

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L18-927-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-L18-927-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	1372
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	57
Total Luminaire Watts	23.9
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	56583	56583	56583
55	49418	49418	49418
65	42215	42215	42215
75	34058	34058	34058
85	19078	19078	19078

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CANDELA TABULATION

	<u>0</u>
0.0	1618.641
0.5	1617.807
1.0	1617.807
1.5	1616.973
2.0	1616.139
2.5	1613.637
3.0	1611.135
3.5	1608.634
4.0	1605.298
4.5	1601.128
5.0	1596.959
5.5	1592.789
6.0	1588.620
6.5	1583.616
7.0	1578.612
7.5	1573.609
8.0	1567.772
8.5	1561.934
9.0	1555.263
9.5	1548.591
10.0	1541.086
10.5	1532.747
11.0	1524.408
11.5	1515.234
12.0	1506.061
12.5	1495.220
13.0	1484.379
13.5	1472.705
14.0	1460.196
14.5	1446.853
15.0	1432.676
15.5	1416.832
16.0	1400.987
16.5	1383.475
17.0	1364.295
17.5	1345.115
18.0	1323.433
18.5	1300.917
19.0	1275.899
19.5	1249.214
20.0	1221.694
20.5	1191.673
21.0	1160.818
21.5	1127.461
22.0	1092.437
22.5	1056.578
23.0	1019.051
23.5	980.691
24.0	941.497
24.5	901.469
25.0	860.606
25.5	820.161
26.0	779.216
26.5	738.687

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CANDELA TABULATION - (Cont.)

27.0	698.742
27.5	659.632
28.0	621.355
28.5	583.995
29.0	547.803
29.5	512.528
30.0	479.421
30.5	448.149
31.0	418.628
31.5	391.109
32.0	365.341
32.5	341.407
33.0	319.475
33.5	299.378
34.0	281.115
34.5	264.436
35.0	249.259
35.5	235.499
36.0	223.074
36.5	211.983
37.0	201.976
37.5	193.053
38.0	185.047
38.5	177.792
39.0	171.287
39.5	165.450
40.0	160.113
40.5	155.359
41.0	151.023
41.5	147.020
42.0	143.351
42.5	139.932
43.0	136.846
43.5	134.011
44.0	131.343
44.5	128.841
45.0	126.422
45.5	124.171
46.0	122.003
46.5	119.918
47.0	117.916
47.5	115.915
48.0	113.997
48.5	112.079
49.0	110.161
49.5	108.326
50.0	106.575
50.5	104.824
51.0	102.989
51.5	101.321
52.0	99.570
52.5	97.902
53.0	96.234
53.5	94.567
54.0	92.899
54.5	91.231

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CANDELA TABULATION - (Cont.)

55.0	89.563
55.5	87.895
56.0	86.311
56.5	84.560
57.0	82.975
57.5	81.307
58.0	79.639
58.5	77.972
59.0	76.304
59.5	74.636
60.0	72.968
60.5	71.300
61.0	69.632
61.5	67.881
62.0	66.297
62.5	64.629
63.0	62.878
63.5	61.210
64.0	59.542
64.5	57.958
65.0	56.373
65.5	54.789
66.0	53.204
66.5	51.703
67.0	50.119
67.5	48.701
68.0	47.200
68.5	45.782
69.0	44.365
69.5	42.864
70.0	41.446
70.5	40.028
71.0	38.694
71.5	37.276
72.0	35.859
72.5	34.524
73.0	33.107
73.5	31.772
74.0	30.522
74.5	29.187
75.0	27.853
75.5	26.602
76.0	25.351
76.5	24.100
77.0	22.933
77.5	21.682
78.0	20.514
78.5	19.347
79.0	18.179
79.5	17.012
80.0	15.928
80.5	14.760
81.0	13.676
81.5	12.592
82.0	11.508
82.5	10.424

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CANDELA TABULATION - (Cont.)

83.0	9.423
83.5	8.339
84.0	7.339
84.5	6.254
85.0	5.254
85.5	4.170
86.0	3.086
86.5	2.335
87.0	1.668
87.5	1.001
88.0	0.667
88.5	0.500
89.0	0.334
89.5	0.250
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
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
133.0	0.000
133.5	0.000
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
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	547.23	N.A.	39.90
0-30	932.94	N.A.	68.00
0-40	1100.51	N.A.	80.20
0-60	1279.64	N.A.	93.30
0-80	1365.37	N.A.	99.50
0-90	1371.98	N.A.	100.00
10-90	1221.28	N.A.	89.00
20-40	553.29	N.A.	40.30
20-50	652.31	N.A.	47.50
40-70	235.17	N.A.	17.10
60-80	85.74	N.A.	6.20
70-80	29.69	N.A.	2.20
80-90	6.61	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	1371.98	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	150.70
10-20	396.52
20-30	385.71
30-40	167.58
40-50	99.02
50-60	80.10
60-70	56.05
70-80	29.69
80-90	6.61
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

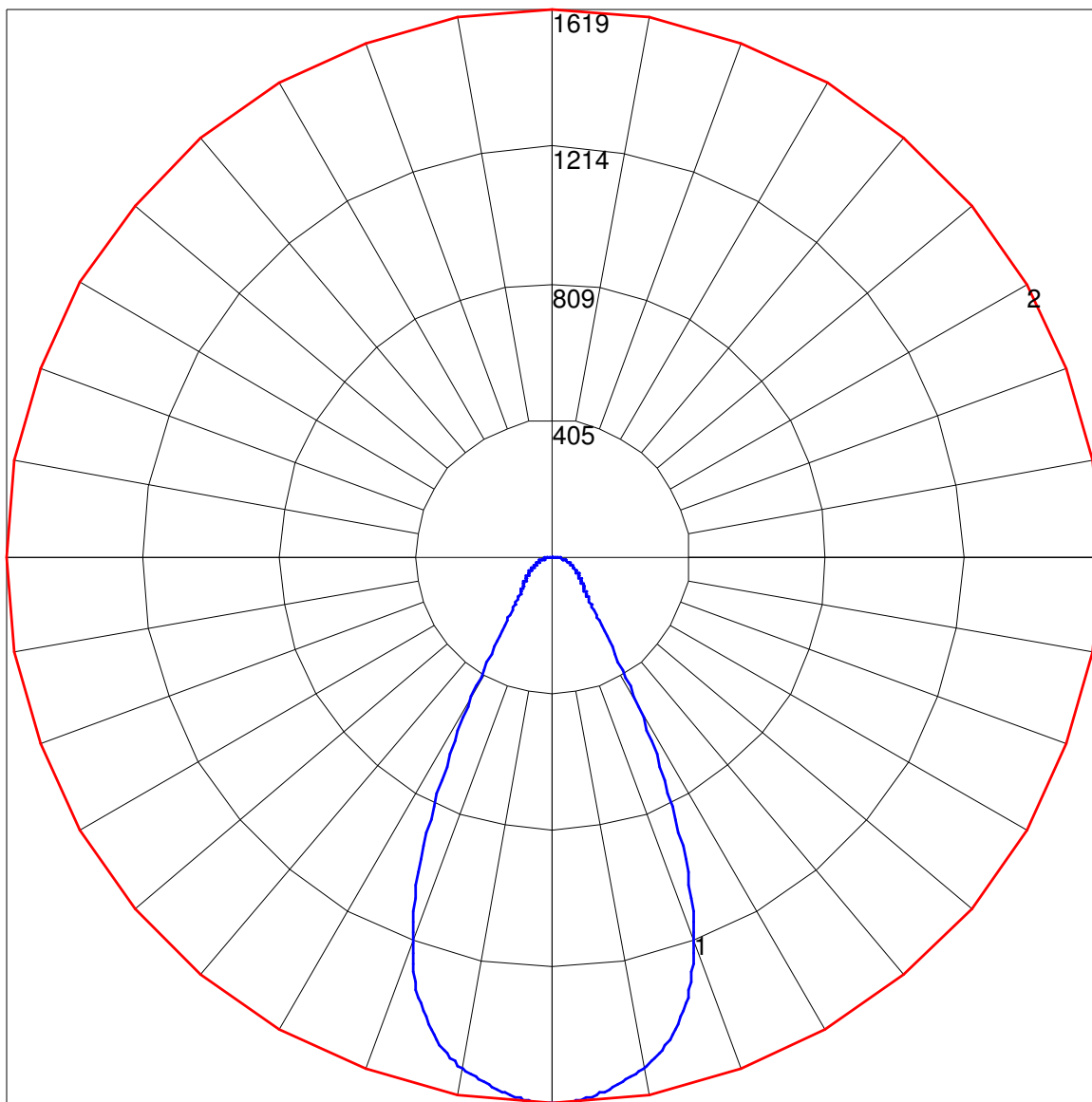
X=2H	Y=2H	21.8	22.9	22.1	23.3	23.6	21.8	22.9	22.1	23.3	23.6
	3H	23.3	24.3	23.7	24.6	25.0	23.3	24.3	23.7	24.6	25.0
	4H	23.8	24.8	24.2	25.1	25.5	23.8	24.8	24.2	25.1	25.5
	6H	24.1	25.0	24.5	25.4	25.8	24.1	25.0	24.5	25.4	25.8
	8H	24.2	25.1	24.6	25.5	25.9	24.2	25.1	24.6	25.5	25.9
	12H	24.2	25.1	24.7	25.4	25.9	24.2	25.1	24.7	25.4	25.9

UGR Viewed Endwise

4H	2H	22.3	23.2	22.7	23.6	24.0	22.3	23.2	22.7	23.6	24.0
	3H	23.9	24.7	24.3	25.1	25.5	23.9	24.7	24.3	25.1	25.5
	4H	24.6	25.3	25.0	25.7	26.2	24.6	25.3	25.0	25.7	26.2
	6H	25.0	25.6	25.5	26.1	26.6	25.0	25.6	25.5	26.1	26.6
	8H	25.1	25.7	25.6	26.2	26.6	25.1	25.7	25.6	26.2	26.6
	12H	25.2	25.7	25.7	26.2	26.7	25.2	25.7	25.7	26.2	26.7
8H	4H	24.8	25.3	25.2	25.8	26.3	24.8	25.3	25.2	25.8	26.3
	6H	25.3	25.8	25.8	26.3	26.8	25.3	25.8	25.8	26.3	26.8
	8H	25.5	25.9	26.0	26.4	26.9	25.5	25.9	26.0	26.4	26.9
	12H	25.6	26.0	26.1	26.5	27.0	25.6	26.0	26.1	26.5	27.0
12H	4H	24.7	25.3	25.2	25.7	26.2	24.7	25.3	25.2	25.7	26.2
	6H	25.3	25.8	25.9	26.2	26.8	25.3	25.8	25.9	26.2	26.8
	8H	25.6	25.9	26.1	26.4	27.0	25.6	25.9	26.1	26.4	27.0

Maximum UGR = 27.0

POLAR GRAPH



Maximum Candela = 1618.641 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.)