

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L14-930-DIM-UNV-LW-OF\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM 13257153.01

[TESTLAB] UL Verification Services Inc.

[ISSUEDATE] 2025-05-20

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.

[LUMCAT] V2DR-L14-930-DIM-UNV-LW-OF\_

[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, Vandal-Resistant

[\_SEARCH\_MOUNTING] Recessed

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1113
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	64
Total Luminaire Watts	17.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.86
Spacing Criterion (90-270)	0.86
Spacing Criterion (Diagonal)	0.78
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	45913	45913	45913
55	40099	40099	40099
65	34254	34254	34254
75	27636	27636	27636
85	15480	15480	15480

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : V2DR-L14-930-DIM-UNV-LW-OF\_.IES

CANDELA TABULATION

	<u>0</u>
0.0	1313.402
0.5	1312.725
1.0	1312.725
1.5	1312.049
2.0	1311.372
2.5	1309.342
3.0	1307.312
3.5	1305.282
4.0	1302.576
4.5	1299.192
5.0	1295.809
5.5	1292.426
6.0	1289.042
6.5	1284.982
7.0	1280.922
7.5	1276.862
8.0	1272.126
8.5	1267.389
9.0	1261.976
9.5	1256.562
10.0	1250.473
10.5	1243.706
11.0	1236.939
11.5	1229.496
12.0	1222.053
12.5	1213.256
13.0	1204.459
13.5	1194.986
14.0	1184.836
14.5	1174.010
15.0	1162.506
15.5	1149.650
16.0	1136.793
16.5	1122.583
17.0	1107.020
17.5	1091.457
18.0	1073.864
18.5	1055.594
19.0	1035.294
19.5	1013.641
20.0	991.311
20.5	966.951
21.0	941.914
21.5	914.848
22.0	886.428
22.5	857.332
23.0	826.882
23.5	795.755
24.0	763.952
24.5	731.472
25.0	698.316
25.5	665.498
26.0	632.274
26.5	599.388

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : V2DR-L14-930-DIM-UNV-LW-OF\_.IES**

**CANDELA TABULATION - (Cont.)**

27.0	566.976
27.5	535.240
28.0	504.181
28.5	473.867
29.0	444.500
29.5	415.877
30.0	389.013
30.5	363.638
31.0	339.685
31.5	317.355
32.0	296.446
32.5	277.026
33.0	259.229
33.5	242.922
34.0	228.103
34.5	214.570
35.0	202.254
35.5	191.090
36.0	181.007
36.5	172.008
37.0	163.888
37.5	156.647
38.0	150.151
38.5	144.264
39.0	138.987
39.5	134.250
40.0	129.919
40.5	126.062
41.0	122.544
41.5	119.296
42.0	116.318
42.5	113.544
43.0	111.040
43.5	108.740
44.0	106.574
44.5	104.544
45.0	102.582
45.5	100.755
46.0	98.996
46.5	97.304
47.0	95.680
47.5	94.056
48.0	92.500
48.5	90.943
49.0	89.387
49.5	87.898
50.0	86.477
50.5	85.056
51.0	83.568
51.5	82.215
52.0	80.794
52.5	79.440
53.0	78.087
53.5	76.734
54.0	75.380
54.5	74.027

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : V2DR-L14-930-DIM-UNV-LW-OF\_.IES**

**CANDELA TABULATION - (Cont.)**

55.0	72.674
55.5	71.320
56.0	70.035
56.5	68.614
57.0	67.328
57.5	65.975
58.0	64.621
58.5	63.268
59.0	61.915
59.5	60.561
60.0	59.208
60.5	57.855
61.0	56.501
61.5	55.080
62.0	53.795
62.5	52.441
63.0	51.020
63.5	49.667
64.0	48.314
64.5	47.028
65.0	45.742
65.5	44.457
66.0	43.171
66.5	41.953
67.0	40.667
67.5	39.517
68.0	38.299
68.5	37.149
69.0	35.998
69.5	34.780
70.0	33.630
70.5	32.480
71.0	31.397
71.5	30.247
72.0	29.096
72.5	28.014
73.0	26.864
73.5	25.781
74.0	24.766
74.5	23.683
75.0	22.601
75.5	21.586
76.0	20.571
76.5	19.556
77.0	18.608
77.5	17.593
78.0	16.646
78.5	15.699
79.0	14.751
79.5	13.804
80.0	12.924
80.5	11.977
81.0	11.097
81.5	10.218
82.0	9.338
82.5	8.458

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : V2DR-L14-930-DIM-UNV-LW-OF\_.IES

CANDELA TABULATION - (Cont.)

83.0	7.646
83.5	6.767
84.0	5.955
84.5	5.075
85.0	4.263
85.5	3.383
86.0	2.504
86.5	1.895
87.0	1.353
87.5	0.812
88.0	0.541
88.5	0.406
89.0	0.271
89.5	0.203
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

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : V2DR-L14-930-DIM-UNV-LW-OF\_.IES

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

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : V2DR-L14-930-DIM-UNV-LW-OF\_.IES

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

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : V2DR-L14-930-DIM-UNV-LW-OF\_.IES**

**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



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : V2DR-L14-930-DIM-UNV-LW-OF\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	444.03	N.A.	39.90
0-30	757.01	N.A.	68.00
0-40	892.98	N.A.	80.20
0-60	1038.33	N.A.	93.30
0-80	1107.9	N.A.	99.50
0-90	1113.26	N.A.	100.00
10-90	990.97	N.A.	89.00
20-40	448.95	N.A.	40.30
20-50	529.30	N.A.	47.50
40-70	190.82	N.A.	17.10
60-80	69.57	N.A.	6.20
70-80	24.09	N.A.	2.20
80-90	5.36	N.A.	0.50
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	1113.26	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	122.28
10-20	321.75
20-30	312.97
30-40	135.98
40-50	80.35
50-60	65.00
60-70	45.48
70-80	24.09
80-90	5.36
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

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : V2DR-L14-930-DIM-UNV-LW-OF\_.IES**

**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	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76
4	94	86	80	75	93	85	79	75	83	78	74	81	76	73	79	75	72	70
5	89	80	74	69	88	79	73	69	77	72	68	76	71	68	74	70	67	65
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	63	61
7	81	71	64	60	79	70	64	60	69	63	59	67	63	59	66	62	59	57
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54
9	73	63	57	53	72	63	57	53	62	56	52	61	56	52	60	55	52	51
10	70	60	54	50	69	59	54	50	58	53	49	58	53	49	57	52	49	48

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : V2DR-L14-930-DIM-UNV-LW-OF\_.IES**

**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	21.1	22.2	21.4	22.6	22.9	21.1	22.2	21.4	22.6	22.9
	3H	22.6	23.6	23.0	23.9	24.3	22.6	23.6	23.0	23.9	24.3
	4H	23.1	24.1	23.5	24.4	24.8	23.1	24.1	23.5	24.4	24.8
	6H	23.4	24.3	23.8	24.7	25.1	23.4	24.3	23.8	24.7	25.1
	8H	23.5	24.4	23.9	24.8	25.2	23.5	24.4	23.9	24.8	25.2
	12H	23.5	24.4	24.0	24.7	25.2	23.5	24.4	24.0	24.7	25.2

UGR Viewed Endwise

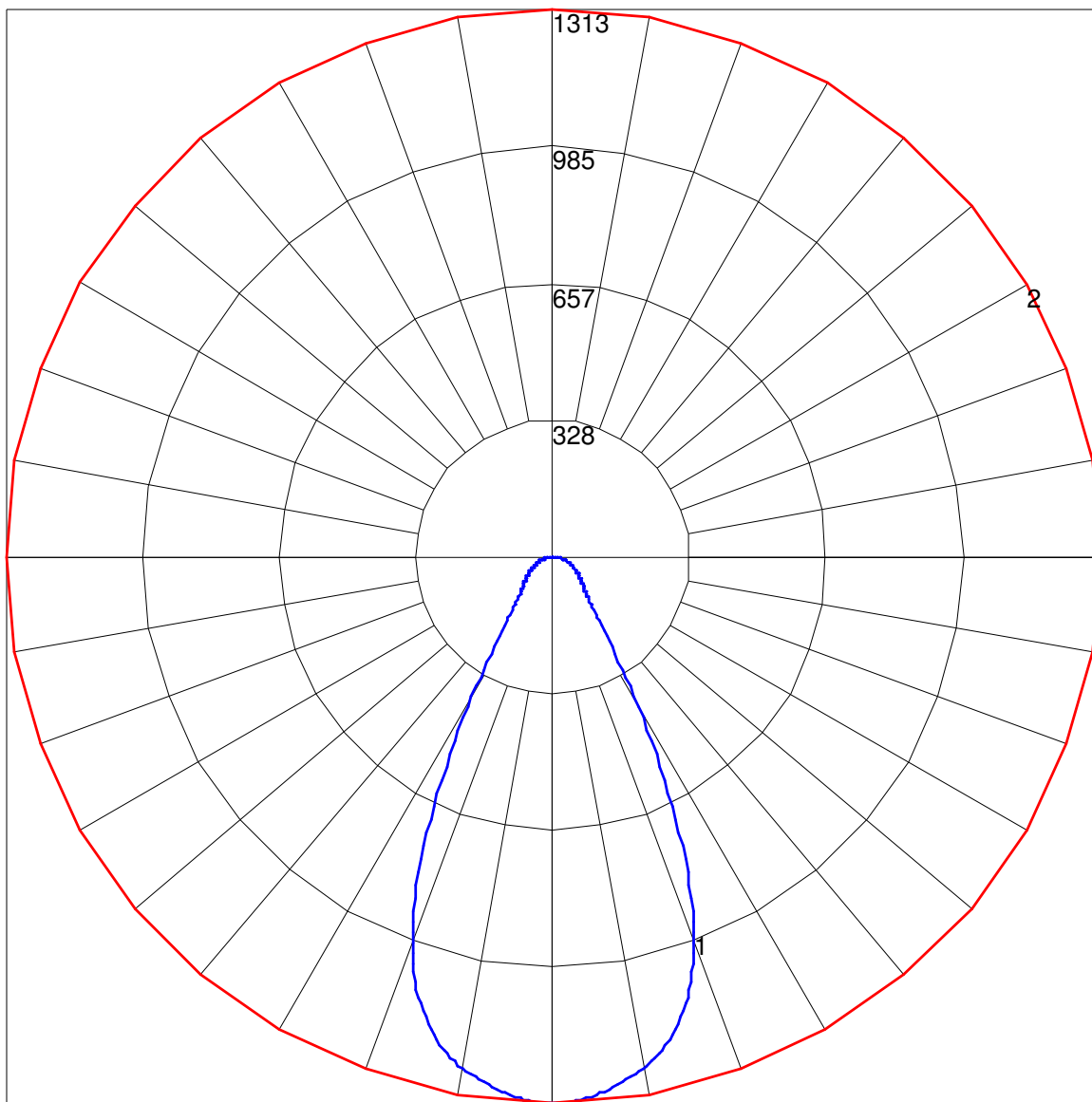
4H	2H	21.6	22.5	22.0	22.9	23.3	21.6	22.5	22.0	22.9	23.3
	3H	23.2	24.0	23.7	24.4	24.9	23.2	24.0	23.7	24.4	24.9
	4H	23.9	24.6	24.3	25.0	25.5	23.9	24.6	24.3	25.0	25.5
	6H	24.3	24.9	24.8	25.4	25.9	24.3	24.9	24.8	25.4	25.9
	8H	24.4	25.0	24.9	25.5	25.9	24.4	25.0	24.9	25.5	25.9
	12H	24.5	25.0	25.0	25.5	26.0	24.5	25.0	25.0	25.5	26.0

8H	4H	24.1	24.6	24.5	25.1	25.6	24.1	24.6	24.5	25.1	25.6
	6H	24.6	25.1	25.1	25.6	26.1	24.6	25.1	25.1	25.6	26.1
	8H	24.8	25.2	25.3	25.7	26.2	24.8	25.2	25.3	25.7	26.2
	12H	24.9	25.3	25.4	25.8	26.3	24.9	25.3	25.4	25.8	26.3

12H	4H	24.0	24.6	24.5	25.0	25.5	24.0	24.6	24.5	25.0	25.5
	6H	24.6	25.1	25.2	25.5	26.1	24.6	25.1	25.2	25.5	26.1
	8H	24.9	25.2	25.4	25.7	26.3	24.9	25.2	25.4	25.7	26.3

Maximum UGR = 26.3

POLAR GRAPH



Maximum Candela = 1313.402 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.)