

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L5-950-DIM-UNV-RW-OF-BL_.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-L5-950-DIM-UNV-RW-OF-BL_
[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	341
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	51
Total Luminaire Watts	6.7
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	12212	12212	12212
55	9664	9664	9664
65	7223	7223	7223
75	3761	3761	3761
85	2280	2280	2280

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V2DR-L5-950-DIM-UNV-RW-OF-BL_.IES

CANDELA TABULATION

	<u>0</u>
0.0	405.932
0.5	405.932
1.0	405.723
1.5	405.513
2.0	405.513
2.5	405.095
3.0	404.467
3.5	403.630
4.0	402.793
4.5	401.956
5.0	400.701
5.5	399.654
6.0	398.399
6.5	396.934
7.0	395.470
7.5	394.005
8.0	392.540
8.5	390.866
9.0	388.983
9.5	387.309
10.0	385.426
10.5	383.334
11.0	381.032
11.5	378.730
12.0	376.219
12.5	373.708
13.0	370.988
13.5	368.059
14.0	364.920
14.5	361.781
15.0	358.224
15.5	354.667
16.0	350.692
16.5	346.716
17.0	342.531
17.5	338.137
18.0	333.534
18.5	328.512
19.0	323.281
19.5	317.631
20.0	311.772
20.5	305.704
21.0	299.218
21.5	292.522
22.0	285.198
22.5	277.875
23.0	270.133
23.5	262.182
24.0	253.812
24.5	245.442
25.0	236.863
25.5	227.866
26.0	218.659
26.5	209.452

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V2DR-L5-950-DIM-UNV-RW-OF-BL_.IES

CANDELA TABULATION - (Cont.)

27.0	200.309
27.5	191.123
28.0	181.853
28.5	172.626
29.0	163.189
29.5	153.689
30.0	144.273
30.5	135.004
31.0	125.860
31.5	117.030
32.0	108.534
32.5	100.500
33.0	93.050
33.5	86.145
34.0	79.722
34.5	73.842
35.0	68.506
35.5	63.610
36.0	59.174
36.5	55.198
37.0	51.662
37.5	48.503
38.0	45.636
38.5	43.083
39.0	40.844
39.5	38.877
40.0	37.120
40.5	35.592
41.0	34.232
41.5	33.019
42.0	31.931
42.5	30.968
43.0	30.089
43.5	29.315
44.0	28.583
44.5	27.913
45.0	27.285
45.5	26.679
46.0	26.114
46.5	25.549
47.0	25.025
47.5	24.502
48.0	23.979
48.5	23.477
49.0	22.975
49.5	22.473
50.0	21.991
50.5	21.531
51.0	21.050
51.5	20.590
52.0	20.150
52.5	19.690
53.0	19.250
53.5	18.811
54.0	18.372
54.5	17.932

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V2DR-L5-950-DIM-UNV-RW-OF-BL_.IES

CANDELA TABULATION - (Cont.)

55.0	17.514
55.5	17.095
56.0	16.677
56.5	16.258
57.0	15.840
57.5	15.442
58.0	15.024
58.5	14.626
59.0	14.229
59.5	13.852
60.0	13.454
60.5	13.057
61.0	12.659
61.5	12.283
62.0	11.885
62.5	11.508
63.0	11.132
63.5	10.755
64.0	10.378
64.5	10.002
65.0	9.646
65.5	9.290
66.0	8.935
66.5	8.558
67.0	8.223
67.5	7.888
68.0	7.533
68.5	7.198
69.0	6.863
69.5	6.528
70.0	6.215
70.5	5.880
71.0	5.566
71.5	5.231
72.0	4.917
72.5	4.603
73.0	4.289
73.5	3.976
74.0	3.683
74.5	3.369
75.0	3.076
75.5	2.804
76.0	2.532
76.5	2.323
77.0	2.134
77.5	1.967
78.0	1.841
78.5	1.737
79.0	1.653
79.5	1.569
80.0	1.465
80.5	1.381
81.0	1.297
81.5	1.214
82.0	1.109
82.5	1.025

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V2DR-L5-950-DIM-UNV-RW-OF-BL_.IES

CANDELA TABULATION - (Cont.)

83.0	0.963
83.5	0.879
84.0	0.795
84.5	0.711
85.0	0.628
85.5	0.565
86.0	0.481
86.5	0.418
87.0	0.335
87.5	0.272
88.0	0.209
88.5	0.146
89.0	0.084
89.5	0.063
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-L5-950-DIM-UNV-RW-OF-BL_.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-L5-950-DIM-UNV-RW-OF-BL_.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-L5-950-DIM-UNV-RW-OF-BL_.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-L5-950-DIM-UNV-RW-OF-BL_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	137.30	N.A.	40.30
0-30	243.05	N.A.	71.40
0-40	289.59	N.A.	85.00
0-60	326.78	N.A.	95.90
0-80	339.89	N.A.	99.80
0-90	340.62	N.A.	100.00
10-90	302.86	N.A.	88.90
20-40	152.29	N.A.	44.70
20-50	173.79	N.A.	51.00
40-70	46.78	N.A.	13.70
60-80	13.11	N.A.	3.80
70-80	3.52	N.A.	1.00
80-90	0.72	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	340.62	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	37.76
10-20	99.54
20-30	105.76
30-40	46.53
40-50	21.50
50-60	15.70
60-70	9.59
70-80	3.52
80-90	0.72
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-L5-950-DIM-UNV-RW-OF-BL_.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	96	95	94	92
2	107	102	97	94	105	100	96	92	97	93	90	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	77	94	87	81	77	84	80	76	82	78	75	80	77	74	73
5	91	82	76	71	89	81	75	71	79	74	70	78	73	70	76	72	69	68
6	86	77	71	66	85	76	70	66	75	69	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	74	65	59	55	73	64	58	54	63	58	54	62	57	54	61	57	54	53
10	71	61	55	51	70	61	55	51	60	55	51	59	54	51	58	54	51	50

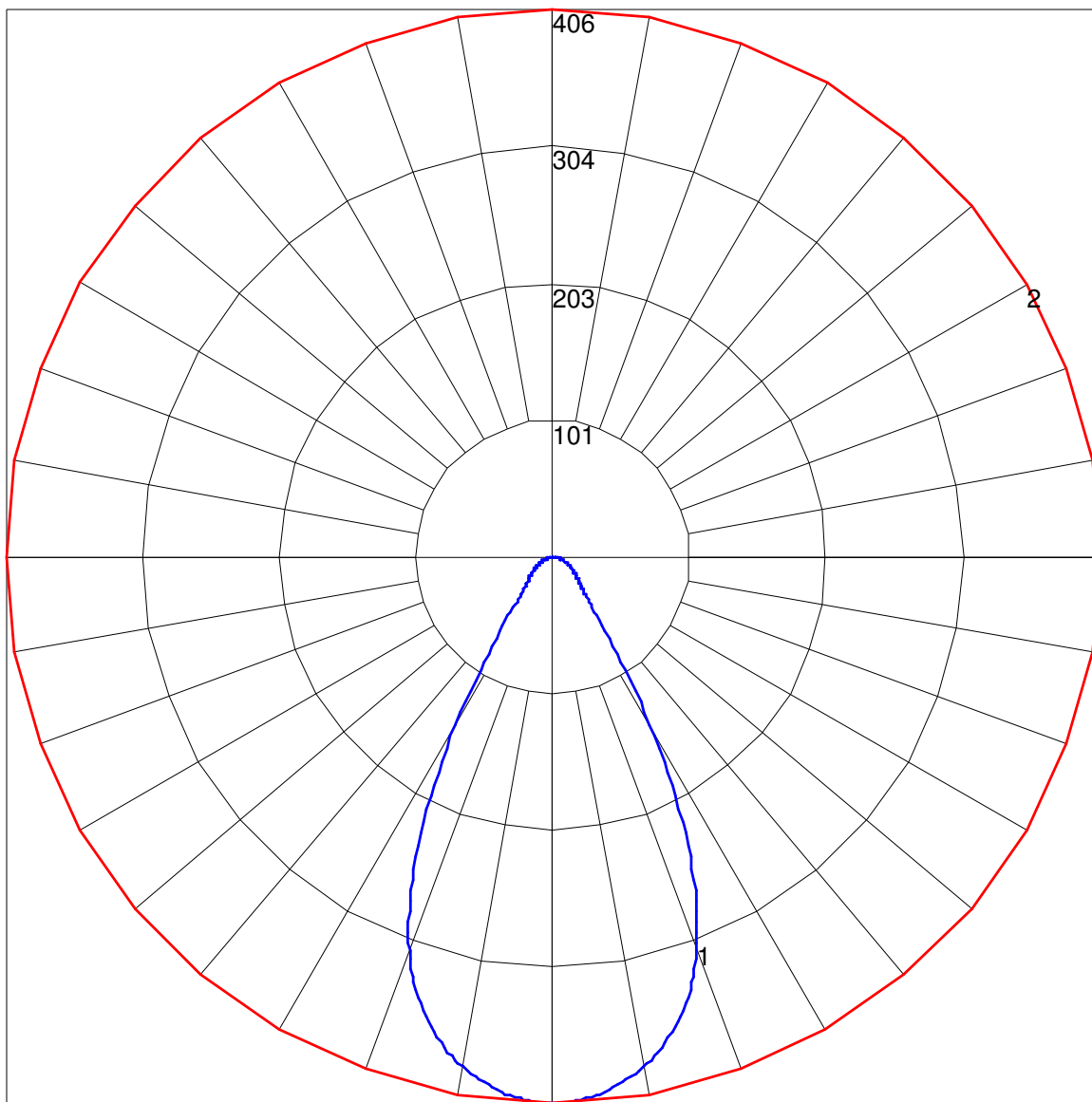
IES INDOOR REPORT
PHOTOMETRIC FILENAME : V2DR-L5-950-DIM-UNV-RW-OF-BL_.IES

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	15.2	16.3	15.6	16.6	16.9	15.2	16.3	15.6	16.6	16.9
	3H	16.2	17.2	16.6	17.5	17.9	16.2	17.2	16.6	17.5	17.9
	4H	16.4	17.3	16.8	17.7	18.1	16.4	17.3	16.8	17.7	18.1
	6H	16.5	17.3	16.9	17.7	18.1	16.5	17.3	16.9	17.7	18.1
	8H	16.5	17.2	16.9	17.6	18.0	16.5	17.2	16.9	17.6	18.0
	12H	16.4	17.2	16.9	17.6	18.0	16.4	17.2	16.9	17.6	18.0
4H	2H	15.5	16.4	15.9	16.8	17.2	15.5	16.4	15.9	16.8	17.2
	3H	16.7	17.5	17.1	17.9	18.3	16.7	17.5	17.1	17.9	18.3
	4H	16.9	17.6	17.4	18.0	18.5	16.9	17.6	17.4	18.0	18.5
	6H	17.0	17.6	17.5	18.0	18.5	17.0	17.6	17.5	18.0	18.5
	8H	17.0	17.6	17.5	18.0	18.5	17.0	17.6	17.5	18.0	18.5
	12H	17.0	17.5	17.5	18.0	18.4	17.0	17.5	17.5	18.0	18.4
8H	4H	16.9	17.5	17.4	17.9	18.4	16.9	17.5	17.4	17.9	18.4
	6H	17.1	17.5	17.6	18.0	18.5	17.1	17.5	17.6	18.0	18.5
	8H	17.1	17.5	17.6	18.0	18.5	17.1	17.5	17.6	18.0	18.5
	12H	17.1	17.5	17.6	18.0	18.5	17.1	17.5	17.6	18.0	18.5
12H	4H	16.9	17.4	17.4	17.8	18.3	16.9	17.4	17.4	17.8	18.3
	6H	17.0	17.4	17.6	17.9	18.4	17.0	17.4	17.6	17.9	18.4
	8H	17.1	17.4	17.6	17.9	18.5	17.1	17.4	17.6	17.9	18.5

Maximum UGR = 18.5

POLAR GRAPH



Maximum Candela = 405.932 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.)