

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L8-827-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-L8-827-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	756
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	71
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	31193	31193	31193
55	27243	27243	27243
65	23272	23272	23272
75	18776	18776	18776
85	10516	10516	10516

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CANDELA TABULATION

	<u>0</u>
0.0	892.317
0.5	891.858
1.0	891.858
1.5	891.398
2.0	890.938
2.5	889.559
3.0	888.180
3.5	886.801
4.0	884.962
4.5	882.663
5.0	880.365
5.5	878.066
6.0	875.767
6.5	873.009
7.0	870.251
7.5	867.492
8.0	864.274
8.5	861.056
9.0	857.379
9.5	853.701
10.0	849.563
10.5	844.966
11.0	840.369
11.5	835.312
12.0	830.255
12.5	824.279
13.0	818.302
13.5	811.866
14.0	804.970
14.5	797.615
15.0	789.800
15.5	781.065
16.0	772.330
16.5	762.676
17.0	752.103
17.5	741.529
18.0	729.576
18.5	717.164
19.0	703.372
19.5	688.661
20.0	673.490
20.5	656.940
21.0	639.931
21.5	621.542
22.0	602.234
22.5	582.466
23.0	561.778
23.5	540.631
24.0	519.024
24.5	496.958
25.0	474.431
25.5	452.135
26.0	429.563
26.5	407.220

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CANDELA TABULATION - (Cont.)

27.0	385.200
27.5	363.639
28.0	342.538
28.5	321.942
29.0	301.990
29.5	282.544
30.0	264.293
30.5	247.054
31.0	230.780
31.5	215.609
32.0	201.404
32.5	188.210
33.0	176.119
33.5	165.040
34.0	154.972
34.5	145.777
35.0	137.410
35.5	129.825
36.0	122.975
36.5	116.861
37.0	111.344
37.5	106.425
38.0	102.012
38.5	98.012
39.0	94.427
39.5	91.209
40.0	88.266
40.5	85.646
41.0	83.255
41.5	81.049
42.0	79.026
42.5	77.141
43.0	75.440
43.5	73.877
44.0	72.406
44.5	71.027
45.0	69.694
45.5	68.452
46.0	67.257
46.5	66.108
47.0	65.004
47.5	63.901
48.0	62.844
48.5	61.786
49.0	60.729
49.5	59.718
50.0	58.752
50.5	57.787
51.0	56.775
51.5	55.856
52.0	54.891
52.5	53.971
53.0	53.052
53.5	52.132
54.0	51.213
54.5	50.293

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CANDELA TABULATION - (Cont.)

55.0	49.374
55.5	48.455
56.0	47.581
56.5	46.616
57.0	45.742
57.5	44.823
58.0	43.903
58.5	42.984
59.0	42.064
59.5	41.145
60.0	40.226
60.5	39.306
61.0	38.387
61.5	37.421
62.0	36.548
62.5	35.628
63.0	34.663
63.5	33.743
64.0	32.824
64.5	31.951
65.0	31.077
65.5	30.204
66.0	29.330
66.5	28.503
67.0	27.629
67.5	26.848
68.0	26.020
68.5	25.239
69.0	24.457
69.5	23.630
70.0	22.848
70.5	22.067
71.0	21.331
71.5	20.550
72.0	19.768
72.5	19.032
73.0	18.251
73.5	17.515
74.0	16.826
74.5	16.090
75.0	15.355
75.5	14.665
76.0	13.976
76.5	13.286
77.0	12.642
77.5	11.953
78.0	11.309
78.5	10.666
79.0	10.022
79.5	9.378
80.0	8.781
80.5	8.137
81.0	7.539
81.5	6.942
82.0	6.344
82.5	5.747

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CANDELA TABULATION - (Cont.)

83.0	5.195
83.5	4.597
84.0	4.046
84.5	3.448
85.0	2.896
85.5	2.299
86.0	1.701
86.5	1.287
87.0	0.919
87.5	0.552
88.0	0.368
88.5	0.276
89.0	0.184
89.5	0.138
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
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120.5	0.000
121.0	0.000
121.5	0.000
122.0	0.000
122.5	0.000
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123.5	0.000
124.0	0.000
124.5	0.000
125.0	0.000
125.5	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
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151.0	0.000
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152.0	0.000
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153.0	0.000
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154.5	0.000
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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	301.67	N.A.	39.90
0-30	514.31	N.A.	68.00
0-40	606.69	N.A.	80.20
0-60	705.43	N.A.	93.30
0-80	752.70	N.A.	99.50
0-90	756.34	N.A.	100.00
10-90	673.26	N.A.	89.00
20-40	305.01	N.A.	40.30
20-50	359.60	N.A.	47.50
40-70	129.65	N.A.	17.10
60-80	47.26	N.A.	6.20
70-80	16.37	N.A.	2.20
80-90	3.64	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	756.34	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	83.08
10-20	218.59
20-30	212.63
30-40	92.38
40-50	54.59
50-60	44.16
60-70	30.90
70-80	16.37
80-90	3.64
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	112	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	70
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	49	58	53	49	57	52	49	48

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UGR TABLE - CORRECTED

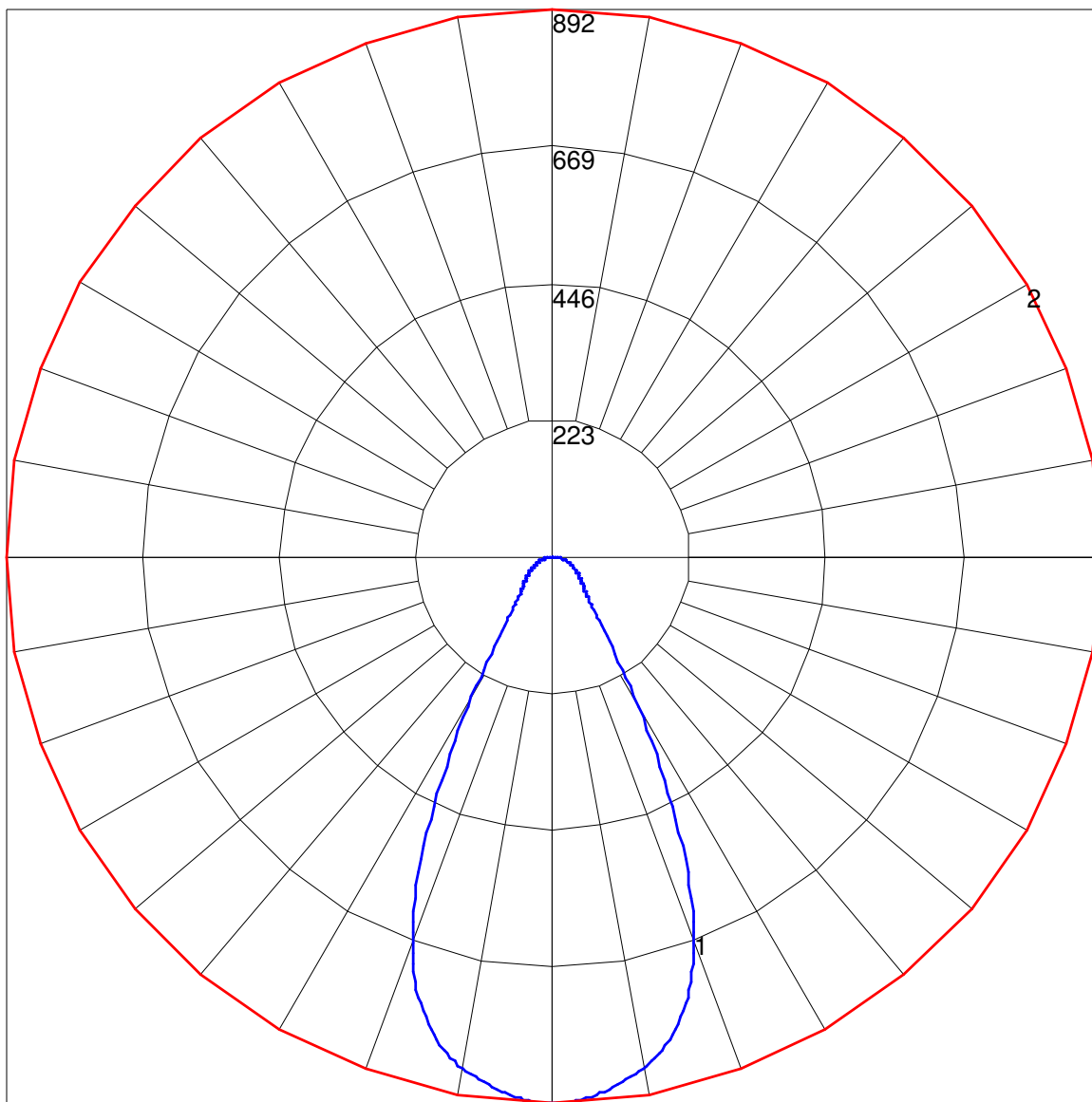
Reflectances

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	19.8	21.0	20.1	21.3	21.6	19.8	21.0	20.1	21.3	21.6
	3H	21.3	22.3	21.7	22.7	23.0	21.3	22.3	21.7	22.7	23.0
	4H	21.8	22.8	22.2	23.1	23.5	21.8	22.8	22.2	23.1	23.5
	6H	22.1	23.0	22.5	23.4	23.8	22.1	23.0	22.5	23.4	23.8
	8H	22.2	23.1	22.7	23.5	23.9	22.2	23.1	22.7	23.5	23.9
	12H	22.3	23.1	22.7	23.4	23.9	22.3	23.1	22.7	23.4	23.9
4H	2H	20.3	21.2	20.7	21.6	22.0	20.3	21.2	20.7	21.6	22.0
	3H	21.9	22.7	22.4	23.1	23.6	21.9	22.7	22.4	23.1	23.6
	4H	22.6	23.3	23.0	23.7	24.2	22.6	23.3	23.0	23.7	24.2
	6H	23.0	23.6	23.5	24.1	24.6	23.0	23.6	23.5	24.1	24.6
	8H	23.1	23.7	23.6	24.2	24.6	23.1	23.7	23.6	24.2	24.6
	12H	23.2	23.7	23.7	24.2	24.7	23.2	23.7	23.7	24.2	24.7
8H	4H	22.8	23.3	23.2	23.8	24.3	22.8	23.3	23.2	23.8	24.3
	6H	23.3	23.8	23.8	24.3	24.8	23.3	23.8	23.8	24.3	24.8
	8H	23.5	23.9	24.0	24.4	24.9	23.5	23.9	24.0	24.4	24.9
	12H	23.6	24.0	24.1	24.5	25.0	23.6	24.0	24.1	24.5	25.0
12H	4H	22.8	23.3	23.2	23.7	24.2	22.8	23.3	23.2	23.7	24.2
	6H	23.3	23.8	23.9	24.2	24.8	23.3	23.8	23.9	24.2	24.8
	8H	23.6	23.9	24.1	24.4	25.0	23.6	23.9	24.1	24.4	25.0

Maximum UGR = 25.0

POLAR GRAPH



Maximum Candela = 892.317 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.)