

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L14-830-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-L14-830-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 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	1314
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	76
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	47100	47100	47100
55	37271	37271	37271
65	27860	27860	27860
75	14506	14506	14506
85	8791	8791	8791

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CANDELA TABULATION

	<u>0</u>
0.0	1565.617
0.5	1565.617
1.0	1564.810
1.5	1564.003
2.0	1564.003
2.5	1562.389
3.0	1559.968
3.5	1556.740
4.0	1553.512
4.5	1550.284
5.0	1545.442
5.5	1541.407
6.0	1536.565
6.5	1530.915
7.0	1525.266
7.5	1519.617
8.0	1513.968
8.5	1507.512
9.0	1500.249
9.5	1493.792
10.0	1486.529
10.5	1478.459
11.0	1469.582
11.5	1460.705
12.0	1451.020
12.5	1441.336
13.0	1430.845
13.5	1419.547
14.0	1407.441
14.5	1395.336
15.0	1381.617
15.5	1367.898
16.0	1352.564
16.5	1337.231
17.0	1321.090
17.5	1304.143
18.0	1286.389
18.5	1267.020
19.0	1246.845
19.5	1225.055
20.0	1202.459
20.5	1179.055
21.0	1154.037
21.5	1128.213
22.0	1099.967
22.5	1071.721
23.0	1041.862
23.5	1011.195
24.0	978.914
24.5	946.633
25.0	913.546
25.5	878.844
26.0	843.335
26.5	807.826

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**CANDELA TABULATION - (Cont.)**

27.0	772.559
27.5	737.131
28.0	701.380
28.5	665.791
29.0	629.394
29.5	592.756
30.0	556.440
30.5	520.689
31.0	485.422
31.5	451.366
32.0	418.601
32.5	387.611
33.0	358.881
33.5	332.250
34.0	307.474
34.5	284.797
35.0	264.218
35.5	245.334
36.0	228.225
36.5	212.892
37.0	199.253
37.5	187.067
38.0	176.011
38.5	166.165
39.0	157.530
39.5	149.944
40.0	143.165
40.5	137.274
41.0	132.028
41.5	127.348
42.0	123.151
42.5	119.439
43.0	116.049
43.5	113.063
44.0	110.239
44.5	107.656
45.0	105.235
45.5	102.895
46.0	100.716
46.5	98.537
47.0	96.519
47.5	94.502
48.0	92.484
48.5	90.548
49.0	88.611
49.5	86.674
50.0	84.818
50.5	83.042
51.0	81.186
51.5	79.411
52.0	77.716
52.5	75.941
53.0	74.246
53.5	72.551
54.0	70.856
54.5	69.162

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**CANDELA TABULATION - (Cont.)**

55.0	67.548
55.5	65.933
56.0	64.319
56.5	62.705
57.0	61.091
57.5	59.558
58.0	57.944
58.5	56.411
59.0	54.877
59.5	53.425
60.0	51.891
60.5	50.358
61.0	48.825
61.5	47.372
62.0	45.839
62.5	44.386
63.0	42.933
63.5	41.481
64.0	40.028
64.5	38.576
65.0	37.204
65.5	35.832
66.0	34.460
66.5	33.007
67.0	31.716
67.5	30.425
68.0	29.053
68.5	27.761
69.0	26.470
69.5	25.179
70.0	23.968
70.5	22.677
71.0	21.467
71.5	20.175
72.0	18.965
72.5	17.754
73.0	16.544
73.5	15.333
74.0	14.204
74.5	12.993
75.0	11.863
75.5	10.814
76.0	9.765
76.5	8.958
77.0	8.232
77.5	7.586
78.0	7.102
78.5	6.698
79.0	6.375
79.5	6.053
80.0	5.649
80.5	5.326
81.0	5.004
81.5	4.681
82.0	4.277
82.5	3.954

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CANDELA TABULATION - (Cont.)

83.0	3.712
83.5	3.389
84.0	3.067
84.5	2.744
85.0	2.421
85.5	2.179
86.0	1.856
86.5	1.614
87.0	1.291
87.5	1.049
88.0	0.807
88.5	0.565
89.0	0.323
89.5	0.242
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
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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	529.54	N.A.	40.30
0-30	937.42	N.A.	71.40
0-40	1116.89	N.A.	85.00
0-60	1260.35	N.A.	95.90
0-80	1310.91	N.A.	99.80
0-90	1313.7	N.A.	100.00
10-90	1168.07	N.A.	88.90
20-40	587.35	N.A.	44.70
20-50	670.27	N.A.	51.00
40-70	180.43	N.A.	13.70
60-80	50.56	N.A.	3.80
70-80	13.59	N.A.	1.00
80-90	2.79	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	1313.7	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	145.63
10-20	383.91
20-30	407.88
30-40	179.47
40-50	82.91
50-60	60.54
60-70	36.98
70-80	13.59
80-90	2.79
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	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	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

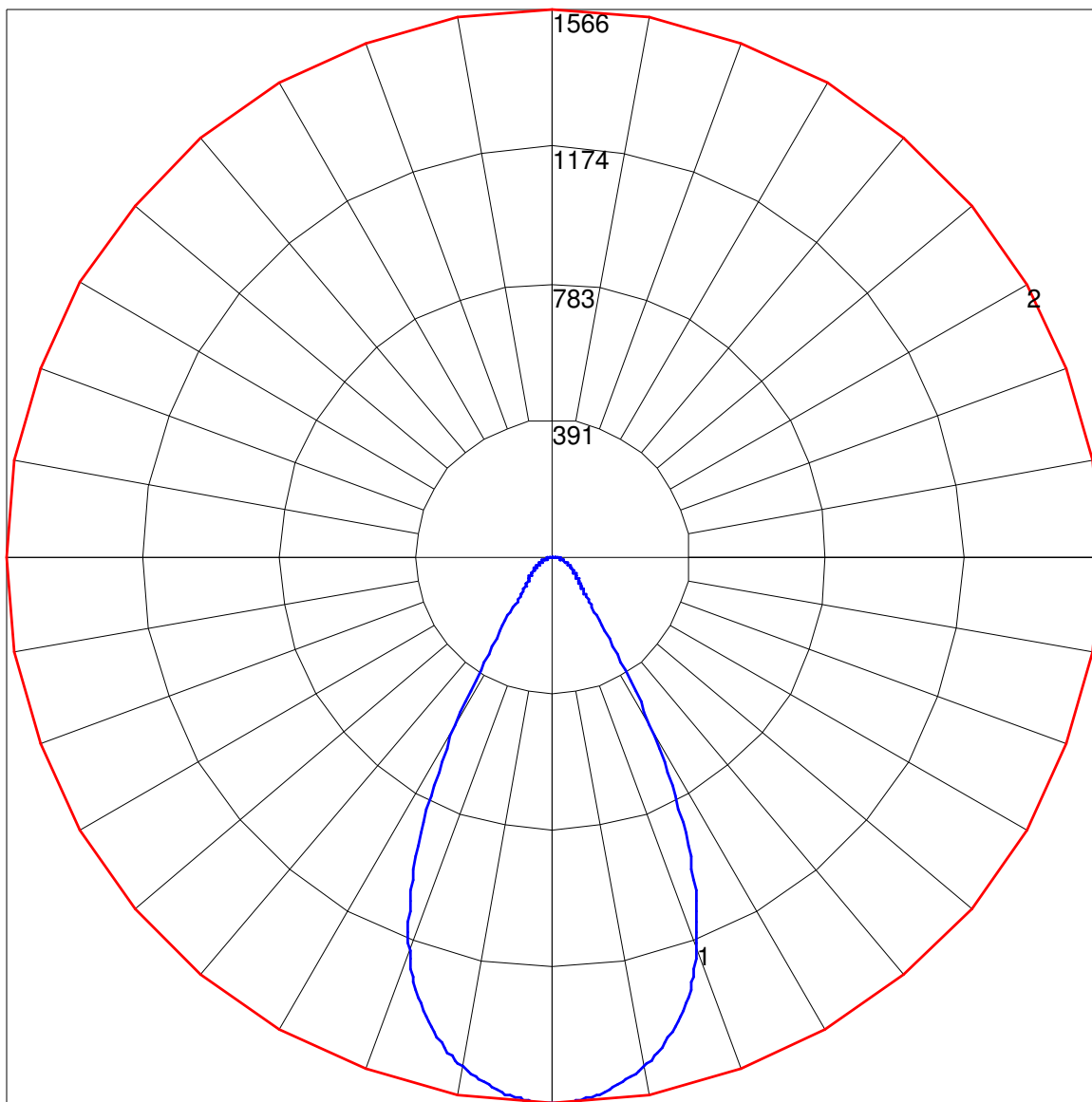
X=2H	Y=2H	19.9	21.0	20.3	21.3	21.6	19.9	21.0	20.3	21.3	21.6
	3H	20.9	21.9	21.3	22.2	22.6	20.9	21.9	21.3	22.2	22.6
	4H	21.1	22.0	21.5	22.4	22.8	21.1	22.0	21.5	22.4	22.8
	6H	21.1	22.0	21.6	22.4	22.7	21.1	22.0	21.6	22.4	22.7
	8H	21.1	21.9	21.6	22.3	22.7	21.1	21.9	21.6	22.3	22.7
	12H	21.1	21.9	21.6	22.3	22.7	21.1	21.9	21.6	22.3	22.7

### UGR Viewed Endwise

4H	2H	20.2	21.1	20.6	21.5	21.9	20.2	21.1	20.6	21.5	21.9
	3H	21.4	22.1	21.8	22.6	23.0	21.4	22.1	21.8	22.6	23.0
	4H	21.6	22.3	22.1	22.7	23.2	21.6	22.3	22.1	22.7	23.2
	6H	21.7	22.3	22.2	22.7	23.2	21.7	22.3	22.2	22.7	23.2
	8H	21.7	22.2	22.2	22.7	23.2	21.7	22.2	22.2	22.7	23.2
	12H	21.7	22.2	22.2	22.7	23.1	21.7	22.2	22.2	22.7	23.1
8H	4H	21.6	22.2	22.1	22.6	23.1	21.6	22.2	22.1	22.6	23.1
	6H	21.8	22.2	22.3	22.7	23.2	21.8	22.2	22.3	22.7	23.2
	8H	21.8	22.2	22.3	22.7	23.2	21.8	22.2	22.3	22.7	23.2
	12H	21.8	22.1	22.3	22.6	23.2	21.8	22.1	22.3	22.6	23.2
12H	4H	21.6	22.0	22.1	22.5	23.0	21.6	22.0	22.1	22.5	23.0
	6H	21.7	22.1	22.3	22.6	23.1	21.7	22.1	22.3	22.6	23.1
	8H	21.8	22.1	22.3	22.6	23.2	21.8	22.1	22.3	22.6	23.2

Maximum UGR = 23.2

POLAR GRAPH



Maximum Candela = 1565.617 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.)