

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L5-935-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-L5-935-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	414
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	62
Total Luminaire Watts	6.7
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	17081	17081	17081
55	14918	14918	14918
65	12743	12743	12743
75	10281	10281	10281
85	5759	5759	5759

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V2DR-L5-935-DIM-UNV-LW-OF_.IES

CANDELA TABULATION

	<u>0</u>
0.0	488.613
0.5	488.361
1.0	488.361
1.5	488.109
2.0	487.858
2.5	487.102
3.0	486.347
3.5	485.592
4.0	484.585
4.5	483.326
5.0	482.068
5.5	480.809
6.0	479.550
6.5	478.040
7.0	476.530
7.5	475.019
8.0	473.257
8.5	471.495
9.0	469.481
9.5	467.467
10.0	465.202
10.5	462.684
11.0	460.167
11.5	457.398
12.0	454.629
12.5	451.356
13.0	448.084
13.5	444.560
14.0	440.784
14.5	436.756
15.0	432.476
15.5	427.694
16.0	422.911
16.5	417.624
17.0	411.834
17.5	406.045
18.0	399.499
18.5	392.703
19.0	385.151
19.5	377.095
20.0	368.788
20.5	359.726
21.0	350.412
21.5	340.342
22.0	329.770
22.5	318.945
23.0	307.617
23.5	296.037
24.0	284.206
24.5	272.123
25.0	259.788
25.5	247.579
26.0	235.219
26.5	222.985

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V2DR-L5-935-DIM-UNV-LW-OF_.IES

CANDELA TABULATION - (Cont.)

27.0	210.927
27.5	199.120
28.0	187.566
28.5	176.288
29.0	165.363
29.5	154.715
30.0	144.721
30.5	135.281
31.0	126.370
31.5	118.063
32.0	110.284
32.5	103.059
33.0	96.439
33.5	90.372
34.0	84.859
34.5	79.824
35.0	75.243
35.5	71.089
36.0	67.338
36.5	63.990
37.0	60.970
37.5	58.276
38.0	55.859
38.5	53.669
39.0	51.706
39.5	49.944
40.0	48.333
40.5	46.898
41.0	45.589
41.5	44.380
42.0	43.273
42.5	42.241
43.0	41.309
43.5	40.453
44.0	39.648
44.5	38.893
45.0	38.163
45.5	37.483
46.0	36.828
46.5	36.199
47.0	35.595
47.5	34.991
48.0	34.412
48.5	33.833
49.0	33.254
49.5	32.700
50.0	32.171
50.5	31.643
51.0	31.089
51.5	30.585
52.0	30.057
52.5	29.553
53.0	29.050
53.5	28.546
54.0	28.043
54.5	27.540

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V2DR-L5-935-DIM-UNV-LW-OF_.IES

CANDELA TABULATION - (Cont.)

55.0	27.036
55.5	26.533
56.0	26.054
56.5	25.526
57.0	25.047
57.5	24.544
58.0	24.040
58.5	23.537
59.0	23.034
59.5	22.530
60.0	22.027
60.5	21.523
61.0	21.020
61.5	20.491
62.0	20.013
62.5	19.509
63.0	18.981
63.5	18.477
64.0	17.974
64.5	17.495
65.0	17.017
65.5	16.539
66.0	16.061
66.5	15.607
67.0	15.129
67.5	14.701
68.0	14.248
68.5	13.820
69.0	13.392
69.5	12.939
70.0	12.511
70.5	12.083
71.0	11.680
71.5	11.252
72.0	10.824
72.5	10.422
73.0	9.994
73.5	9.591
74.0	9.213
74.5	8.811
75.0	8.408
75.5	8.030
76.0	7.653
76.5	7.275
77.0	6.923
77.5	6.545
78.0	6.193
78.5	5.840
79.0	5.488
79.5	5.135
80.0	4.808
80.5	4.456
81.0	4.128
81.5	3.801
82.0	3.474
82.5	3.147

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V2DR-L5-935-DIM-UNV-LW-OF_.IES

CANDELA TABULATION - (Cont.)

83.0	2.845
83.5	2.517
84.0	2.215
84.5	1.888
85.0	1.586
85.5	1.259
86.0	0.931
86.5	0.705
87.0	0.503
87.5	0.302
88.0	0.201
88.5	0.151
89.0	0.101
89.5	0.076
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-L5-935-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-L5-935-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-L5-935-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-L5-935-DIM-UNV-LW-OF_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	165.19	N.A.	39.90
0-30	281.62	N.A.	68.00
0-40	332.21	N.A.	80.20
0-60	386.28	N.A.	93.30
0-80	412.16	N.A.	99.50
0-90	414.15	N.A.	100.00
10-90	368.66	N.A.	89.00
20-40	167.02	N.A.	40.30
20-50	196.91	N.A.	47.50
40-70	70.99	N.A.	17.10
60-80	25.88	N.A.	6.20
70-80	8.96	N.A.	2.20
80-90	1.99	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	414.15	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	45.49
10-20	119.70
20-30	116.43
30-40	50.59
40-50	29.89
50-60	24.18
60-70	16.92
70-80	8.96
80-90	1.99
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-L5-935-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	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

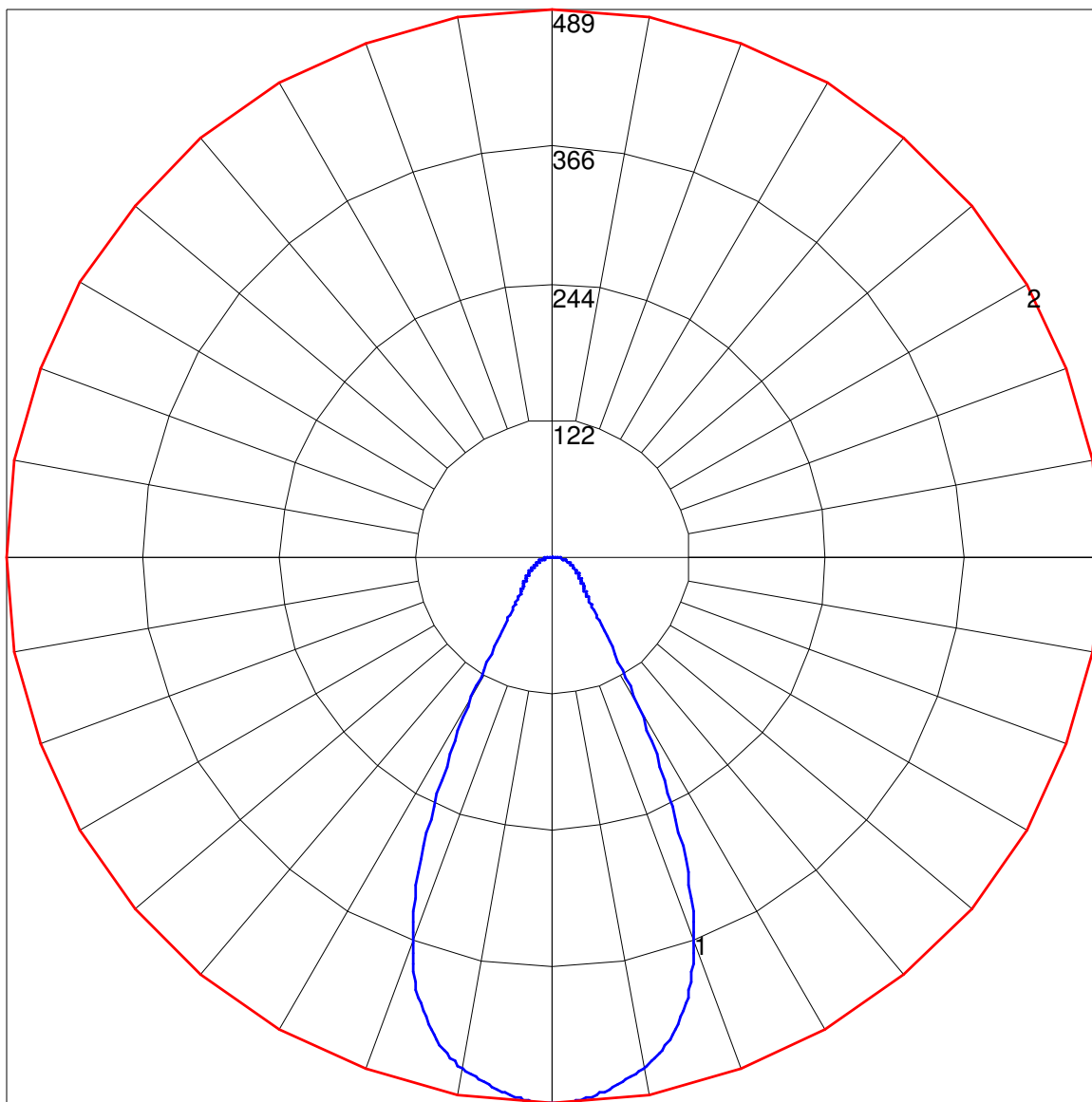
IES INDOOR REPORT
PHOTOMETRIC FILENAME : V2DR-L5-935-DIM-UNV-LW-OF_.IES

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					UGR Viewed Endwise				
X=2H	Y=2H	17.7	18.9	18.0	19.2	19.5	17.7	18.9	18.0	19.2	19.5
	3H	19.2	20.2	19.6	20.6	20.9	19.2	20.2	19.6	20.6	20.9
	4H	19.7	20.7	20.1	21.0	21.4	19.7	20.7	20.1	21.0	21.4
	6H	20.1	20.9	20.5	21.3	21.7	20.1	20.9	20.5	21.3	21.7
	8H	20.1	21.0	20.6	21.4	21.8	20.1	21.0	20.6	21.4	21.8
	12H	20.2	21.0	20.6	21.3	21.8	20.2	21.0	20.6	21.3	21.8
4H	2H	18.2	19.1	18.6	19.5	19.9	18.2	19.1	18.6	19.5	19.9
	3H	19.8	20.6	20.3	21.1	21.5	19.8	20.6	20.3	21.1	21.5
	4H	20.5	21.2	20.9	21.6	22.1	20.5	21.2	20.9	21.6	22.1
	6H	20.9	21.6	21.4	22.0	22.5	20.9	21.6	21.4	22.0	22.5
	8H	21.1	21.6	21.5	22.1	22.5	21.1	21.6	21.5	22.1	22.5
	12H	21.1	21.6	21.6	22.1	22.6	21.1	21.6	21.6	22.1	22.6
8H	4H	20.7	21.2	21.1	21.7	22.2	20.7	21.2	21.1	21.7	22.2
	6H	21.2	21.7	21.7	22.2	22.7	21.2	21.7	21.7	22.2	22.7
	8H	21.4	21.8	21.9	22.3	22.8	21.4	21.8	21.9	22.3	22.8
	12H	21.5	21.9	22.0	22.4	22.9	21.5	21.9	22.0	22.4	22.9
12H	4H	20.7	21.2	21.1	21.6	22.1	20.7	21.2	21.1	21.6	22.1
	6H	21.2	21.7	21.8	22.1	22.7	21.2	21.7	21.8	22.1	22.7
	8H	21.5	21.8	22.0	22.3	22.9	21.5	21.8	22.0	22.3	22.9

Maximum UGR = 22.9

POLAR GRAPH



Maximum Candela = 488.613 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.)