

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L14-935-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-L14-935-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	1156
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	67
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	47656	47656	47656
55	41621	41621	41621
65	35555	35555	35555
75	28685	28685	28685
85	16068	16068	16068

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V2DR-L14-935-DIM-UNV-LW-OF_.IES

CANDELA TABULATION

	<u>0</u>
0.0	1363.278
0.5	1362.576
1.0	1362.576
1.5	1361.874
2.0	1361.171
2.5	1359.064
3.0	1356.957
3.5	1354.850
4.0	1352.041
4.5	1348.529
5.0	1345.017
5.5	1341.505
6.0	1337.993
6.5	1333.779
7.0	1329.565
7.5	1325.351
8.0	1320.434
8.5	1315.518
9.0	1309.899
9.5	1304.280
10.0	1297.959
10.5	1290.935
11.0	1283.912
11.5	1276.186
12.0	1268.460
12.5	1259.329
13.0	1250.199
13.5	1240.366
14.0	1229.830
14.5	1218.592
15.0	1206.652
15.5	1193.307
16.0	1179.963
16.5	1165.213
17.0	1149.059
17.5	1132.905
18.0	1114.643
18.5	1095.680
19.0	1074.609
19.5	1052.133
20.0	1028.956
20.5	1003.671
21.0	977.683
21.5	949.589
22.0	920.090
22.5	889.889
23.0	858.282
23.5	825.974
24.0	792.963
24.5	759.250
25.0	724.834
25.5	690.770
26.0	656.284
26.5	622.149

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V2DR-L14-935-DIM-UNV-LW-OF_.IES

CANDELA TABULATION - (Cont.)

27.0	588.506
27.5	555.566
28.0	523.327
28.5	491.862
29.0	461.379
29.5	431.670
30.0	403.786
30.5	377.448
31.0	352.584
31.5	329.406
32.0	307.703
32.5	287.546
33.0	269.074
33.5	252.147
34.0	236.765
34.5	222.718
35.0	209.935
35.5	198.346
36.0	187.881
36.5	178.540
37.0	170.111
37.5	162.596
38.0	155.853
38.5	149.743
39.0	144.264
39.5	139.348
40.0	134.853
40.5	130.849
41.0	127.197
41.5	123.826
42.0	120.735
42.5	117.856
43.0	115.257
43.5	112.869
44.0	110.621
44.5	108.514
45.0	106.478
45.5	104.581
46.0	102.755
46.5	100.999
47.0	99.314
47.5	97.628
48.0	96.012
48.5	94.397
49.0	92.782
49.5	91.236
50.0	89.761
50.5	88.286
51.0	86.741
51.5	85.337
52.0	83.862
52.5	82.457
53.0	81.052
53.5	79.647
54.0	78.243
54.5	76.838

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V2DR-L14-935-DIM-UNV-LW-OF_.IES

CANDELA TABULATION - (Cont.)

55.0	75.433
55.5	74.029
56.0	72.694
56.5	71.219
57.0	69.885
57.5	68.480
58.0	67.075
58.5	65.671
59.0	64.266
59.5	62.861
60.0	61.456
60.5	60.052
61.0	58.647
61.5	57.172
62.0	55.838
62.5	54.433
63.0	52.958
63.5	51.553
64.0	50.148
64.5	48.814
65.0	47.479
65.5	46.145
66.0	44.810
66.5	43.546
67.0	42.212
67.5	41.018
68.0	39.754
68.5	38.559
69.0	37.365
69.5	36.101
70.0	34.907
70.5	33.713
71.0	32.589
71.5	31.395
72.0	30.201
72.5	29.078
73.0	27.884
73.5	26.760
74.0	25.706
74.5	24.583
75.0	23.459
75.5	22.405
76.0	21.352
76.5	20.298
77.0	19.315
77.5	18.261
78.0	17.278
78.5	16.295
79.0	15.311
79.5	14.328
80.0	13.415
80.5	12.432
81.0	11.519
81.5	10.606
82.0	9.693
82.5	8.779

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V2DR-L14-935-DIM-UNV-LW-OF_.IES

CANDELA TABULATION - (Cont.)

83.0	7.937
83.5	7.024
84.0	6.181
84.5	5.268
85.0	4.425
85.5	3.512
86.0	2.599
86.5	1.967
87.0	1.405
87.5	0.843
88.0	0.562
88.5	0.421
89.0	0.281
89.5	0.211
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-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-L14-935-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-L14-935-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-L14-935-DIM-UNV-LW-OF_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	460.89	N.A.	39.90
0-30	785.75	N.A.	68.00
0-40	926.89	N.A.	80.20
0-60	1077.76	N.A.	93.30
0-80	1149.97	N.A.	99.50
0-90	1155.53	N.A.	100.00
10-90	1028.6	N.A.	89.00
20-40	466.00	N.A.	40.30
20-50	549.40	N.A.	47.50
40-70	198.07	N.A.	17.10
60-80	72.21	N.A.	6.20
70-80	25.00	N.A.	2.20
80-90	5.56	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	1155.53	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	126.93
10-20	333.97
20-30	324.86
30-40	141.14
40-50	83.40
50-60	67.46
60-70	47.21
70-80	25.00
80-90	5.56
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-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	97	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	62	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	62	57	53	62	56	52	61	56	52	60	55	52	51
10	70	60	54	50	69	59	53	50	58	53	49	58	53	49	57	52	49	48

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V2DR-L14-935-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

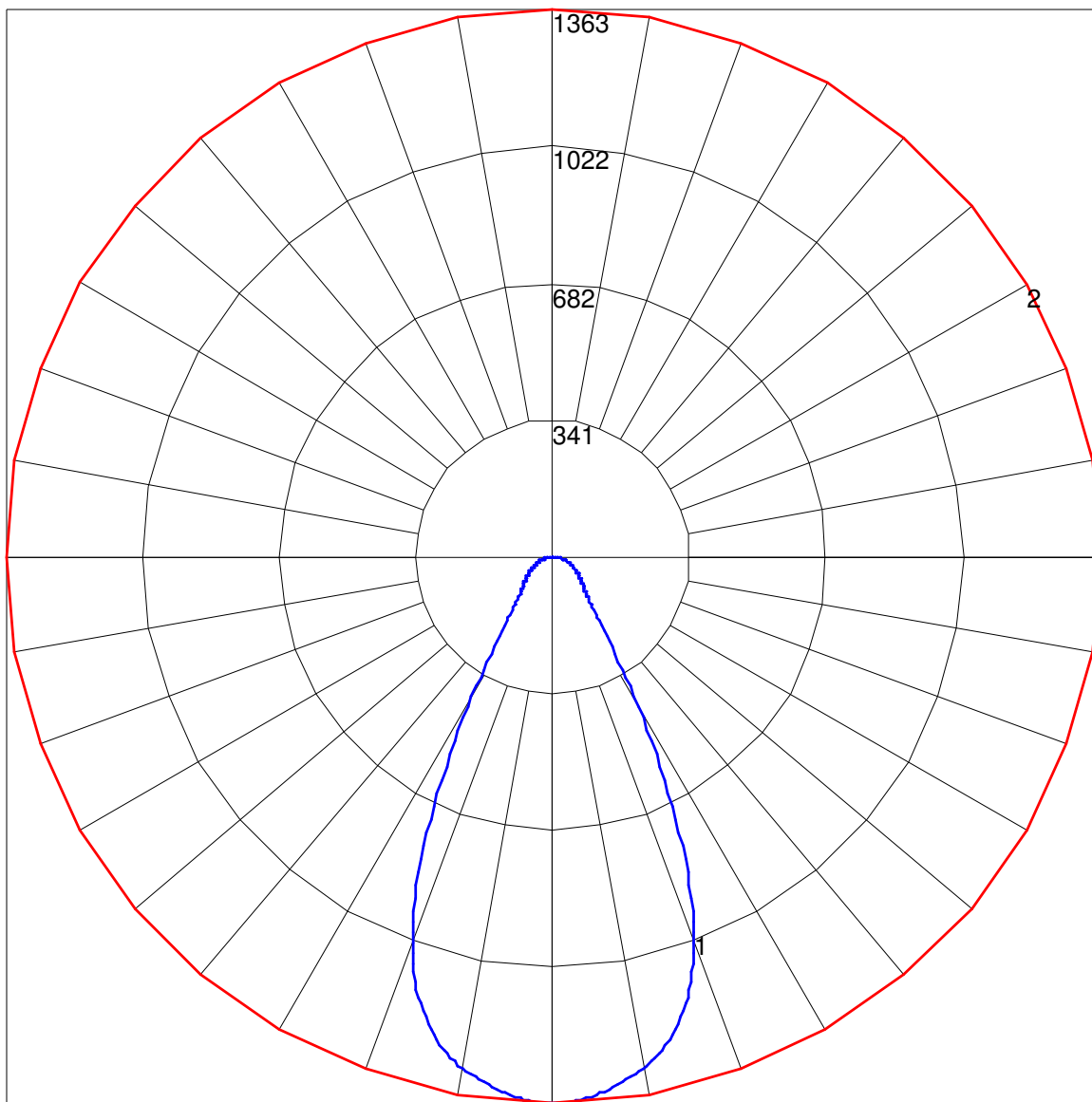
X=2H	Y=2H	21.2	22.3	21.5	22.7	23.0	21.2	22.3	21.5	22.7	23.0
	3H	22.7	23.7	23.1	24.0	24.4	22.7	23.7	23.1	24.0	24.4
	4H	23.2	24.2	23.6	24.5	24.9	23.2	24.2	23.6	24.5	24.9
	6H	23.5	24.4	23.9	24.8	25.2	23.5	24.4	23.9	24.8	25.2
	8H	23.6	24.5	24.0	24.9	25.3	23.6	24.5	24.0	24.9	25.3
	12H	23.6	24.5	24.1	24.8	25.3	23.6	24.5	24.1	24.8	25.3

UGR Viewed Endwise

4H	2H	21.7	22.6	22.1	23.0	23.4	21.7	22.6	22.1	23.0	23.4
	3H	23.3	24.1	23.7	24.5	24.9	23.3	24.1	23.7	24.5	24.9
	4H	24.0	24.7	24.4	25.1	25.6	24.0	24.7	24.4	25.1	25.6
	6H	24.4	25.0	24.9	25.5	26.0	24.4	25.0	24.9	25.5	26.0
	8H	24.5	25.1	25.0	25.6	26.0	24.5	25.1	25.0	25.6	26.0
	12H	24.6	25.1	25.1	25.6	26.1	24.6	25.1	25.1	25.6	26.1
8H	4H	24.2	24.7	24.6	25.2	25.7	24.2	24.7	24.6	25.2	25.7
	6H	24.7	25.2	25.2	25.7	26.2	24.7	25.2	25.2	25.7	26.2
	8H	24.9	25.3	25.4	25.8	26.3	24.9	25.3	25.4	25.8	26.3
	12H	25.0	25.4	25.5	25.9	26.4	25.0	25.4	25.5	25.9	26.4
12H	4H	24.1	24.7	24.6	25.1	25.6	24.1	24.7	24.6	25.1	25.6
	6H	24.7	25.2	25.3	25.6	26.2	24.7	25.2	25.3	25.6	26.2
	8H	25.0	25.3	25.5	25.8	26.4	25.0	25.3	25.5	25.8	26.4

Maximum UGR = 26.4

POLAR GRAPH



Maximum Candela = 1363.278 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.)