

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L14-950-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-L14-950-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	1240
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	72
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	51143	51143	51143
55	44667	44667	44667
65	38157	38157	38157
75	30784	30784	30784
85	17245	17245	17245

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CANDELA TABULATION

	<u>0</u>
0.0	1463.030
0.5	1462.276
1.0	1462.276
1.5	1461.523
2.0	1460.769
2.5	1458.508
3.0	1456.246
3.5	1453.985
4.0	1450.970
4.5	1447.201
5.0	1443.433
5.5	1439.664
6.0	1435.895
6.5	1431.373
7.0	1426.850
7.5	1422.328
8.0	1417.051
8.5	1411.775
9.0	1405.745
9.5	1399.715
10.0	1392.931
10.5	1385.394
11.0	1377.856
11.5	1369.565
12.0	1361.274
12.5	1351.475
13.0	1341.676
13.5	1331.124
14.0	1319.817
14.5	1307.757
15.0	1294.944
15.5	1280.622
16.0	1266.301
16.5	1250.472
17.0	1233.136
17.5	1215.800
18.0	1196.202
18.5	1175.851
19.0	1153.239
19.5	1129.119
20.0	1104.245
20.5	1077.110
21.0	1049.221
21.5	1019.071
22.0	987.413
22.5	955.002
23.0	921.083
23.5	886.411
24.0	850.985
24.5	814.804
25.0	777.871
25.5	741.314
26.0	704.305
26.5	667.672

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CANDELA TABULATION - (Cont.)

27.0	631.568
27.5	596.217
28.0	561.620
28.5	527.852
29.0	495.139
29.5	463.255
30.0	433.331
30.5	405.066
31.0	378.383
31.5	353.509
32.0	330.218
32.5	308.586
33.0	288.762
33.5	270.596
34.0	254.089
34.5	239.014
35.0	225.296
35.5	212.859
36.0	201.628
36.5	191.603
37.0	182.558
37.5	174.493
38.0	167.257
38.5	160.700
39.0	154.820
39.5	149.544
40.0	144.720
40.5	140.424
41.0	136.504
41.5	132.886
42.0	129.570
42.5	126.479
43.0	123.690
43.5	121.128
44.0	118.716
44.5	116.454
45.0	114.269
45.5	112.233
46.0	110.274
46.5	108.389
47.0	106.580
47.5	104.771
48.0	103.038
48.5	101.304
49.0	99.570
49.5	97.912
50.0	96.329
50.5	94.746
51.0	93.088
51.5	91.581
52.0	89.998
52.5	88.490
53.0	86.983
53.5	85.475
54.0	83.968
54.5	82.460

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CANDELA TABULATION - (Cont.)

55.0	80.953
55.5	79.445
56.0	78.013
56.5	76.430
57.0	74.998
57.5	73.491
58.0	71.983
58.5	70.476
59.0	68.968
59.5	67.461
60.0	65.953
60.5	64.446
61.0	62.938
61.5	61.355
62.0	59.923
62.5	58.416
63.0	56.833
63.5	55.325
64.0	53.818
64.5	52.386
65.0	50.954
65.5	49.521
66.0	48.089
66.5	46.733
67.0	45.300
67.5	44.019
68.0	42.662
68.5	41.381
69.0	40.100
69.5	38.743
70.0	37.461
70.5	36.180
71.0	34.974
71.5	33.693
72.0	32.411
72.5	31.205
73.0	29.924
73.5	28.718
74.0	27.587
74.5	26.381
75.0	25.175
75.5	24.045
76.0	22.914
76.5	21.783
77.0	20.728
77.5	19.598
78.0	18.542
78.5	17.487
79.0	16.432
79.5	15.377
80.0	14.397
80.5	13.341
81.0	12.362
81.5	11.382
82.0	10.402
82.5	9.422

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CANDELA TABULATION - (Cont.)

83.0	8.517
83.5	7.538
84.0	6.633
84.5	5.653
85.0	4.749
85.5	3.769
86.0	2.789
86.5	2.111
87.0	1.508
87.5	0.905
88.0	0.603
88.5	0.452
89.0	0.302
89.5	0.226
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
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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
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148.5	0.000
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150.0	0.000
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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	494.62	N.A.	39.90
0-30	843.25	N.A.	68.00
0-40	994.71	N.A.	80.20
0-60	1156.62	N.A.	93.30
0-80	1234.11	N.A.	99.50
0-90	1240.08	N.A.	100.00
10-90	1103.87	N.A.	89.00
20-40	500.10	N.A.	40.30
20-50	589.60	N.A.	47.50
40-70	212.56	N.A.	17.10
60-80	77.49	N.A.	6.20
70-80	26.83	N.A.	2.20
80-90	5.97	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	1240.08	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	136.21
10-20	358.40
20-30	348.63
30-40	151.47
40-50	89.50
50-60	72.40
60-70	50.66
70-80	26.83
80-90	5.97
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	21.5	22.6	21.8	23.0	23.3	21.5	22.6	21.8	23.0	23.3
	3H	23.0	24.0	23.4	24.3	24.7	23.0	24.0	23.4	24.3	24.7
	4H	23.5	24.5	23.9	24.8	25.2	23.5	24.5	23.9	24.8	25.2
	6H	23.8	24.7	24.2	25.1	25.5	23.8	24.7	24.2	25.1	25.5
	8H	23.9	24.8	24.3	25.2	25.6	23.9	24.8	24.3	25.2	25.6
	12H	23.9	24.8	24.4	25.1	25.6	23.9	24.8	24.4	25.1	25.6

UGR Viewed Endwise

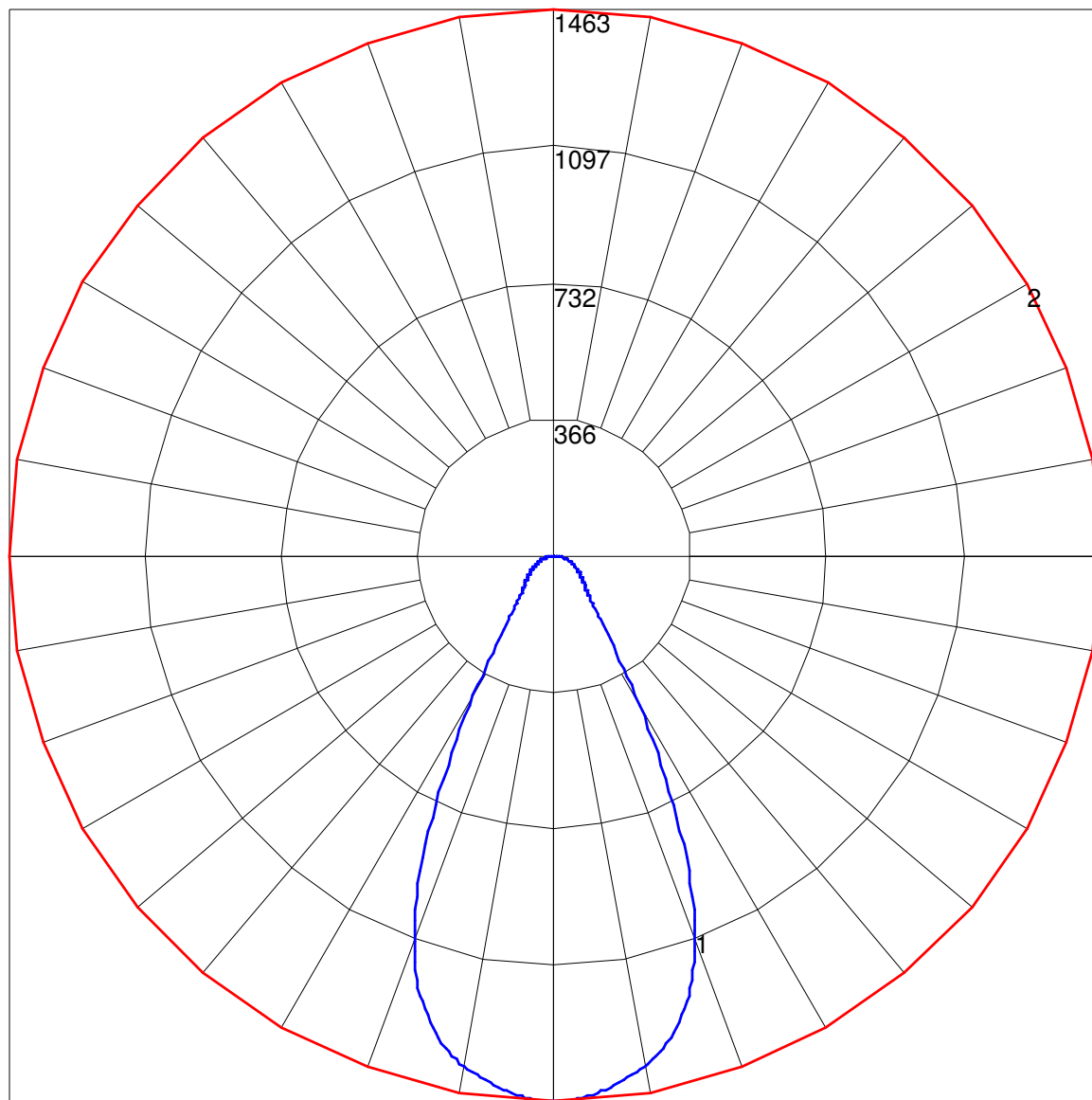
4H	2H	22.0	22.9	22.4	23.3	23.7	22.0	22.9	22.4	23.3	23.7
	3H	23.6	24.4	24.0	24.8	25.3	23.6	24.4	24.0	24.8	25.3
	4H	24.3	25.0	24.7	25.4	25.9	24.3	25.0	24.7	25.4	25.9
	6H	24.7	25.3	25.2	25.8	26.3	24.7	25.3	25.2	25.8	26.3
	8H	24.8	25.4	25.3	25.9	26.3	24.8	25.4	25.3	25.9	26.3
	12H	24.9	25.4	25.4	25.9	26.4	24.9	25.4	25.4	25.9	26.4

8H	4H	24.5	25.0	24.9	25.5	26.0	24.5	25.0	24.9	25.5	26.0
	6H	25.0	25.5	25.5	26.0	26.5	25.0	25.5	25.5	26.0	26.5
	8H	25.2	25.6	25.7	26.1	26.6	25.2	25.6	25.7	26.1	26.6
	12H	25.3	25.7	25.8	26.2	26.7	25.3	25.7	25.8	26.2	26.7

12H	4H	24.4	25.0	24.9	25.4	25.9	24.4	25.0	24.9	25.4	25.9
	6H	25.0	25.5	25.6	25.9	26.5	25.0	25.5	25.6	25.9	26.5
	8H	25.3	25.6	25.8	26.1	26.7	25.3	25.6	25.8	26.1	26.7

Maximum UGR = 26.7

POLAR GRAPH



Maximum Candela = 1463.03 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.)