

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L14-935-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-L14-935-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	1122
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	65
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	40215	40215	40215
55	31822	31822	31822
65	23787	23787	23787
75	12386	12386	12386
85	7506	7506	7506

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V2DR-L14-935-DIM-UNV-RW-OF-WH_.IES

CANDELA TABULATION

	<u>0</u>
0.0	1336.741
0.5	1336.741
1.0	1336.052
1.5	1335.363
2.0	1335.363
2.5	1333.985
3.0	1331.918
3.5	1329.162
4.0	1326.405
4.5	1323.649
5.0	1319.515
5.5	1316.070
6.0	1311.936
6.5	1307.112
7.0	1302.289
7.5	1297.466
8.0	1292.642
8.5	1287.130
9.0	1280.929
9.5	1275.416
10.0	1269.215
10.5	1262.325
11.0	1254.745
11.5	1247.166
12.0	1238.897
12.5	1230.629
13.0	1221.671
13.5	1212.025
14.0	1201.689
14.5	1191.353
15.0	1179.640
15.5	1167.926
16.0	1154.834
16.5	1141.742
17.0	1127.961
17.5	1113.492
18.0	1098.333
18.5	1081.796
19.0	1064.570
19.5	1045.965
20.0	1026.672
20.5	1006.690
21.0	985.330
21.5	963.280
22.0	939.164
22.5	915.048
23.0	889.553
23.5	863.369
24.0	835.808
24.5	808.246
25.0	779.995
25.5	750.367
26.0	720.049
26.5	689.731

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V2DR-L14-935-DIM-UNV-RW-OF-WH_.IES

CANDELA TABULATION - (Cont.)

27.0	659.620
27.5	629.371
28.0	598.846
28.5	568.459
29.0	537.384
29.5	506.101
30.0	475.094
30.5	444.570
31.0	414.459
31.5	385.381
32.0	357.406
32.5	330.947
33.0	306.417
33.5	283.679
34.0	262.525
34.5	243.163
35.0	225.592
35.5	209.469
36.0	194.861
36.5	181.769
37.0	170.124
37.5	159.720
38.0	150.280
38.5	141.874
39.0	134.501
39.5	128.024
40.0	122.236
40.5	117.206
41.0	112.727
41.5	108.731
42.0	105.148
42.5	101.978
43.0	99.084
43.5	96.535
44.0	94.123
44.5	91.918
45.0	89.851
45.5	87.853
46.0	85.992
46.5	84.132
47.0	82.409
47.5	80.687
48.0	78.964
48.5	77.310
49.0	75.657
49.5	74.003
50.0	72.418
50.5	70.902
51.0	69.318
51.5	67.802
52.0	66.355
52.5	64.839
53.0	63.392
53.5	61.945
54.0	60.498
54.5	59.051

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V2DR-L14-935-DIM-UNV-RW-OF-WH_.IES

CANDELA TABULATION - (Cont.)

55.0	57.673
55.5	56.295
56.0	54.917
56.5	53.539
57.0	52.160
57.5	50.851
58.0	49.473
58.5	48.164
59.0	46.855
59.5	45.615
60.0	44.305
60.5	42.996
61.0	41.687
61.5	40.447
62.0	39.138
62.5	37.897
63.0	36.657
63.5	35.417
64.0	34.176
64.5	32.936
65.0	31.765
65.5	30.593
66.0	29.422
66.5	28.182
67.0	27.079
67.5	25.977
68.0	24.806
68.5	23.703
69.0	22.601
69.5	21.498
70.0	20.465
70.5	19.362
71.0	18.329
71.5	17.226
72.0	16.192
72.5	15.159
73.0	14.125
73.5	13.092
74.0	12.127
74.5	11.094
75.0	10.129
75.5	9.233
76.0	8.337
76.5	7.648
77.0	7.028
77.5	6.477
78.0	6.064
78.5	5.719
79.0	5.443
79.5	5.168
80.0	4.823
80.5	4.548
81.0	4.272
81.5	3.996
82.0	3.652
82.5	3.376

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V2DR-L14-935-DIM-UNV-RW-OF-WH_.IES

CANDELA TABULATION - (Cont.)

83.0	3.170
83.5	2.894
84.0	2.618
84.5	2.343
85.0	2.067
85.5	1.860
86.0	1.585
86.5	1.378
87.0	1.102
87.5	0.896
88.0	0.689
88.5	0.482
89.0	0.276
89.5	0.207
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-L14-935-DIM-UNV-RW-OF-WH_.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-L14-935-DIM-UNV-RW-OF-WH_.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-L14-935-DIM-UNV-RW-OF-WH_.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-L14-935-DIM-UNV-RW-OF-WH_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	452.13	N.A.	40.30
0-30	800.38	N.A.	71.40
0-40	953.61	N.A.	85.00
0-60	1076.1	N.A.	95.90
0-80	1119.27	N.A.	99.80
0-90	1121.65	N.A.	100.00
10-90	997.31	N.A.	88.90
20-40	501.49	N.A.	44.70
20-50	572.28	N.A.	51.00
40-70	154.05	N.A.	13.70
60-80	43.17	N.A.	3.80
70-80	11.60	N.A.	1.00
80-90	2.38	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	1121.65	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	124.34
10-20	327.79
20-30	348.26
30-40	153.23
40-50	70.79
50-60	51.69
60-70	31.57
70-80	11.60
80-90	2.38
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-L14-935-DIM-UNV-RW-OF-WH_.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	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	78
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	70	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	54	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

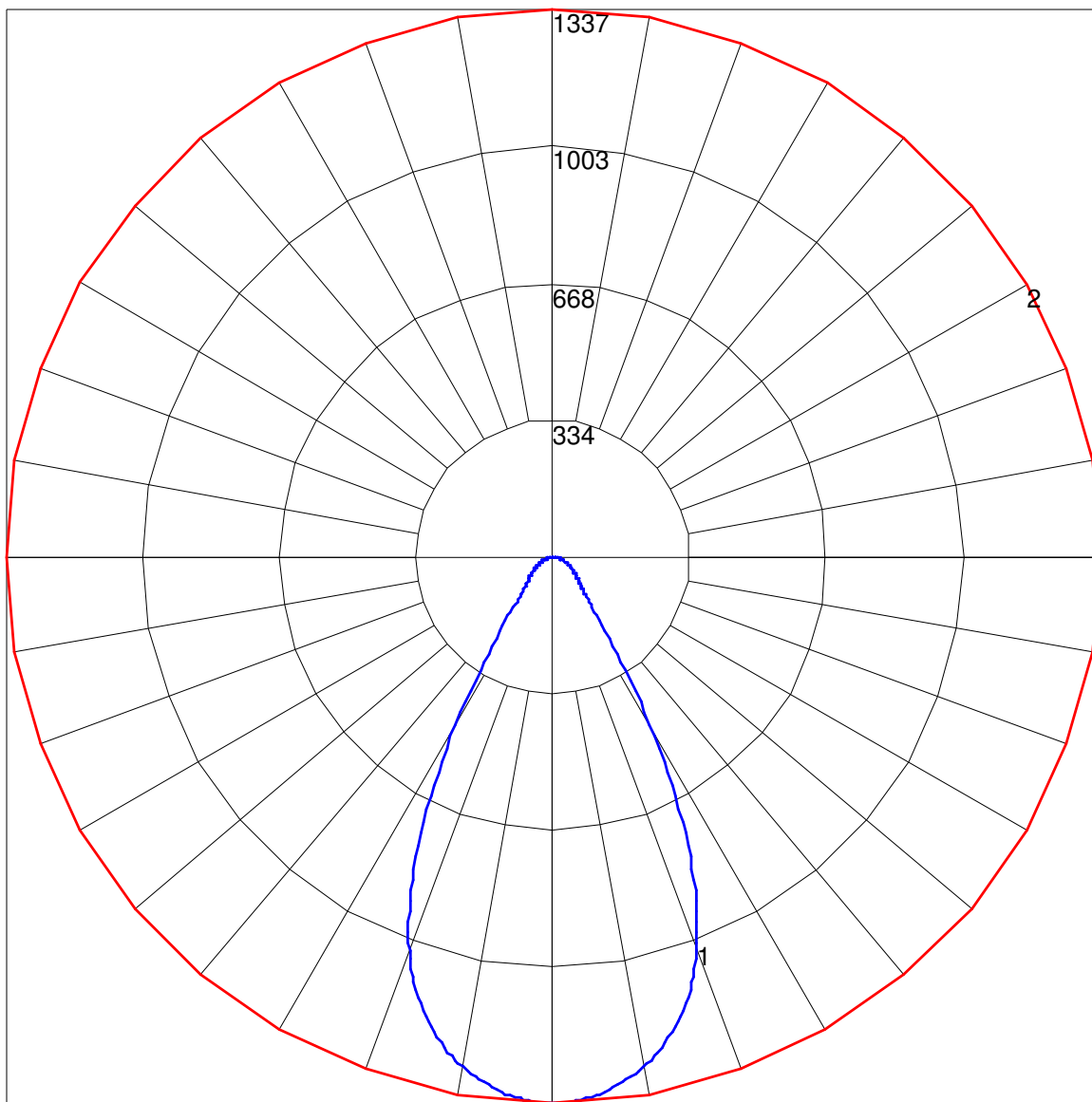
IES INDOOR REPORT
PHOTOMETRIC FILENAME : V2DR-L14-935-DIM-UNV-RW-OF-WH_.IES

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					UGR Viewed Endwise				
X=2H	Y=2H	19.3	20.4	19.7	20.7	21.0	19.3	20.4	19.7	20.7	21.0
	3H	20.3	21.3	20.7	21.6	22.0	20.3	21.3	20.7	21.6	22.0
	4H	20.5	21.4	20.9	21.8	22.2	20.5	21.4	20.9	21.8	22.2
	6H	20.5	21.4	21.0	21.8	22.2	20.5	21.4	21.0	21.8	22.2
	8H	20.5	21.3	21.0	21.7	22.1	20.5	21.3	21.0	21.7	22.1
	12H	20.5	21.3	21.0	21.7	22.1	20.5	21.3	21.0	21.7	22.1
4H	2H	19.6	20.5	20.0	20.9	21.3	19.6	20.5	20.0	20.9	21.3
	3H	20.8	21.5	21.2	22.0	22.4	20.8	21.5	21.2	22.0	22.4
	4H	21.0	21.7	21.5	22.1	22.6	21.0	21.7	21.5	22.1	22.6
	6H	21.1	21.7	21.6	22.1	22.6	21.1	21.7	21.6	22.1	22.6
	8H	21.1	21.6	21.6	22.1	22.6	21.1	21.6	21.6	22.1	22.6
	12H	21.1	21.6	21.6	22.1	22.5	21.1	21.6	21.6	22.1	22.5
8H	4H	21.0	21.6	21.5	22.0	22.5	21.0	21.6	21.5	22.0	22.5
	6H	21.2	21.6	21.7	22.1	22.6	21.2	21.6	21.7	22.1	22.6
	8H	21.2	21.6	21.7	22.1	22.6	21.2	21.6	21.7	22.1	22.6
	12H	21.2	21.5	21.7	22.0	22.6	21.2	21.5	21.7	22.0	22.6
12H	4H	21.0	21.4	21.5	21.9	22.4	21.0	21.4	21.5	21.9	22.4
	6H	21.1	21.5	21.7	22.0	22.5	21.1	21.5	21.7	22.0	22.5
	8H	21.2	21.5	21.7	22.0	22.6	21.2	21.5	21.7	22.0	22.6

Maximum UGR = 22.6

POLAR GRAPH



Maximum Candela = 1336.741 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.)