

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L14-927-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-L14-927-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	1071
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	62
Total Luminaire Watts	17.3
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	44169	44169	44169
55	38576	38576	38576
65	32953	32953	32953
75	26586	26586	26586
85	14892	14892	14892

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CANDELA TABULATION

	<u>0</u>
0.0	1263.526
0.5	1262.875
1.0	1262.875
1.5	1262.224
2.0	1261.573
2.5	1259.620
3.0	1257.667
3.5	1255.715
4.0	1253.111
4.5	1249.856
5.0	1246.601
5.5	1243.346
6.0	1240.091
6.5	1236.186
7.0	1232.280
7.5	1228.374
8.0	1223.817
8.5	1219.260
9.0	1214.053
9.5	1208.845
10.0	1202.986
10.5	1196.477
11.0	1189.967
11.5	1182.806
12.0	1175.646
12.5	1167.183
13.0	1158.721
13.5	1149.607
14.0	1139.842
14.5	1129.427
15.0	1118.361
15.5	1105.992
16.0	1093.624
16.5	1079.954
17.0	1064.981
17.5	1050.009
18.0	1033.084
18.5	1015.508
19.0	995.979
19.5	975.148
20.0	953.666
20.5	930.231
21.0	906.145
21.5	880.107
22.0	852.766
22.5	824.775
23.0	795.481
23.5	765.537
24.0	734.941
24.5	703.695
25.0	671.798
25.5	640.226
26.0	608.263
26.5	576.626

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CANDELA TABULATION - (Cont.)

27.0	545.445
27.5	514.915
28.0	485.035
28.5	455.872
29.0	427.620
29.5	400.084
30.0	374.241
30.5	349.829
31.0	326.785
31.5	305.303
32.0	285.188
32.5	266.506
33.0	249.385
33.5	233.697
34.0	219.441
34.5	206.422
35.0	194.574
35.5	183.833
36.0	174.134
36.5	165.476
37.0	157.664
37.5	150.699
38.0	144.449
38.5	138.786
39.0	133.709
39.5	129.152
40.0	124.986
40.5	121.275
41.0	117.890
41.5	114.765
42.0	111.901
42.5	109.232
43.0	106.824
43.5	104.610
44.0	102.527
44.5	100.574
45.0	98.687
45.5	96.929
46.0	95.236
46.5	93.609
47.0	92.047
47.5	90.484
48.0	88.987
48.5	87.490
49.0	85.993
49.5	84.561
50.0	83.194
50.5	81.826
51.0	80.394
51.5	79.092
52.0	77.725
52.5	76.423
53.0	75.122
53.5	73.820
54.0	72.518
54.5	71.216

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CANDELA TABULATION - (Cont.)

55.0	69.914
55.5	68.612
56.0	67.375
56.5	66.008
57.0	64.771
57.5	63.469
58.0	62.167
58.5	60.865
59.0	59.563
59.5	58.262
60.0	56.960
60.5	55.658
61.0	54.356
61.5	52.989
62.0	51.752
62.5	50.450
63.0	49.083
63.5	47.781
64.0	46.479
64.5	45.242
65.0	44.005
65.5	42.769
66.0	41.532
66.5	40.360
67.0	39.123
67.5	38.016
68.0	36.845
68.5	35.738
69.0	34.631
69.5	33.460
70.0	32.353
70.5	31.246
71.0	30.205
71.5	29.098
72.0	27.992
72.5	26.950
73.0	25.843
73.5	24.802
74.0	23.825
74.5	22.784
75.0	21.742
75.5	20.766
76.0	19.789
76.5	18.813
77.0	17.902
77.5	16.925
78.0	16.014
78.5	15.102
79.0	14.191
79.5	13.280
80.0	12.433
80.5	11.522
81.0	10.676
81.5	9.830
82.0	8.983
82.5	8.137

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CANDELA TABULATION - (Cont.)

83.0	7.356
83.5	6.510
84.0	5.729
84.5	4.882
85.0	4.101
85.5	3.255
86.0	2.409
86.5	1.823
87.0	1.302
87.5	0.781
88.0	0.521
88.5	0.391
89.0	0.260
89.5	0.195
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
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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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130.0	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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157.5	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	427.17	N.A.	39.90
0-30	728.26	N.A.	68.00
0-40	859.07	N.A.	80.20
0-60	998.90	N.A.	93.30
0-80	1065.82	N.A.	99.50
0-90	1070.98	N.A.	100.00
10-90	953.34	N.A.	89.00
20-40	431.90	N.A.	40.30
20-50	509.20	N.A.	47.50
40-70	183.58	N.A.	17.10
60-80	66.93	N.A.	6.20
70-80	23.17	N.A.	2.20
80-90	5.16	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	1070.98	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	117.64
10-20	309.53
20-30	301.09
30-40	130.81
40-50	77.30
50-60	62.53
60-70	43.75
70-80	23.17
80-90	5.16
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	97	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	94	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	59	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

X=2H	Y=2H	21.0	22.1	21.3	22.5	22.8	21.0	22.1	21.3	22.5	22.8
	3H	22.5	23.5	22.9	23.8	24.2	22.5	23.5	22.9	23.8	24.2
	4H	23.0	24.0	23.4	24.3	24.7	23.0	24.0	23.4	24.3	24.7
	6H	23.3	24.2	23.7	24.6	25.0	23.3	24.2	23.7	24.6	25.0
	8H	23.4	24.3	23.8	24.7	25.1	23.4	24.3	23.8	24.7	25.1
	12H	23.4	24.2	23.9	24.6	25.1	23.4	24.2	23.9	24.6	25.1

UGR Viewed Endwise

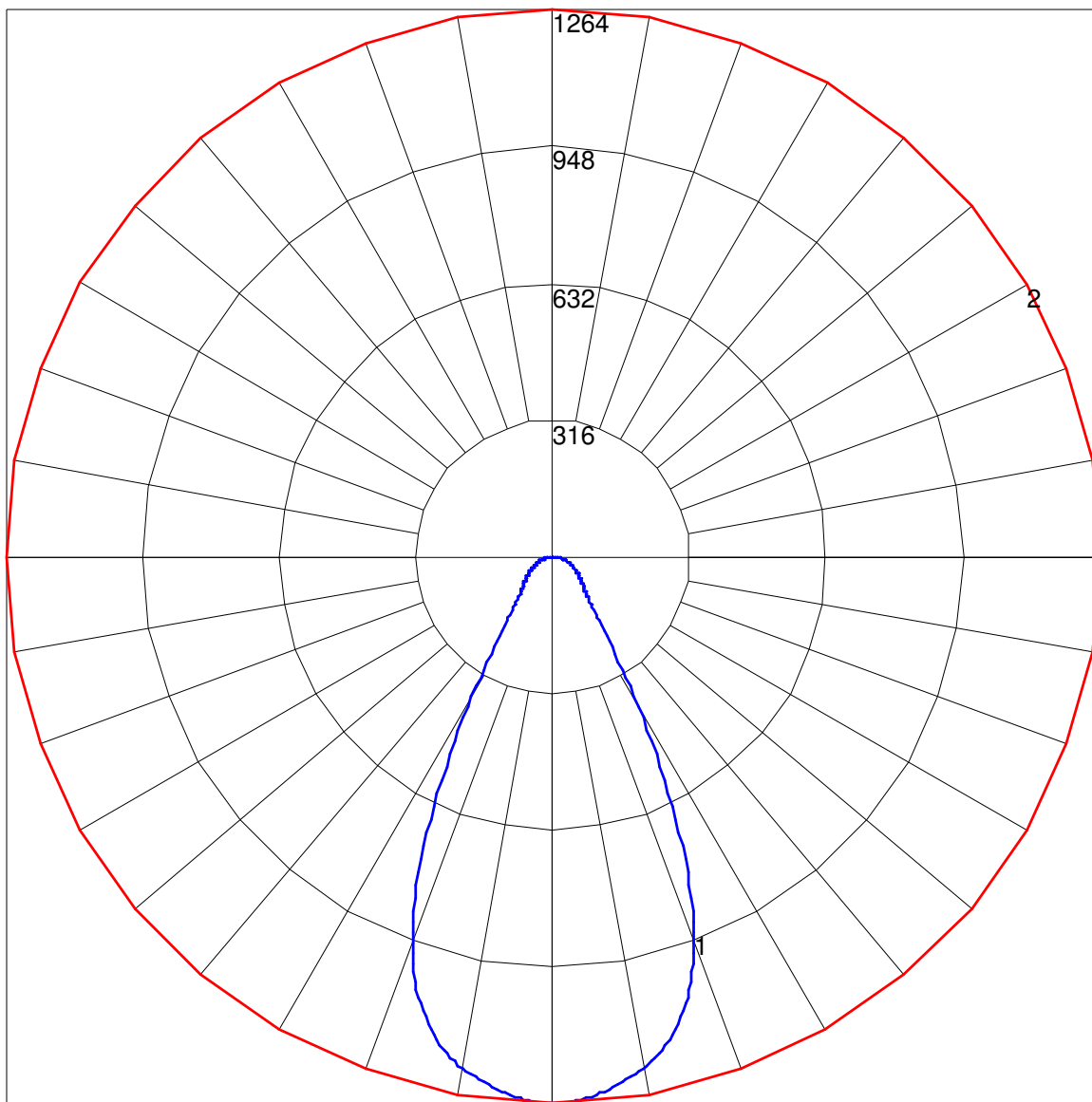
4H	2H	21.5	22.4	21.9	22.8	23.2	21.5	22.4	21.9	22.8	23.2
	3H	23.1	23.9	23.5	24.3	24.7	23.1	23.9	23.5	24.3	24.7
	4H	23.8	24.5	24.2	24.9	25.3	23.8	24.5	24.2	24.9	25.3
	6H	24.2	24.8	24.7	25.3	25.8	24.2	24.8	24.7	25.3	25.8
	8H	24.3	24.9	24.8	25.4	25.8	24.3	24.9	24.8	25.4	25.8
	12H	24.4	24.9	24.9	25.4	25.9	24.4	24.9	24.9	25.4	25.9

8H	4H	24.0	24.5	24.4	25.0	25.5	24.0	24.5	24.4	25.0	25.5
	6H	24.5	25.0	25.0	25.5	26.0	24.5	25.0	25.0	25.5	26.0
	8H	24.7	25.1	25.2	25.6	26.1	24.7	25.1	25.2	25.6	26.1
	12H	24.8	25.2	25.3	25.7	26.2	24.8	25.2	25.3	25.7	26.2

12H	4H	23.9	24.5	24.4	24.9	25.4	23.9	24.5	24.4	24.9	25.4
	6H	24.5	25.0	25.1	25.4	26.0	24.5	25.0	25.1	25.4	26.0
	8H	24.8	25.1	25.3	25.6	26.2	24.8	25.1	25.3	25.6	26.2

Maximum UGR = 26.2

POLAR GRAPH



Maximum Candela = 1263.526 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.)