

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L14-850-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-L14-850-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 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	1367
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	79
Total Luminaire Watts	17.3
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	49023	49023	49023
55	38792	38792	38792
65	28997	28997	28997
75	15098	15098	15098
85	9151	9151	9151

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CANDELA TABULATION

	<u>0</u>
0.0	1629.520
0.5	1629.520
1.0	1628.680
1.5	1627.840
2.0	1627.840
2.5	1626.160
3.0	1623.640
3.5	1620.280
4.0	1616.921
4.5	1613.561
5.0	1608.521
5.5	1604.321
6.0	1599.281
6.5	1593.402
7.0	1587.522
7.5	1581.642
8.0	1575.763
8.5	1569.043
9.0	1561.483
9.5	1554.764
10.0	1547.204
10.5	1538.804
11.0	1529.565
11.5	1520.325
12.0	1510.246
12.5	1500.166
13.0	1489.247
13.5	1477.487
14.0	1464.888
14.5	1452.289
15.0	1438.009
15.5	1423.730
16.0	1407.771
16.5	1391.812
17.0	1375.012
17.5	1357.373
18.0	1338.894
18.5	1318.735
19.0	1297.736
19.5	1275.057
20.0	1251.539
20.5	1227.180
21.0	1201.141
21.5	1174.262
22.0	1144.864
22.5	1115.465
23.0	1084.387
23.5	1052.468
24.0	1018.870
24.5	985.272
25.0	950.833
25.5	914.715
26.0	877.757
26.5	840.799

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**CANDELA TABULATION - (Cont.)**

27.0	804.092
27.5	767.218
28.0	730.008
28.5	692.966
29.0	655.084
29.5	616.950
30.0	579.152
30.5	541.941
31.0	505.235
31.5	469.789
32.0	435.687
32.5	403.432
33.0	373.530
33.5	345.811
34.0	320.024
34.5	296.421
35.0	275.002
35.5	255.347
36.0	237.540
36.5	221.581
37.0	207.386
37.5	194.702
38.0	183.195
38.5	172.948
39.0	163.960
39.5	156.064
40.0	149.009
40.5	142.877
41.0	137.417
41.5	132.545
42.0	128.178
42.5	124.314
43.0	120.786
43.5	117.678
44.0	114.738
44.5	112.050
45.0	109.531
45.5	107.095
46.0	104.827
46.5	102.559
47.0	100.459
47.5	98.359
48.0	96.259
48.5	94.243
49.0	92.227
49.5	90.212
50.0	88.280
50.5	86.432
51.0	84.500
51.5	82.652
52.0	80.888
52.5	79.040
53.0	77.276
53.5	75.512
54.0	73.748
54.5	71.984

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**CANDELA TABULATION - (Cont.)**

55.0	70.305
55.5	68.625
56.0	66.945
56.5	65.265
57.0	63.585
57.5	61.989
58.0	60.309
58.5	58.713
59.0	57.117
59.5	55.605
60.0	54.009
60.5	52.413
61.0	50.818
61.5	49.306
62.0	47.710
62.5	46.198
63.0	44.686
63.5	43.174
64.0	41.662
64.5	40.150
65.0	38.722
65.5	37.294
66.0	35.866
66.5	34.354
67.0	33.010
67.5	31.666
68.0	30.239
68.5	28.895
69.0	27.551
69.5	26.207
70.0	24.947
70.5	23.603
71.0	22.343
71.5	20.999
72.0	19.739
72.5	18.479
73.0	17.219
73.5	15.959
74.0	14.783
74.5	13.523
75.0	12.347
75.5	11.255
76.0	10.164
76.5	9.324
77.0	8.568
77.5	7.896
78.0	7.392
78.5	6.972
79.0	6.636
79.5	6.300
80.0	5.880
80.5	5.544
81.0	5.208
81.5	4.872
82.0	4.452
82.5	4.116

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CANDELA TABULATION - (Cont.)

83.0	3.864
83.5	3.528
84.0	3.192
84.5	2.856
85.0	2.520
85.5	2.268
86.0	1.932
86.5	1.680
87.0	1.344
87.5	1.092
88.0	0.840
88.5	0.588
89.0	0.336
89.5	0.252
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	551.15	N.A.	40.30
0-30	975.69	N.A.	71.40
0-40	1162.48	N.A.	85.00
0-60	1311.79	N.A.	95.90
0-80	1364.42	N.A.	99.80
0-90	1367.32	N.A.	100.00
10-90	1215.75	N.A.	88.90
20-40	611.33	N.A.	44.70
20-50	697.62	N.A.	51.00
40-70	187.80	N.A.	13.70
60-80	52.63	N.A.	3.80
70-80	14.14	N.A.	1.00
80-90	2.91	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	1367.32	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	151.57
10-20	399.58
20-30	424.53
30-40	186.79
40-50	86.30
50-60	63.01
60-70	38.49
70-80	14.14
80-90	2.91
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	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	86	83	80	79
4	96	88	82	78	94	87	81	77	85	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	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

X=2H	Y=2H	20.0	21.1	20.4	21.4	21.7	20.0	21.1	20.4	21.4	21.7
	3H	21.0	22.0	21.4	22.3	22.7	21.0	22.0	21.4	22.3	22.7
	4H	21.2	22.1	21.6	22.5	22.9	21.2	22.1	21.6	22.5	22.9
	6H	21.2	22.1	21.7	22.5	22.8	21.2	22.1	21.7	22.5	22.8
	8H	21.2	22.0	21.7	22.4	22.8	21.2	22.0	21.7	22.4	22.8
	12H	21.2	22.0	21.7	22.4	22.8	21.2	22.0	21.7	22.4	22.8

UGR Viewed Endwise

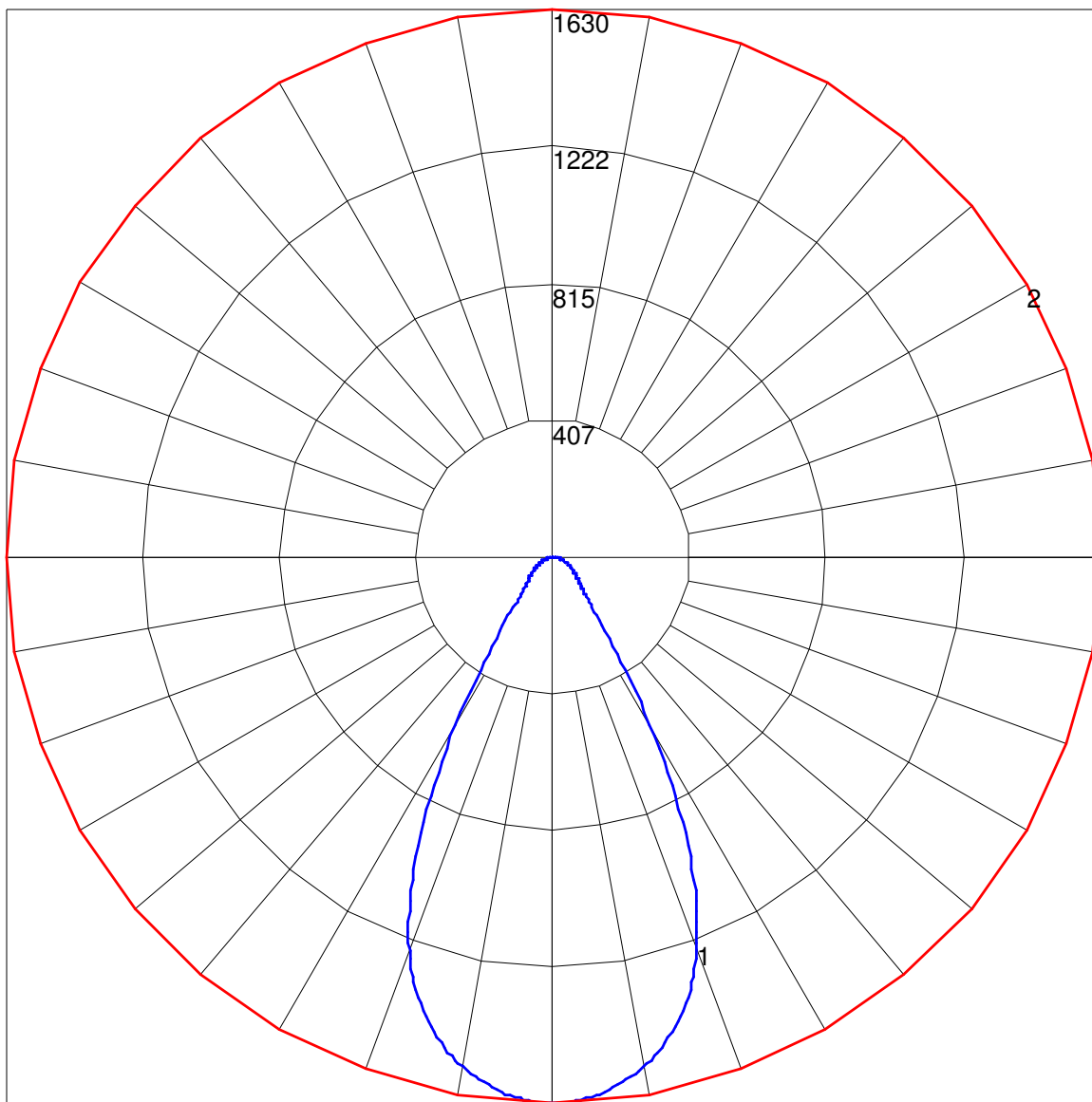
4H	2H	20.3	21.2	20.7	21.6	22.0	20.3	21.2	20.7	21.6	22.0
	3H	21.5	22.2	21.9	22.7	23.1	21.5	22.2	21.9	22.7	23.1
	4H	21.7	22.4	22.2	22.8	23.3	21.7	22.4	22.2	22.8	23.3
	6H	21.8	22.4	22.3	22.8	23.3	21.8	22.4	22.3	22.8	23.3
	8H	21.8	22.3	22.3	22.8	23.3	21.8	22.3	22.3	22.8	23.3
	12H	21.8	22.3	22.3	22.8	23.2	21.8	22.3	22.3	22.8	23.2

8H	4H	21.7	22.3	22.2	22.7	23.2	21.7	22.3	22.2	22.7	23.2
	6H	21.9	22.3	22.4	22.8	23.3	21.9	22.3	22.4	22.8	23.3
	8H	21.9	22.3	22.4	22.8	23.3	21.9	22.3	22.4	22.8	23.3
	12H	21.9	22.2	22.4	22.7	23.3	21.9	22.2	22.4	22.7	23.3

12H	4H	21.7	22.1	22.2	22.6	23.1	21.7	22.1	22.2	22.6	23.1
	6H	21.8	22.2	22.4	22.7	23.2	21.8	22.2	22.4	22.7	23.2
	8H	21.9	22.2	22.4	22.7	23.3	21.9	22.2	22.4	22.7	23.3

Maximum UGR = 23.3

POLAR GRAPH



Maximum Candela = 1629.52 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.)