

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L5-950-DIM-UNV-RW-OF-CS_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM 13257153.03
[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-RW-OF-CS_
[LUMINAIRE] Aluminum housing, optics, and trim enclosure
[LAMP] One white LED
[OTHER] This test was performed using the calibrated photodetector method of absolute photometry.
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Indoor, Downlight
[SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	423
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	63
Total Luminaire Watts	6.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.88
Spacing Criterion (90-270)	0.88
Spacing Criterion (Diagonal)	0.80
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	15149	15149	15149
55	11988	11988	11988
65	8961	8961	8961
75	4666	4666	4666
85	2829	2829	2829

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CANDELA TABULATION

	<u>0</u>
0.0	503.561
0.5	503.561
1.0	503.302
1.5	503.042
2.0	503.042
2.5	502.523
3.0	501.744
3.5	500.706
4.0	499.668
4.5	498.629
5.0	497.072
5.5	495.774
6.0	494.217
6.5	492.400
7.0	490.583
7.5	488.766
8.0	486.949
8.5	484.872
9.0	482.536
9.5	480.460
10.0	478.123
10.5	475.528
11.0	472.673
11.5	469.817
12.0	466.703
12.5	463.588
13.0	460.213
13.5	456.579
14.0	452.686
14.5	448.792
15.0	444.380
15.5	439.967
16.0	435.035
16.5	430.103
17.0	424.912
17.5	419.461
18.0	413.751
18.5	407.521
19.0	401.032
19.5	394.024
20.0	386.756
20.5	379.228
21.0	371.182
21.5	362.875
22.0	353.791
22.5	344.706
23.0	335.102
23.5	325.238
24.0	314.855
24.5	304.473
25.0	293.831
25.5	282.669
26.0	271.248
26.5	259.827

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CANDELA TABULATION - (Cont.)

27.0	248.484
27.5	237.089
28.0	225.590
28.5	214.143
29.0	202.437
29.5	190.652
30.0	178.972
30.5	167.473
31.0	156.130
31.5	145.176
32.0	134.638
32.5	124.670
33.0	115.430
33.5	106.864
34.0	98.895
34.5	91.601
35.0	84.982
35.5	78.909
36.0	73.406
36.5	68.474
37.0	64.087
37.5	60.168
38.0	56.612
38.5	53.445
39.0	50.668
39.5	48.228
40.0	46.047
40.5	44.152
41.0	42.465
41.5	40.960
42.0	39.610
42.5	38.416
43.0	37.326
43.5	36.365
44.0	35.457
44.5	34.626
45.0	33.848
45.5	33.095
46.0	32.394
46.5	31.693
47.0	31.044
47.5	30.395
48.0	29.746
48.5	29.123
49.0	28.501
49.5	27.878
50.0	27.281
50.5	26.710
51.0	26.112
51.5	25.541
52.0	24.996
52.5	24.425
53.0	23.880
53.5	23.335
54.0	22.790
54.5	22.245

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CANDELA TABULATION - (Cont.)

55.0	21.726
55.5	21.207
56.0	20.688
56.5	20.168
57.0	19.649
57.5	19.156
58.0	18.637
58.5	18.144
59.0	17.651
59.5	17.183
60.0	16.690
60.5	16.197
61.0	15.704
61.5	15.237
62.0	14.743
62.5	14.276
63.0	13.809
63.5	13.342
64.0	12.875
64.5	12.407
65.0	11.966
65.5	11.525
66.0	11.084
66.5	10.616
67.0	10.201
67.5	9.786
68.0	9.344
68.5	8.929
69.0	8.514
69.5	8.099
70.0	7.709
70.5	7.294
71.0	6.904
71.5	6.489
72.0	6.100
72.5	5.710
73.0	5.321
73.5	4.932
74.0	4.568
74.5	4.179
75.0	3.816
75.5	3.478
76.0	3.141
76.5	2.881
77.0	2.648
77.5	2.440
78.0	2.284
78.5	2.154
79.0	2.051
79.5	1.947
80.0	1.817
80.5	1.713
81.0	1.609
81.5	1.505
82.0	1.376
82.5	1.272

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CANDELA TABULATION - (Cont.)

83.0	1.194
83.5	1.090
84.0	0.986
84.5	0.883
85.0	0.779
85.5	0.701
86.0	0.597
86.5	0.519
87.0	0.415
87.5	0.337
88.0	0.260
88.5	0.182
89.0	0.104
89.5	0.078
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
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121.0	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
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128.5	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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145.0	0.000
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146.5	0.000
147.0	0.000
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149.5	0.000
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150.5	0.000
151.0	0.000
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152.0	0.000
152.5	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	170.32	N.A.	40.30
0-30	301.51	N.A.	71.40
0-40	359.23	N.A.	85.00
0-60	405.37	N.A.	95.90
0-80	421.64	N.A.	99.80
0-90	422.54	N.A.	100.00
10-90	375.70	N.A.	88.90
20-40	188.91	N.A.	44.70
20-50	215.58	N.A.	51.00
40-70	58.03	N.A.	13.70
60-80	16.26	N.A.	3.80
70-80	4.37	N.A.	1.00
80-90	0.90	N.A.	0.20
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	422.54	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	46.84
10-20	123.48
20-30	131.19
30-40	57.72
40-50	26.67
50-60	19.47
60-70	11.89
70-80	4.37
80-90	0.90
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	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92
2	107	102	97	94	105	100	96	92	97	93	90	94	91	89	91	89	87	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78
4	96	88	82	77	94	87	81	77	84	80	76	82	78	75	80	77	74	73
5	91	82	76	71	89	81	75	71	79	74	70	78	73	70	76	72	69	68
6	86	77	71	66	85	76	70	66	75	69	66	73	69	65	72	68	65	63
7	82	72	66	62	81	72	66	62	70	65	61	69	65	61	68	64	61	59
8	78	68	62	58	77	68	62	58	67	61	58	66	61	57	65	60	57	56
9	74	65	59	55	73	64	58	54	63	58	54	62	57	54	61	57	54	53
10	71	61	55	51	70	61	55	51	60	55	51	59	54	51	58	54	51	50

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UGR TABLE - CORRECTED

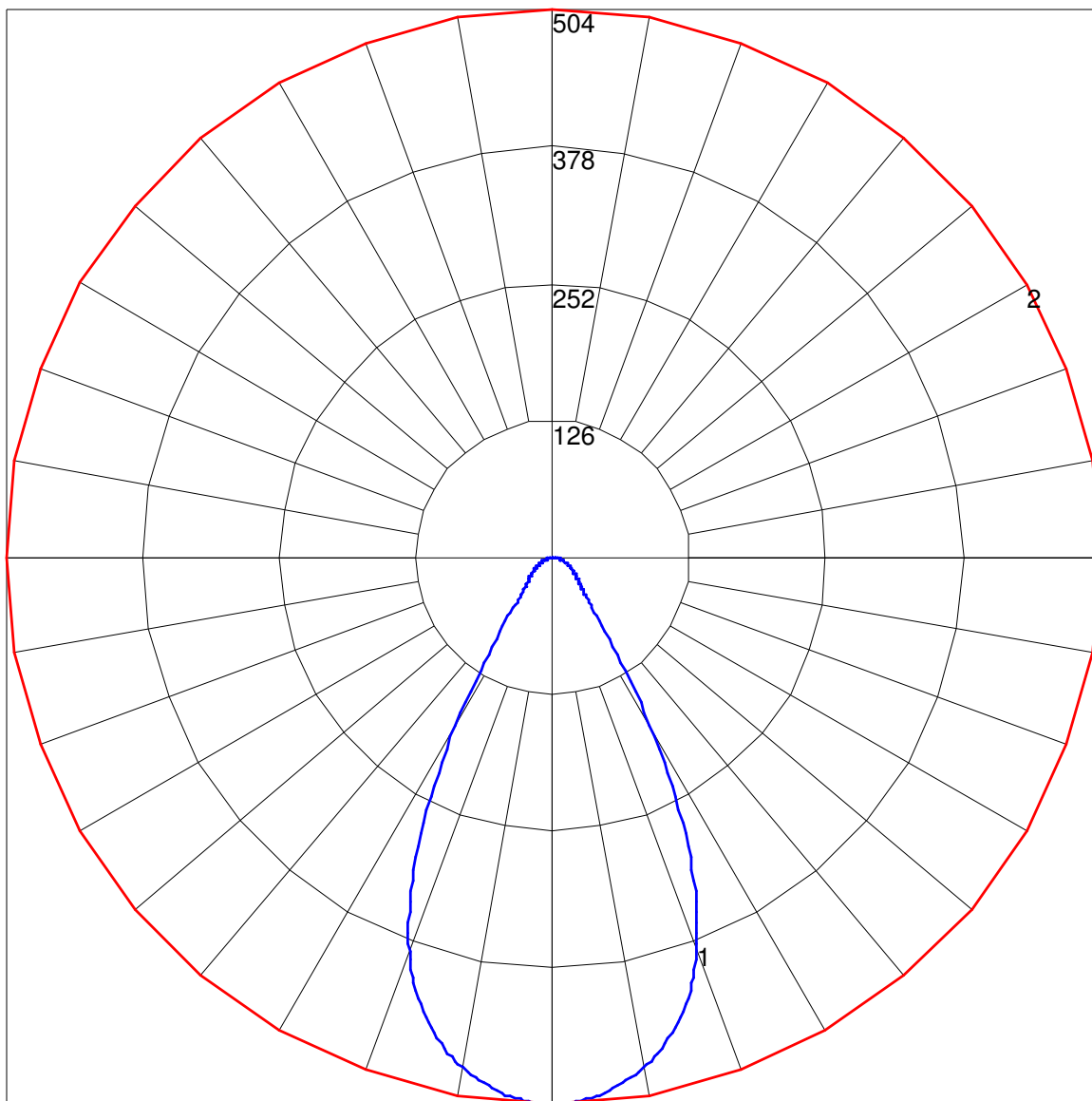
Reflectances

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	15.9	17.0	16.3	17.3	17.6	15.9	17.0	16.3	17.3	17.6
	3H	16.9	17.9	17.3	18.2	18.6	16.9	17.9	17.3	18.2	18.6
	4H	17.1	18.0	17.5	18.4	18.8	17.1	18.0	17.5	18.4	18.8
	6H	17.1	18.0	17.6	18.4	18.8	17.1	18.0	17.6	18.4	18.8
	8H	17.1	17.9	17.6	18.3	18.7	17.1	17.9	17.6	18.3	18.7
	12H	17.1	17.9	17.6	18.3	18.7	17.1	17.9	17.6	18.3	18.7
4H	2H	16.2	17.1	16.6	17.5	17.9	16.2	17.1	16.6	17.5	17.9
	3H	17.4	18.1	17.8	18.6	19.0	17.4	18.1	17.8	18.6	19.0
	4H	17.6	18.3	18.1	18.7	19.2	17.6	18.3	18.1	18.7	19.2
	6H	17.7	18.3	18.2	18.7	19.2	17.7	18.3	18.2	18.7	19.2
	8H	17.7	18.2	18.2	18.7	19.2	17.7	18.2	18.2	18.7	19.2
	12H	17.7	18.2	18.2	18.7	19.1	17.7	18.2	18.2	18.7	19.1
8H	4H	17.6	18.2	18.1	18.6	19.1	17.6	18.2	18.1	18.6	19.1
	6H	17.8	18.2	18.3	18.7	19.2	17.8	18.2	18.3	18.7	19.2
	8H	17.8	18.2	18.3	18.7	19.2	17.8	18.2	18.3	18.7	19.2
	12H	17.8	18.1	18.3	18.6	19.2	17.8	18.1	18.3	18.6	19.2
12H	4H	17.6	18.1	18.1	18.5	19.0	17.6	18.1	18.1	18.5	19.0
	6H	17.7	18.1	18.3	18.6	19.1	17.7	18.1	18.3	18.6	19.1
	8H	17.8	18.1	18.3	18.6	19.2	17.8	18.1	18.3	18.6	19.2

Maximum UGR = 19.2

POLAR GRAPH



Maximum Candela = 503.561 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.)