

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L5-850-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-L5-850-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	500
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	75
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	17918	17918	17918
55	14178	14178	14178
65	10599	10599	10599
75	5518	5518	5518
85	3344	3344	3344

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CANDELA TABULATION

	<u>0</u>
0.0	595.585
0.5	595.585
1.0	595.278
1.5	594.971
2.0	594.971
2.5	594.357
3.0	593.436
3.5	592.208
4.0	590.980
4.5	589.752
5.0	587.910
5.5	586.375
6.0	584.533
6.5	582.384
7.0	580.235
7.5	578.086
8.0	575.937
8.5	573.481
9.0	570.718
9.5	568.262
10.0	565.499
10.5	562.429
11.0	559.052
11.5	555.675
12.0	551.991
12.5	548.306
13.0	544.315
13.5	540.017
14.0	535.412
14.5	530.807
15.0	525.588
15.5	520.369
16.0	514.536
16.5	508.703
17.0	502.563
17.5	496.116
18.0	489.362
18.5	481.994
19.0	474.319
19.5	466.030
20.0	457.434
20.5	448.531
21.0	439.014
21.5	429.190
22.0	418.444
22.5	407.699
23.0	396.340
23.5	384.674
24.0	372.394
24.5	360.114
25.0	347.527
25.5	334.326
26.0	320.818
26.5	307.310

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**CANDELA TABULATION - (Cont.)**

27.0	293.894
27.5	280.416
28.0	266.816
28.5	253.277
29.0	239.431
29.5	225.493
30.0	211.678
30.5	198.078
31.0	184.662
31.5	171.707
32.0	159.242
32.5	147.453
33.0	136.524
33.5	126.393
34.0	116.968
34.5	108.341
35.0	100.513
35.5	93.329
36.0	86.820
36.5	80.987
37.0	75.799
37.5	71.163
38.0	66.957
38.5	63.212
39.0	59.927
39.5	57.041
40.0	54.462
40.5	52.221
41.0	50.226
41.5	48.445
42.0	46.849
42.5	45.436
43.0	44.147
43.5	43.011
44.0	41.937
44.5	40.954
45.0	40.033
45.5	39.143
46.0	38.314
46.5	37.485
47.0	36.718
47.5	35.950
48.0	35.182
48.5	34.446
49.0	33.709
49.5	32.972
50.0	32.266
50.5	31.591
51.0	30.884
51.5	30.209
52.0	29.564
52.5	28.889
53.0	28.244
53.5	27.600
54.0	26.955
54.5	26.310

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CANDELA TABULATION - (Cont.)

55.0	25.696
55.5	25.082
56.0	24.468
56.5	23.854
57.0	23.240
57.5	22.657
58.0	22.043
58.5	21.459
59.0	20.876
59.5	20.324
60.0	19.740
60.5	19.157
61.0	18.574
61.5	18.021
62.0	17.438
62.5	16.885
63.0	16.333
63.5	15.780
64.0	15.227
64.5	14.675
65.0	14.153
65.5	13.631
66.0	13.109
66.5	12.556
67.0	12.065
67.5	11.574
68.0	11.052
68.5	10.561
69.0	10.070
69.5	9.578
70.0	9.118
70.5	8.627
71.0	8.166
71.5	7.675
72.0	7.215
72.5	6.754
73.0	6.294
73.5	5.833
74.0	5.403
74.5	4.943
75.0	4.513
75.5	4.114
76.0	3.715
76.5	3.408
77.0	3.131
77.5	2.886
78.0	2.702
78.5	2.548
79.0	2.425
79.5	2.303
80.0	2.149
80.5	2.026
81.0	1.903
81.5	1.781
82.0	1.627
82.5	1.504

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CANDELA TABULATION - (Cont.)

83.0	1.412
83.5	1.289
84.0	1.167
84.5	1.044
85.0	0.921
85.5	0.829
86.0	0.706
86.5	0.614
87.0	0.491
87.5	0.399
88.0	0.307
88.5	0.215
89.0	0.123
89.5	0.092
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
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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	201.45	N.A.	40.30
0-30	356.61	N.A.	71.40
0-40	424.88	N.A.	85.00
0-60	479.46	N.A.	95.90
0-80	498.69	N.A.	99.80
0-90	499.75	N.A.	100.00
10-90	444.35	N.A.	88.90
20-40	223.44	N.A.	44.70
20-50	254.98	N.A.	51.00
40-70	68.64	N.A.	13.70
60-80	19.24	N.A.	3.80
70-80	5.17	N.A.	1.00
80-90	1.06	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	499.75	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	55.40
10-20	146.05
20-30	155.17
30-40	68.27
40-50	31.54
50-60	23.03
60-70	14.07
70-80	5.17
80-90	1.06
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	78	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	71	78	73	70	76	72	69	68
6	86	77	71	66	85	76	70	66	75	70	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

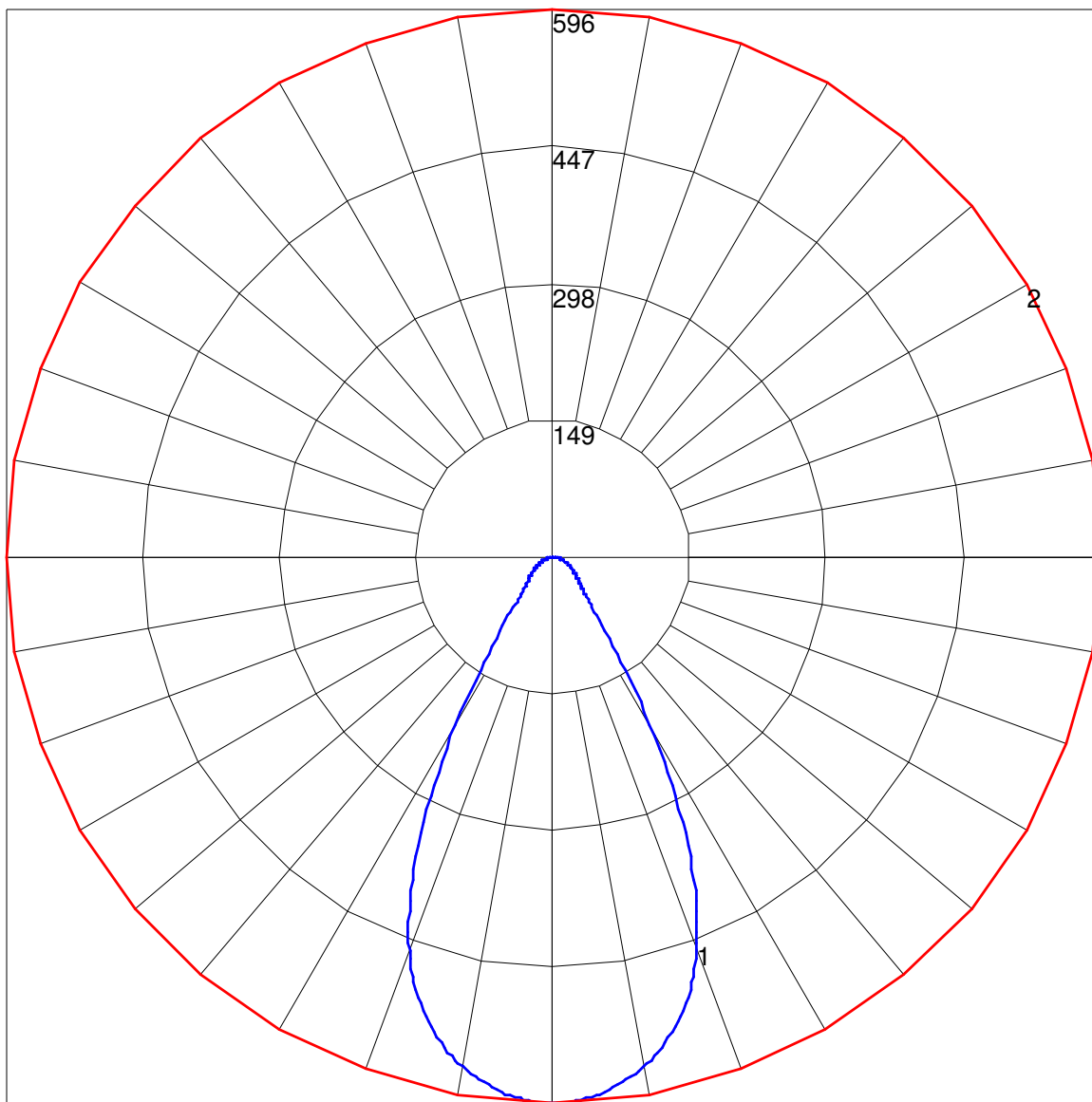
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**UGR TABLE - CORRECTED**

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	16.5	17.6	16.9	17.9	18.2	16.5	17.6	16.9	17.9	18.2
	3H	17.5	18.5	17.9	18.8	19.2	17.5	18.5	17.9	18.8	19.2
	4H	17.7	18.6	18.1	19.0	19.4	17.7	18.6	18.1	19.0	19.4
	6H	17.7	18.6	18.2	19.0	19.3	17.7	18.6	18.2	19.0	19.3
	8H	17.7	18.5	18.2	18.9	19.3	17.7	18.5	18.2	18.9	19.3
	12H	17.7	18.5	18.2	18.9	19.3	17.7	18.5	18.2	18.9	19.3
4H	2H	16.8	17.7	17.2	18.1	18.5	16.8	17.7	17.2	18.1	18.5
	3H	18.0	18.7	18.4	19.2	19.6	18.0	18.7	18.4	19.2	19.6
	4H	18.2	18.9	18.7	19.3	19.8	18.2	18.9	18.7	19.3	19.8
	6H	18.3	18.9	18.8	19.3	19.8	18.3	18.9	18.8	19.3	19.8
	8H	18.3	18.8	18.8	19.3	19.8	18.3	18.8	18.8	19.3	19.8
	12H	18.3	18.8	18.8	19.3	19.7	18.3	18.8	18.8	19.3	19.7
8H	4H	18.2	18.8	18.7	19.2	19.7	18.2	18.8	18.7	19.2	19.7
	6H	18.4	18.8	18.9	19.3	19.8	18.4	18.8	18.9	19.3	19.8
	8H	18.4	18.8	18.9	19.3	19.8	18.4	18.8	18.9	19.3	19.8
	12H	18.4	18.7	18.9	19.2	19.8	18.4	18.7	18.9	19.2	19.8
12H	4H	18.2	18.6	18.7	19.1	19.6	18.2	18.6	18.7	19.1	19.6
	6H	18.3	18.7	18.9	19.2	19.7	18.3	18.7	18.9	19.2	19.7
	8H	18.4	18.7	18.9	19.2	19.8	18.4	18.7	18.9	19.2	19.8

Maximum UGR = 19.8

POLAR GRAPH



Maximum Candela = 595.585 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.)