

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L5-950-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-L5-950-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	444
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	66
Total Luminaire Watts	6.7
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	18330	18330	18330
55	16009	16009	16009
65	13676	13676	13676
75	11033	11033	11033
85	6180	6180	6180

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CANDELA TABULATION

	<u>0</u>
0.0	524.365
0.5	524.095
1.0	524.095
1.5	523.825
2.0	523.555
2.5	522.744
3.0	521.934
3.5	521.123
4.0	520.043
4.5	518.692
5.0	517.341
5.5	515.990
6.0	514.640
6.5	513.019
7.0	511.398
7.5	509.777
8.0	507.886
8.5	505.995
9.0	503.833
9.5	501.672
10.0	499.241
10.5	496.539
11.0	493.838
11.5	490.866
12.0	487.895
12.5	484.383
13.0	480.871
13.5	477.088
14.0	473.036
14.5	468.714
15.0	464.121
15.5	458.988
16.0	453.855
16.5	448.182
17.0	441.969
17.5	435.755
18.0	428.731
18.5	421.437
19.0	413.333
19.5	404.688
20.0	395.773
20.5	386.047
21.0	376.052
21.5	365.246
22.0	353.899
22.5	342.283
23.0	330.126
23.5	317.699
24.0	305.002
24.5	292.034
25.0	278.797
25.5	265.694
26.0	252.430
26.5	239.301

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PHOTOMETRIC FILENAME : V2DR-L5-950-DIM-UNV-LW-OF_.IES

CANDELA TABULATION - (Cont.)

27.0	226.360
27.5	213.690
28.0	201.290
28.5	189.187
29.0	177.463
29.5	166.035
30.0	155.310
30.5	145.180
31.0	135.616
31.5	126.701
32.0	118.354
32.5	110.600
33.0	103.495
33.5	96.985
34.0	91.068
34.5	85.665
35.0	80.748
35.5	76.291
36.0	72.266
36.5	68.673
37.0	65.431
37.5	62.540
38.0	59.947
38.5	57.596
39.0	55.489
39.5	53.598
40.0	51.869
40.5	50.329
41.0	48.925
41.5	47.628
42.0	46.439
42.5	45.332
43.0	44.332
43.5	43.413
44.0	42.549
44.5	41.738
45.0	40.955
45.5	40.226
46.0	39.523
46.5	38.848
47.0	38.199
47.5	37.551
48.0	36.930
48.5	36.308
49.0	35.687
49.5	35.093
50.0	34.525
50.5	33.958
51.0	33.364
51.5	32.823
52.0	32.256
52.5	31.716
53.0	31.176
53.5	30.635
54.0	30.095
54.5	29.555

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CANDELA TABULATION - (Cont.)

55.0	29.014
55.5	28.474
56.0	27.961
56.5	27.393
57.0	26.880
57.5	26.340
58.0	25.800
58.5	25.259
59.0	24.719
59.5	24.179
60.0	23.638
60.5	23.098
61.0	22.558
61.5	21.990
62.0	21.477
62.5	20.937
63.0	20.369
63.5	19.829
64.0	19.289
64.5	18.776
65.0	18.262
65.5	17.749
66.0	17.236
66.5	16.749
67.0	16.236
67.5	15.777
68.0	15.291
68.5	14.831
69.0	14.372
69.5	13.886
70.0	13.427
70.5	12.967
71.0	12.535
71.5	12.076
72.0	11.617
72.5	11.184
73.0	10.725
73.5	10.293
74.0	9.888
74.5	9.455
75.0	9.023
75.5	8.618
76.0	8.213
76.5	7.807
77.0	7.429
77.5	7.024
78.0	6.646
78.5	6.268
79.0	5.889
79.5	5.511
80.0	5.160
80.5	4.782
81.0	4.430
81.5	4.079
82.0	3.728
82.5	3.377

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CANDELA TABULATION - (Cont.)

83.0	3.053
83.5	2.702
84.0	2.377
84.5	2.026
85.0	1.702
85.5	1.351
86.0	1.000
86.5	0.756
87.0	0.540
87.5	0.324
88.0	0.216
88.5	0.162
89.0	0.108
89.5	0.081
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
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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
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125.5	0.000
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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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V2DR-L5-950-DIM-UNV-LW-OF_.IES

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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145.0	0.000
145.5	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
155.0	0.000
155.5	0.000
156.0	0.000
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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	177.28	N.A.	39.90
0-30	302.23	N.A.	68.00
0-40	356.52	N.A.	80.20
0-60	414.54	N.A.	93.30
0-80	442.32	N.A.	99.50
0-90	444.46	N.A.	100.00
10-90	395.64	N.A.	89.00
20-40	179.24	N.A.	40.30
20-50	211.32	N.A.	47.50
40-70	76.19	N.A.	17.10
60-80	27.77	N.A.	6.20
70-80	9.62	N.A.	2.20
80-90	2.14	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	444.46	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	48.82
10-20	128.46
20-30	124.95
30-40	54.29
40-50	32.08
50-60	25.95
60-70	18.16
70-80	9.62
80-90	2.14
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	109	106	104	110	107	105	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	90	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	71
5	90	80	74	69	88	79	73	69	78	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	76	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	59	53	50	58	53	49	57	52	49	48

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UGR TABLE - CORRECTED

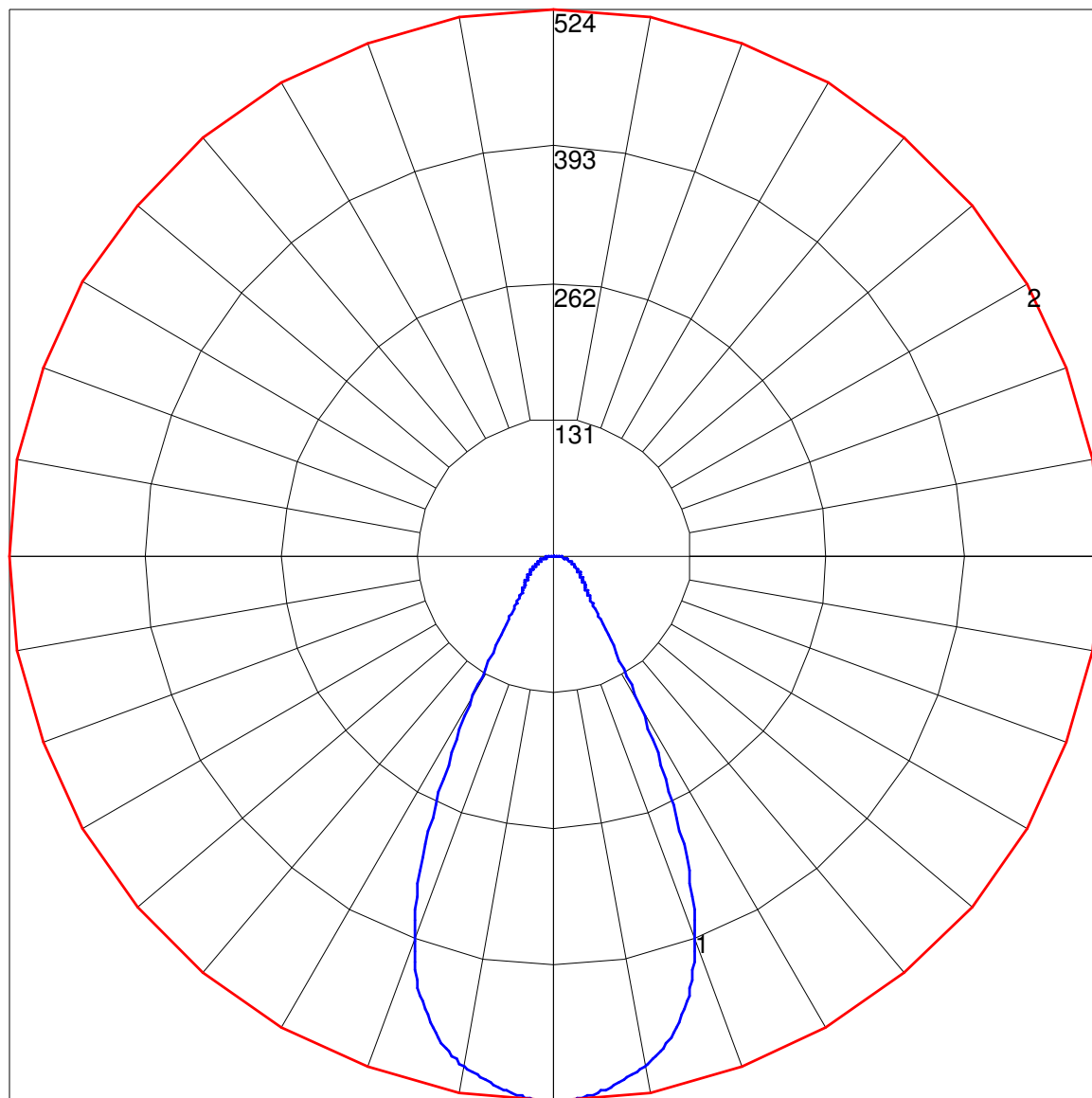
Reflectances

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	17.9	19.0	18.2	19.4	19.7	17.9	19.0	18.2	19.4	19.7
	3H	19.4	20.4	19.8	20.7	21.1	19.4	20.4	19.8	20.7	21.1
	4H	19.9	20.9	20.3	21.2	21.6	19.9	20.9	20.3	21.2	21.6
	6H	20.2	21.1	20.6	21.5	21.9	20.2	21.1	20.6	21.5	21.9
	8H	20.3	21.2	20.7	21.6	22.0	20.3	21.2	20.7	21.6	22.0
	12H	20.3	21.2	20.8	21.5	22.0	20.3	21.2	20.8	21.5	22.0
4H	2H	18.4	19.3	18.8	19.7	20.1	18.4	19.3	18.8	19.7	20.1
	3H	20.0	20.8	20.4	21.2	21.7	20.0	20.8	20.4	21.2	21.7
	4H	20.7	21.4	21.1	21.8	22.3	20.7	21.4	21.1	21.8	22.3
	6H	21.1	21.7	21.6	22.2	22.7	21.1	21.7	21.6	22.2	22.7
	8H	21.2	21.8	21.7	22.3	22.7	21.2	21.8	21.7	22.3	22.7
	12H	21.3	21.8	21.8	22.3	22.8	21.3	21.8	21.8	22.3	22.8
8H	4H	20.9	21.4	21.3	21.9	22.4	20.9	21.4	21.3	21.9	22.4
	6H	21.4	21.9	21.9	22.4	22.9	21.4	21.9	21.9	22.4	22.9
	8H	21.6	22.0	22.1	22.5	23.0	21.6	22.0	22.1	22.5	23.0
	12H	21.7	22.1	22.2	22.6	23.1	21.7	22.1	22.2	22.6	23.1
12H	4H	20.8	21.4	21.3	21.8	22.3	20.8	21.4	21.3	21.8	22.3
	6H	21.4	21.9	22.0	22.3	22.9	21.4	21.9	22.0	22.3	22.9
	8H	21.7	22.0	22.2	22.5	23.1	21.7	22.0	22.2	22.5	23.1

Maximum UGR = 23.1

POLAR GRAPH



Maximum Candela = 524.365 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.)