

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L8-930-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-L8-930-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	630
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	59
Total Luminaire Watts	10.7
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	22601	22601	22601
55	17884	17884	17884
65	13369	13369	13369
75	6960	6960	6960
85	4219	4219	4219

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CANDELA TABULATION

	<u>0</u>
0.0	751.238
0.5	751.238
1.0	750.850
1.5	750.463
2.0	750.463
2.5	749.689
3.0	748.527
3.5	746.978
4.0	745.429
4.5	743.880
5.0	741.557
5.5	739.621
6.0	737.297
6.5	734.587
7.0	731.876
7.5	729.165
8.0	726.455
8.5	723.357
9.0	719.872
9.5	716.774
10.0	713.289
10.5	709.416
11.0	705.157
11.5	700.897
12.0	696.250
12.5	691.603
13.0	686.569
13.5	681.148
14.0	675.339
14.5	669.531
15.0	662.948
15.5	656.365
16.0	649.007
16.5	641.650
17.0	633.905
17.5	625.773
18.0	617.254
18.5	607.960
19.0	598.279
19.5	587.824
20.0	576.982
20.5	565.752
21.0	553.747
21.5	541.356
22.0	527.803
22.5	514.249
23.0	499.922
23.5	485.207
24.0	469.717
24.5	454.228
25.0	438.351
25.5	421.700
26.0	404.662
26.5	387.623

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**CANDELA TABULATION - (Cont.)**

<b>27.0</b>	370.701
<b>27.5</b>	353.701
<b>28.0</b>	336.547
<b>28.5</b>	319.470
<b>29.0</b>	302.005
<b>29.5</b>	284.425
<b>30.0</b>	266.999
<b>30.5</b>	249.845
<b>31.0</b>	232.922
<b>31.5</b>	216.581
<b>32.0</b>	200.859
<b>32.5</b>	185.989
<b>33.0</b>	172.204
<b>33.5</b>	159.425
<b>34.0</b>	147.537
<b>34.5</b>	136.656
<b>35.0</b>	126.781
<b>35.5</b>	117.720
<b>36.0</b>	109.510
<b>36.5</b>	102.153
<b>37.0</b>	95.609
<b>37.5</b>	89.761
<b>38.0</b>	84.456
<b>38.5</b>	79.732
<b>39.0</b>	75.588
<b>39.5</b>	71.948
<b>40.0</b>	68.696
<b>40.5</b>	65.869
<b>41.0</b>	63.352
<b>41.5</b>	61.106
<b>42.0</b>	59.092
<b>42.5</b>	57.311
<b>43.0</b>	55.685
<b>43.5</b>	54.252
<b>44.0</b>	52.896
<b>44.5</b>	51.657
<b>45.0</b>	50.496
<b>45.5</b>	49.373
<b>46.0</b>	48.327
<b>46.5</b>	47.282
<b>47.0</b>	46.313
<b>47.5</b>	45.345
<b>48.0</b>	44.377
<b>48.5</b>	43.448
<b>49.0</b>	42.519
<b>49.5</b>	41.589
<b>50.0</b>	40.698
<b>50.5</b>	39.847
<b>51.0</b>	38.956
<b>51.5</b>	38.104
<b>52.0</b>	37.291
<b>52.5</b>	36.439
<b>53.0</b>	35.626
<b>53.5</b>	34.813
<b>54.0</b>	33.999
<b>54.5</b>	33.186

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**CANDELA TABULATION - (Cont.)**

55.0	32.412
55.5	31.637
56.0	30.863
56.5	30.088
57.0	29.314
57.5	28.578
58.0	27.804
58.5	27.068
59.0	26.332
59.5	25.635
60.0	24.899
60.5	24.164
61.0	23.428
61.5	22.731
62.0	21.995
62.5	21.298
63.0	20.601
63.5	19.904
64.0	19.207
64.5	18.510
65.0	17.852
65.5	17.193
66.0	16.535
66.5	15.838
67.0	15.218
67.5	14.599
68.0	13.940
68.5	13.321
69.0	12.701
69.5	12.082
70.0	11.501
70.5	10.881
71.0	10.300
71.5	9.681
72.0	9.100
72.5	8.519
73.0	7.938
73.5	7.357
74.0	6.815
74.5	6.234
75.0	5.692
75.5	5.189
76.0	4.686
76.5	4.298
77.0	3.950
77.5	3.640
78.0	3.408
78.5	3.214
79.0	3.059
79.5	2.904
80.0	2.711
80.5	2.556
81.0	2.401
81.5	2.246
82.0	2.052
82.5	1.897

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CANDELA TABULATION - (Cont.)

83.0	1.781
83.5	1.626
84.0	1.471
84.5	1.317
85.0	1.162
85.5	1.046
86.0	0.891
86.5	0.774
87.0	0.620
87.5	0.503
88.0	0.387
88.5	0.271
89.0	0.155
89.5	0.116
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
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127.0	0.000
127.5	0.000
128.0	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
144.5	0.000
145.0	0.000
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151.5	0.000
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152.5	0.000
153.0	0.000
153.5	0.000
154.0	0.000
154.5	0.000
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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	254.09	N.A.	40.30
0-30	449.81	N.A.	71.40
0-40	535.92	N.A.	85.00
0-60	604.76	N.A.	95.90
0-80	629.02	N.A.	99.80
0-90	630.36	N.A.	100.00
10-90	560.48	N.A.	88.90
20-40	281.83	N.A.	44.70
20-50	321.62	N.A.	51.00
40-70	86.58	N.A.	13.70
60-80	24.26	N.A.	3.80
70-80	6.52	N.A.	1.00
80-90	1.34	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	630.36	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	69.88
10-20	184.21
20-30	195.72
30-40	86.11
40-50	39.79
50-60	29.05
60-70	17.74
70-80	6.52
80-90	1.34
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	111	108	105	103	104	102	100	100	99	97	97	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	86	83	80	79
4	96	88	82	78	94	87	81	77	85	80	76	83	79	75	81	77	74	73
5	91	82	76	72	89	81	76	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	73	66	62	81	72	66	62	71	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	75	65	59	55	73	64	58	55	63	58	54	62	58	54	62	57	54	53
10	71	61	55	52	70	61	55	51	60	55	51	59	55	51	59	54	51	50

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**UGR TABLE - CORRECTED**

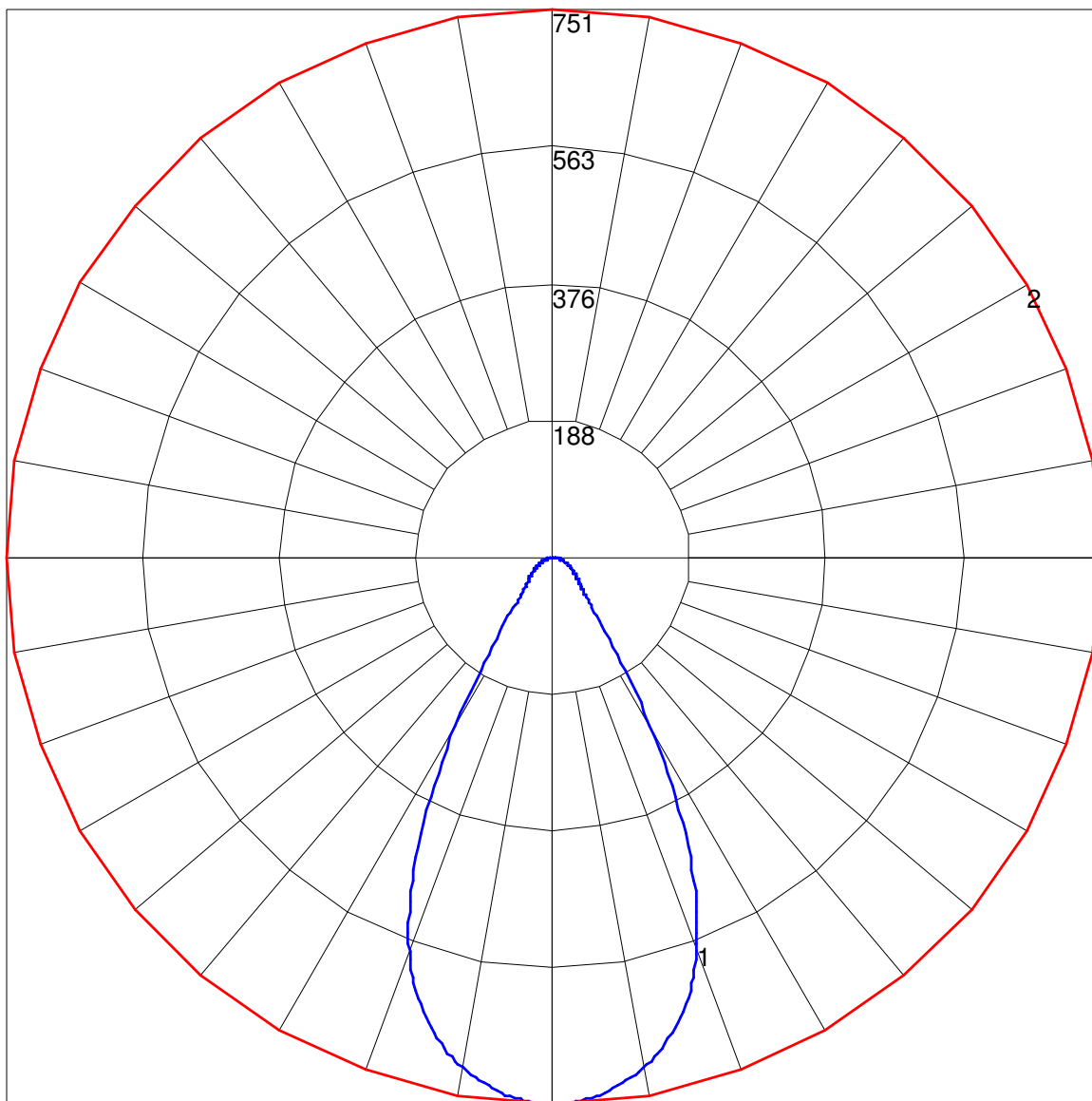
Reflectances

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	17.3	18.4	17.7	18.7	19.0	17.3	18.4	17.7	18.7	19.0
	3H	18.3	19.3	18.7	19.6	20.0	18.3	19.3	18.7	19.6	20.0
	4H	18.5	19.4	18.9	19.8	20.2	18.5	19.4	18.9	19.8	20.2
	6H	18.5	19.4	19.0	19.8	20.1	18.5	19.4	19.0	19.8	20.1
	8H	18.5	19.3	19.0	19.7	20.1	18.5	19.3	19.0	19.7	20.1
	12H	18.5	19.3	19.0	19.7	20.1	18.5	19.3	19.0	19.7	20.1
4H	2H	17.6	18.5	18.0	18.9	19.3	17.6	18.5	18.0	18.9	19.3
	3H	18.8	19.5	19.2	20.0	20.4	18.8	19.5	19.2	20.0	20.4
	4H	19.0	19.7	19.5	20.1	20.6	19.0	19.7	19.5	20.1	20.6
	6H	19.1	19.7	19.6	20.1	20.6	19.1	19.7	19.6	20.1	20.6
	8H	19.1	19.6	19.6	20.1	20.6	19.1	19.6	19.6	20.1	20.6
	12H	19.1	19.6	19.6	20.1	20.5	19.1	19.6	19.6	20.1	20.5
8H	4H	19.0	19.6	19.5	20.0	20.5	19.0	19.6	19.5	20.0	20.5
	6H	19.2	19.6	19.7	20.1	20.6	19.2	19.6	19.7	20.1	20.6
	8H	19.2	19.6	19.7	20.1	20.6	19.2	19.6	19.7	20.1	20.6
	12H	19.2	19.5	19.7	20.0	20.6	19.2	19.5	19.7	20.0	20.6
12H	4H	19.0	19.4	19.5	19.9	20.4	19.0	19.4	19.5	19.9	20.4
	6H	19.1	19.5	19.7	20.0	20.5	19.1	19.5	19.7	20.0	20.5
	8H	19.2	19.5	19.7	20.0	20.6	19.2	19.5	19.7	20.0	20.6

Maximum UGR = 20.6

POLAR GRAPH



Maximum Candela = 751.238 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.)