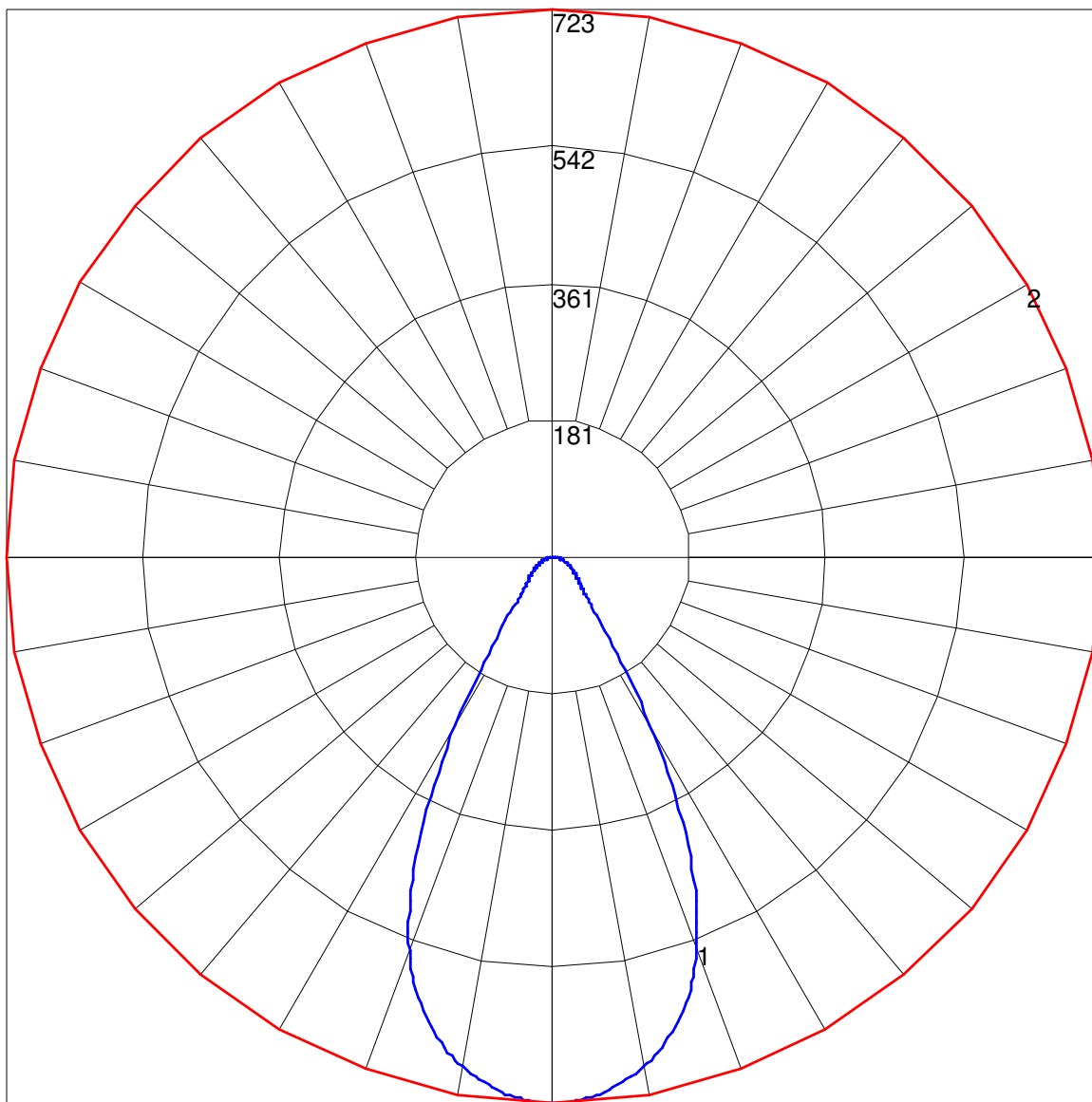
Reflectances

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	17.2	18.3	17.6	18.6	18.9	17.2	18.3	17.6	18.6	18.9
	3H	18.2	19.2	18.6	19.5	19.9	18.2	19.2	18.6	19.5	19.9
	4H	18.4	19.3	18.8	19.7	20.1	18.4	19.3	18.8	19.7	20.1
	6H	18.4	19.3	18.9	19.6	20.0	18.4	19.3	18.9	19.6	20.0
	8H	18.4	19.2	18.9	19.6	20.0	18.4	19.2	18.9	19.6	20.0
	12H	18.4	19.2	18.9	19.6	20.0	18.4	19.2	18.9	19.6	20.0
4H	2H	17.5	18.4	17.9	18.8	19.2	17.5	18.4	17.9	18.8	19.2
	3H	18.7	19.4	19.1	19.8	20.3	18.7	19.4	19.1	19.8	20.3
	4H	18.9	19.6	19.4	20.0	20.5	18.9	19.6	19.4	20.0	20.5
	6H	19.0	19.6	19.5	20.0	20.5	19.0	19.6	19.5	20.0	20.5
	8H	19.0	19.5	19.5	20.0	20.5	19.0	19.5	19.5	20.0	20.5
	12H	19.0	19.5	19.5	20.0	20.4	19.0	19.5	19.5	20.0	20.4
8H	4H	18.9	19.5	19.4	19.9	20.4	18.9	19.5	19.4	19.9	20.4
	6H	19.1	19.5	19.6	20.0	20.5	19.1	19.5	19.6	20.0	20.5
	8H	19.1	19.5	19.6	20.0	20.5	19.1	19.5	19.6	20.0	20.5
	12H	19.1	19.4	19.6	19.9	20.5	19.1	19.4	19.6	19.9	20.5
12H	4H	18.9	19.3	19.4	19.8	20.3	18.9	19.3	19.4	19.8	20.3
	6H	19.0	19.4	19.6	19.9	20.4	19.0	19.4	19.6	19.9	20.4
	8H	19.1	19.4	19.6	19.9	20.5	19.1	19.4	19.6	19.9	20.5

Maximum UGR = 20.5

POLAR GRAPH



Maximum Candela = 722.71 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.)