

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L8-930-DIM-UNV-RW-OF-BL\_.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-L8-930-DIM-UNV-RW-OF-BL\_  
[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  
[ \_SEARCH\_MOUNTING] Recessed

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	498
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	47
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	17854	17854	17854
55	14128	14128	14128
65	10561	10561	10561
75	5499	5499	5499
85	3333	3333	3333

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CANDELA TABULATION

	<u>0</u>
0.0	593.478
0.5	593.478
1.0	593.172
1.5	592.866
2.0	592.866
2.5	592.254
3.0	591.336
3.5	590.113
4.0	588.889
4.5	587.665
5.0	585.830
5.5	584.300
6.0	582.465
6.5	580.323
7.0	578.182
7.5	576.040
8.0	573.899
8.5	571.452
9.0	568.698
9.5	566.251
10.0	563.498
10.5	560.439
11.0	557.074
11.5	553.709
12.0	550.038
12.5	546.367
13.0	542.390
13.5	538.107
14.0	533.518
14.5	528.929
15.0	523.729
15.5	518.528
16.0	512.716
16.5	506.903
17.0	500.785
17.5	494.361
18.0	487.631
18.5	480.289
19.0	472.641
19.5	464.381
20.0	455.815
20.5	446.944
21.0	437.460
21.5	427.671
22.0	416.964
22.5	406.257
23.0	394.938
23.5	383.313
24.0	371.076
24.5	358.840
25.0	346.297
25.5	333.143
26.0	319.683
26.5	306.222

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**CANDELA TABULATION - (Cont.)**

27.0	292.854
27.5	279.424
28.0	265.872
28.5	252.381
29.0	238.584
29.5	224.696
30.0	210.929
30.5	197.377
31.0	184.009
31.5	171.099
32.0	158.679
32.5	146.932
33.0	136.041
33.5	125.946
34.0	116.554
34.5	107.958
35.0	100.157
35.5	92.999
36.0	86.513
36.5	80.701
37.0	75.531
37.5	70.911
38.0	66.720
38.5	62.988
39.0	59.715
39.5	56.839
40.0	54.270
40.5	52.036
41.0	50.048
41.5	48.274
42.0	46.683
42.5	45.276
43.0	43.991
43.5	42.859
44.0	41.788
44.5	40.809
45.0	39.891
45.5	39.004
46.0	38.178
46.5	37.352
47.0	36.588
47.5	35.823
48.0	35.058
48.5	34.324
49.0	33.590
49.5	32.855
50.0	32.152
50.5	31.479
51.0	30.775
51.5	30.102
52.0	29.460
52.5	28.787
53.0	28.144
53.5	27.502
54.0	26.859
54.5	26.217

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**CANDELA TABULATION - (Cont.)**

55.0	25.605
55.5	24.993
56.0	24.382
56.5	23.770
57.0	23.158
57.5	22.577
58.0	21.965
58.5	21.384
59.0	20.802
59.5	20.252
60.0	19.670
60.5	19.089
61.0	18.508
61.5	17.957
62.0	17.376
62.5	16.825
63.0	16.275
63.5	15.724
64.0	15.173
64.5	14.623
65.0	14.103
65.5	13.583
66.0	13.063
66.5	12.512
67.0	12.023
67.5	11.533
68.0	11.013
68.5	10.524
69.0	10.034
69.5	9.545
70.0	9.086
70.5	8.596
71.0	8.137
71.5	7.648
72.0	7.189
72.5	6.730
73.0	6.271
73.5	5.812
74.0	5.384
74.5	4.925
75.0	4.497
75.5	4.099
76.0	3.702
76.5	3.396
77.0	3.120
77.5	2.876
78.0	2.692
78.5	2.539
79.0	2.417
79.5	2.294
80.0	2.141
80.5	2.019
81.0	1.897
81.5	1.774
82.0	1.621
82.5	1.499

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CANDELA TABULATION - (Cont.)

83.0	1.407
83.5	1.285
84.0	1.162
84.5	1.040
85.0	0.918
85.5	0.826
86.0	0.704
86.5	0.612
87.0	0.489
87.5	0.398
88.0	0.306
88.5	0.214
89.0	0.122
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
156.5	0.000
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	200.73	N.A.	40.30
0-30	355.35	N.A.	71.40
0-40	423.38	N.A.	85.00
0-60	477.76	N.A.	95.90
0-80	496.93	N.A.	99.80
0-90	497.98	N.A.	100.00
10-90	442.78	N.A.	88.90
20-40	222.65	N.A.	44.70
20-50	254.08	N.A.	51.00
40-70	68.40	N.A.	13.70
60-80	19.17	N.A.	3.80
70-80	5.15	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	497.98	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	55.20
10-20	145.53
20-30	154.62
30-40	68.03
40-50	31.43
50-60	22.95
60-70	14.02
70-80	5.15
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	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	85	83	80	79
4	96	88	82	78	94	87	81	77	84	80	76	82	78	75	81	77	74	73
5	91	82	76	72	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	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	61	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**

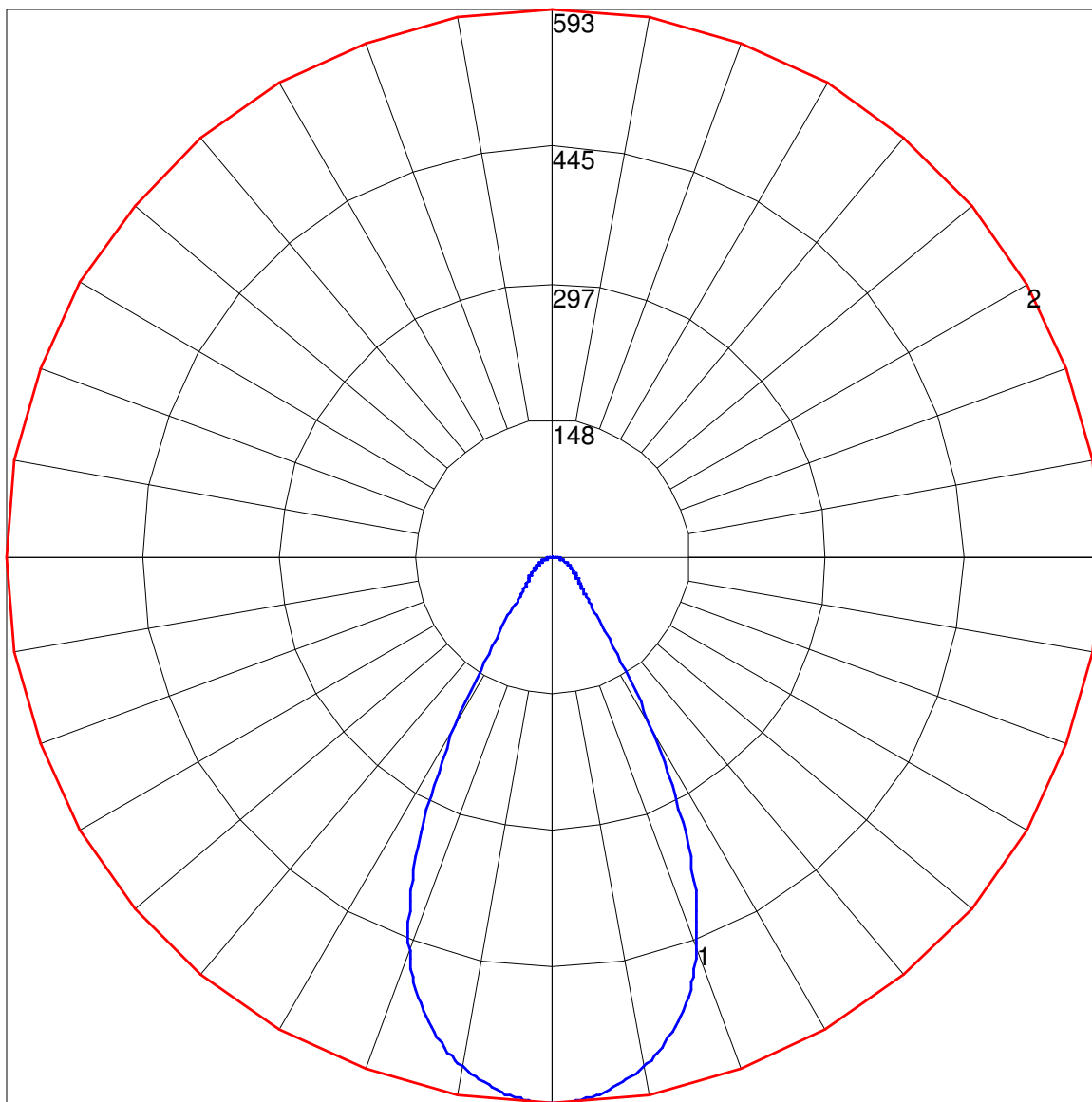
Reflectances

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	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	17.8	18.6	18.2	19.0	19.4	17.8	18.6	18.2	19.0	19.4
	8H	17.8	18.5	18.2	18.9	19.3	17.8	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	18.8	18.9	19.2	19.8	18.4	18.8	18.9	19.2	19.8
12H	4H	18.2	18.7	18.7	19.1	19.6	18.2	18.7	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 = 593.478 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.)