

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L5-935-DIM-UNV-RW-OF-WH_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM 13257153.03
[TESTLAB] UL Verification Services Inc.
[ISSUE DATE] 2025-05-20
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] V2DR-L5-935-DIM-UNV-RW-OF-WH_
[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	402
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	60
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	14404	14404	14404
55	11398	11398	11398
65	8520	8520	8520
75	4436	4436	4436
85	2687	2687	2687

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CANDELA TABULATION

	<u>0</u>
0.0	478.803
0.5	478.803
1.0	478.557
1.5	478.310
2.0	478.310
2.5	477.816
3.0	477.076
3.5	476.089
4.0	475.101
4.5	474.114
5.0	472.633
5.5	471.399
6.0	469.918
6.5	468.191
7.0	466.463
7.5	464.736
8.0	463.008
8.5	461.033
9.0	458.812
9.5	456.838
10.0	454.616
10.5	452.148
11.0	449.434
11.5	446.719
12.0	443.757
12.5	440.795
13.0	437.587
13.5	434.132
14.0	430.430
14.5	426.727
15.0	422.532
15.5	418.336
16.0	413.647
16.5	408.957
17.0	404.021
17.5	398.838
18.0	393.409
18.5	387.485
19.0	381.315
19.5	374.651
20.0	367.741
20.5	360.583
21.0	352.932
21.5	345.035
22.0	336.396
22.5	327.758
23.0	318.626
23.5	309.248
24.0	299.376
24.5	289.503
25.0	279.384
25.5	268.772
26.0	257.912
26.5	247.053

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CANDELA TABULATION - (Cont.)

27.0	236.267
27.5	225.433
28.0	214.499
28.5	203.615
29.0	192.484
29.5	181.279
30.0	170.173
30.5	159.239
31.0	148.454
31.5	138.039
32.0	128.018
32.5	118.541
33.0	109.755
33.5	101.610
34.0	94.033
34.5	87.098
35.0	80.804
35.5	75.029
36.0	69.797
36.5	65.107
37.0	60.936
37.5	57.210
38.0	53.828
38.5	50.817
39.0	48.177
39.5	45.857
40.0	43.783
40.5	41.982
41.0	40.377
41.5	38.946
42.0	37.663
42.5	36.527
43.0	35.491
43.5	34.578
44.0	33.714
44.5	32.924
45.0	32.183
45.5	31.468
46.0	30.801
46.5	30.135
47.0	29.518
47.5	28.901
48.0	28.284
48.5	27.692
49.0	27.099
49.5	26.507
50.0	25.939
50.5	25.396
51.0	24.829
51.5	24.286
52.0	23.767
52.5	23.224
53.0	22.706
53.5	22.188
54.0	21.670
54.5	21.151

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CANDELA TABULATION - (Cont.)

55.0	20.658
55.5	20.164
56.0	19.670
56.5	19.177
57.0	18.683
57.5	18.214
58.0	17.721
58.5	17.252
59.0	16.783
59.5	16.339
60.0	15.870
60.5	15.401
61.0	14.932
61.5	14.488
62.0	14.019
62.5	13.574
63.0	13.130
63.5	12.686
64.0	12.242
64.5	11.797
65.0	11.378
65.5	10.958
66.0	10.539
66.5	10.094
67.0	9.699
67.5	9.305
68.0	8.885
68.5	8.490
69.0	8.095
69.5	7.700
70.0	7.330
70.5	6.935
71.0	6.565
71.5	6.170
72.0	5.800
72.5	5.430
73.0	5.060
73.5	4.689
74.0	4.344
74.5	3.974
75.0	3.628
75.5	3.307
76.0	2.986
76.5	2.740
77.0	2.517
77.5	2.320
78.0	2.172
78.5	2.048
79.0	1.950
79.5	1.851
80.0	1.728
80.5	1.629
81.0	1.530
81.5	1.431
82.0	1.308
82.5	1.209

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CANDELA TABULATION - (Cont.)

83.0	1.135
83.5	1.037
84.0	0.938
84.5	0.839
85.0	0.740
85.5	0.666
86.0	0.568
86.5	0.494
87.0	0.395
87.5	0.321
88.0	0.247
88.5	0.173
89.0	0.099
89.5	0.074
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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125.5	0.000
126.0	0.000
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127.0	0.000
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128.0	0.000
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129.0	0.000
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130.0	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
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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156.0	0.000
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157.0	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	161.95	N.A.	40.30
0-30	286.69	N.A.	71.40
0-40	341.57	N.A.	85.00
0-60	385.44	N.A.	95.90
0-80	400.91	N.A.	99.80
0-90	401.76	N.A.	100.00
10-90	357.23	N.A.	88.90
20-40	179.63	N.A.	44.70
20-50	204.98	N.A.	51.00
40-70	55.18	N.A.	13.70
60-80	15.46	N.A.	3.80
70-80	4.16	N.A.	1.00
80-90	0.85	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	401.76	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	44.54
10-20	117.41
20-30	124.74
30-40	54.89
40-50	25.36
50-60	18.51
60-70	11.31
70-80	4.16
80-90	0.85
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	93	97	93	91	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	81	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	58	54	61	57	54	53
10	71	61	55	52	70	61	55	51	60	55	51	59	54	51	59	54	51	50

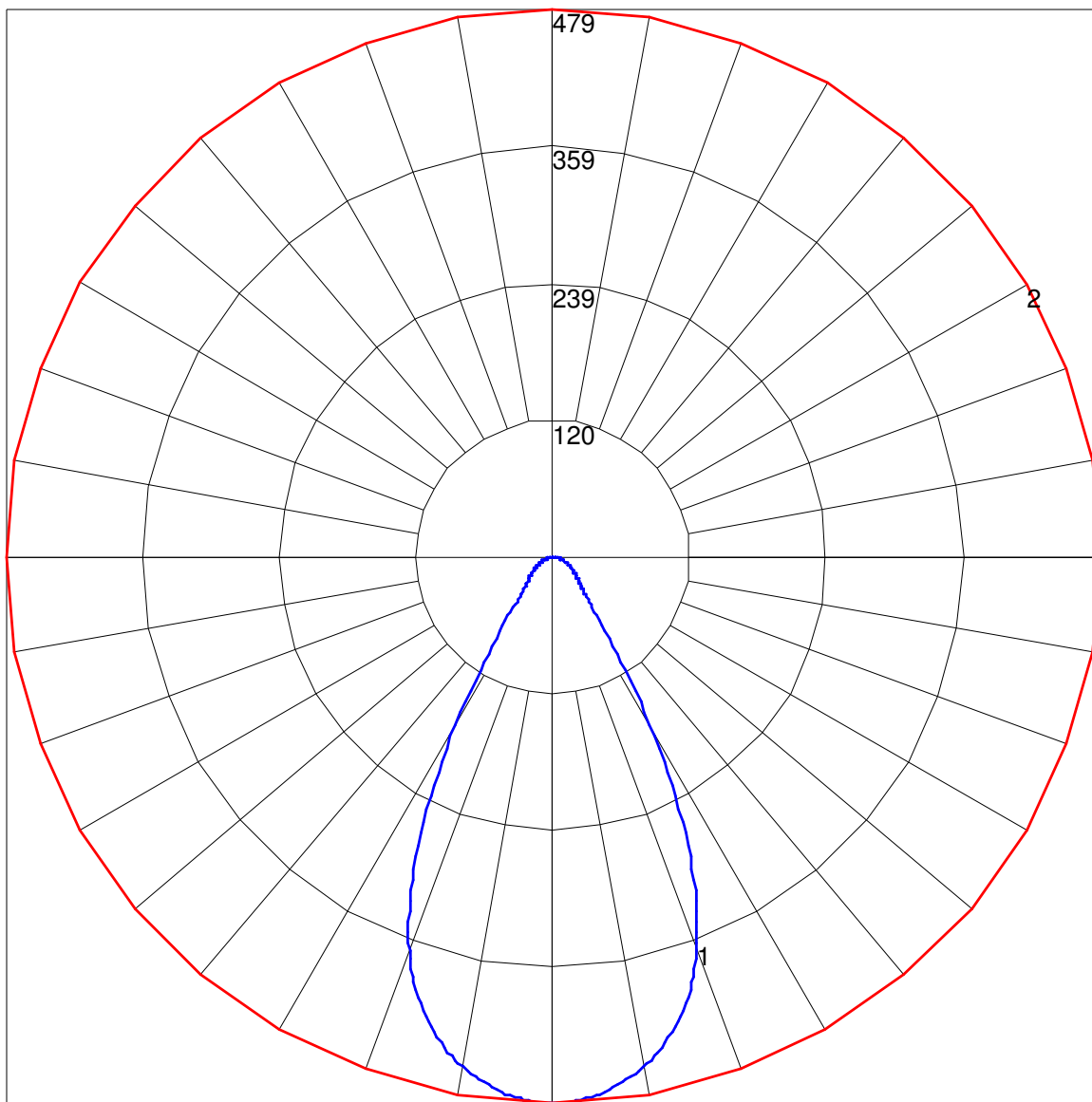
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UGR TABLE - CORRECTED

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	15.8	16.9	16.2	17.2	17.5	15.8	16.9	16.2	17.2	17.5
	3H	16.8	17.8	17.2	18.1	18.5	16.8	17.8	17.2	18.1	18.5
	4H	17.0	17.9	17.4	18.3	18.7	17.0	17.9	17.4	18.3	18.7
	6H	17.1	17.9	17.5	18.3	18.7	17.1	17.9	17.5	18.3	18.7
	8H	17.1	17.8	17.5	18.2	18.6	17.1	17.8	17.5	18.2	18.6
	12H	17.0	17.8	17.5	18.2	18.6	17.0	17.8	17.5	18.2	18.6
4H	2H	16.1	17.0	16.5	17.4	17.8	16.1	17.0	16.5	17.4	17.8
	3H	17.3	18.0	17.7	18.5	18.9	17.3	18.0	17.7	18.5	18.9
	4H	17.5	18.2	18.0	18.6	19.1	17.5	18.2	18.0	18.6	19.1
	6H	17.6	18.2	18.1	18.6	19.1	17.6	18.2	18.1	18.6	19.1
	8H	17.6	18.1	18.1	18.6	19.1	17.6	18.1	18.1	18.6	19.1
	12H	17.6	18.1	18.1	18.6	19.0	17.6	18.1	18.1	18.6	19.0
8H	4H	17.5	18.1	18.0	18.5	19.0	17.5	18.1	18.0	18.5	19.0
	6H	17.7	18.1	18.2	18.6	19.1	17.7	18.1	18.2	18.6	19.1
	8H	17.7	18.1	18.2	18.6	19.1	17.7	18.1	18.2	18.6	19.1
	12H	17.7	18.1	18.2	18.5	19.1	17.7	18.1	18.2	18.5	19.1
12H	4H	17.5	18.0	18.0	18.4	18.9	17.5	18.0	18.0	18.4	18.9
	6H	17.6	18.0	18.2	18.5	19.0	17.6	18.0	18.2	18.5	19.0
	8H	17.7	18.0	18.2	18.5	19.1	17.7	18.0	18.2	18.5	19.1

Maximum UGR = 19.1

POLAR GRAPH



Maximum Candela = 478.803 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.)