



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : V6DR-L7-9DW-DIM-UNV-LN-OF-WH\_3000K.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #12326812.10

[TESTLAB] UL Verification Services Inc.

[ISSUEDATE] 16 SEP 2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMCAT] V6DR-L7-9DW-DIM-UNV-LN-OF-WH 3000k

[LUMINAIRE] Black formed aluminum housing, white reflector, clear plas

[MORE] tic optic, clear glass patterned lens enclosure

[LAMP] One white LED

[ SEARCH\_SOURCETYPE] LED

[ SEARCH\_APPLICATION] Indoor, Architectural, Classroom, Commercial, Healthcare, Office, Downlight

[ SEARCH\_MOUNTING] Recessed

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	738
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	53
Total Luminaire Watts	14
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.44
Spacing Criterion (90-270)	0.44
Spacing Criterion (Diagonal)	0.44
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.46 ft (Diameter)
Luminous Width (90-270)	0.46 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	2776	2776	2776
55	2031	2031	2031
65	1651	1651	1651
75	1348	1348	1348
85	873	873	873

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CANDELA TABULATION

	<u>0</u>
0.0	2760.264
0.5	2757.852
1.0	2749.813
1.5	2735.745
2.0	2716.450
2.5	2691.931
3.0	2662.588
3.5	2628.019
4.0	2588.627
4.5	2545.215
5.0	2498.186
5.5	2446.735
6.0	2391.264
6.5	2332.176
7.0	2269.470
7.5	2203.549
8.0	2134.009
8.5	2062.460
9.0	1989.304
9.5	1913.735
10.0	1837.362
10.5	1759.784
11.0	1681.000
11.5	1601.813
12.0	1522.627
12.5	1444.245
13.0	1366.666
13.5	1290.294
14.0	1215.529
14.5	1142.774
15.0	1072.833
15.5	1005.706
16.0	941.794
16.5	881.098
17.0	823.216
17.5	768.147
18.0	716.294
18.5	668.059
19.0	622.637
19.5	580.431
20.0	540.235
20.5	502.049
21.0	466.676
21.5	433.716
22.0	402.363
22.5	373.301
23.0	346.048
23.5	320.805
24.0	297.170
24.5	275.263
25.0	255.004
25.5	236.232
26.0	218.868
26.5	202.870

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CANDELA TABULATION - (Cont.)

27.0	188.198
27.5	174.692
28.0	162.312
28.5	151.017
29.0	140.606
29.5	131.039
30.0	122.276
30.5	114.277
31.0	106.922
31.5	100.209
32.0	94.019
32.5	88.351
33.0	83.125
33.5	78.342
34.0	73.921
34.5	69.901
35.0	66.163
35.5	62.746
36.0	59.611
36.5	56.676
37.0	54.024
37.5	51.572
38.0	49.321
38.5	47.190
39.0	45.261
39.5	43.452
40.0	41.804
40.5	40.236
41.0	38.829
41.5	37.463
42.0	36.217
42.5	35.051
43.0	33.925
43.5	32.880
44.0	31.875
44.5	30.951
45.0	30.067
45.5	29.223
46.0	28.419
46.5	27.615
47.0	26.891
47.5	26.168
48.0	25.444
48.5	24.761
49.0	24.118
49.5	23.515
50.0	22.912
50.5	22.309
51.0	21.746
51.5	21.224
52.0	20.701
52.5	20.178
53.0	19.656
53.5	19.214
54.0	18.731
54.5	18.289

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : V6DR-L7-9DW-DIM-UNV-LN-OF-WH\_3000K.IES****CANDELA TABULATION - (Cont.)**

55.0	17.847
55.5	17.405
56.0	16.963
56.5	16.561
57.0	16.159
57.5	15.797
58.0	15.395
58.5	15.033
59.0	14.672
59.5	14.270
60.0	13.948
60.5	13.586
61.0	13.225
61.5	12.903
62.0	12.581
62.5	12.260
63.0	11.938
63.5	11.617
64.0	11.295
64.5	10.974
65.0	10.692
65.5	10.371
66.0	10.089
66.5	9.768
67.0	9.486
67.5	9.205
68.0	8.924
68.5	8.642
69.0	8.361
69.5	8.079
70.0	7.798
70.5	7.557
71.0	7.275
71.5	7.034
72.0	6.793
72.5	6.512
73.0	6.271
73.5	6.029
74.0	5.788
74.5	5.547
75.0	5.346
75.5	5.105
76.0	4.864
76.5	4.623
77.0	4.422
77.5	4.180
78.0	3.979
78.5	3.778
79.0	3.537
79.5	3.336
80.0	3.135
80.5	2.934
81.0	2.733
81.5	2.532
82.0	2.331
82.5	2.130

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83.0	1.929
83.5	1.728
84.0	1.568
84.5	1.367
85.0	1.166
85.5	1.005
86.0	0.844
86.5	0.683
87.0	0.563
87.5	0.442
88.0	0.322
88.5	0.241
89.0	0.201
89.5	0.121
90.0	0.080
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 : V6DR-L7-9DW-DIM-UNV-LN-OF-WH\_3000K.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

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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

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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



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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	512.56	N.A.	69.50
0-30	636.51	N.A.	86.30
0-40	680.33	N.A.	92.20
0-60	720.07	N.A.	97.60
0-80	736.36	N.A.	99.80
0-90	737.80	N.A.	100.00
10-90	520.84	N.A.	70.60
20-40	167.77	N.A.	22.70
20-50	191.42	N.A.	25.90
40-70	50.36	N.A.	6.80
60-80	16.29	N.A.	2.20
70-80	5.66	N.A.	0.80
80-90	1.44	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	737.80	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	216.96
10-20	295.61
20-30	123.95
30-40	43.82
40-50	23.65
50-60	16.09
60-70	10.62
70-80	5.66
80-90	1.44
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

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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	68	68	68	68	66	66	66	66	63	63	63	61	61	61	58	58	58	57
1	65	64	63	61	64	63	61	60	60	59	59	58	57	57	56	56	55	54
2	63	60	58	56	61	59	57	56	57	56	55	56	55	53	54	53	52	52
3	60	57	55	53	59	56	54	52	55	53	51	53	52	51	52	51	50	49
4	58	54	52	50	57	54	51	49	53	50	49	51	50	48	50	49	48	47
5	56	52	49	47	55	51	49	47	50	48	47	50	48	46	49	47	46	45
6	54	50	47	45	53	49	47	45	49	46	45	48	46	44	47	45	44	43
7	52	48	45	43	51	47	45	43	47	45	43	46	44	43	46	44	42	42
8	50	46	43	42	50	46	43	41	45	43	41	45	43	41	44	42	41	40
9	49	45	42	40	48	44	42	40	44	41	40	43	41	40	43	41	40	39
10	47	43	40	39	47	43	40	39	42	40	39	42	40	38	42	40	38	38

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## 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	9.3	10.3	9.6	10.6	10.9	9.3	10.3	9.6	10.6	10.9
	3H	10.7	11.5	11.1	11.9	12.2	10.7	11.5	11.1	11.9	12.2
	4H	11.2	12.0	11.6	12.3	12.7	11.2	12.0	11.6	12.3	12.7
	6H	11.5	12.2	11.9	12.6	13.0	11.5	12.2	11.9	12.6	13.0
	8H	11.6	12.3	12.0	12.7	13.1	11.6	12.3	12.0	12.7	13.1
	12H	11.6	12.3	12.1	12.7	13.1	11.6	12.3	12.1	12.7	13.1

### UGR Viewed Endwise

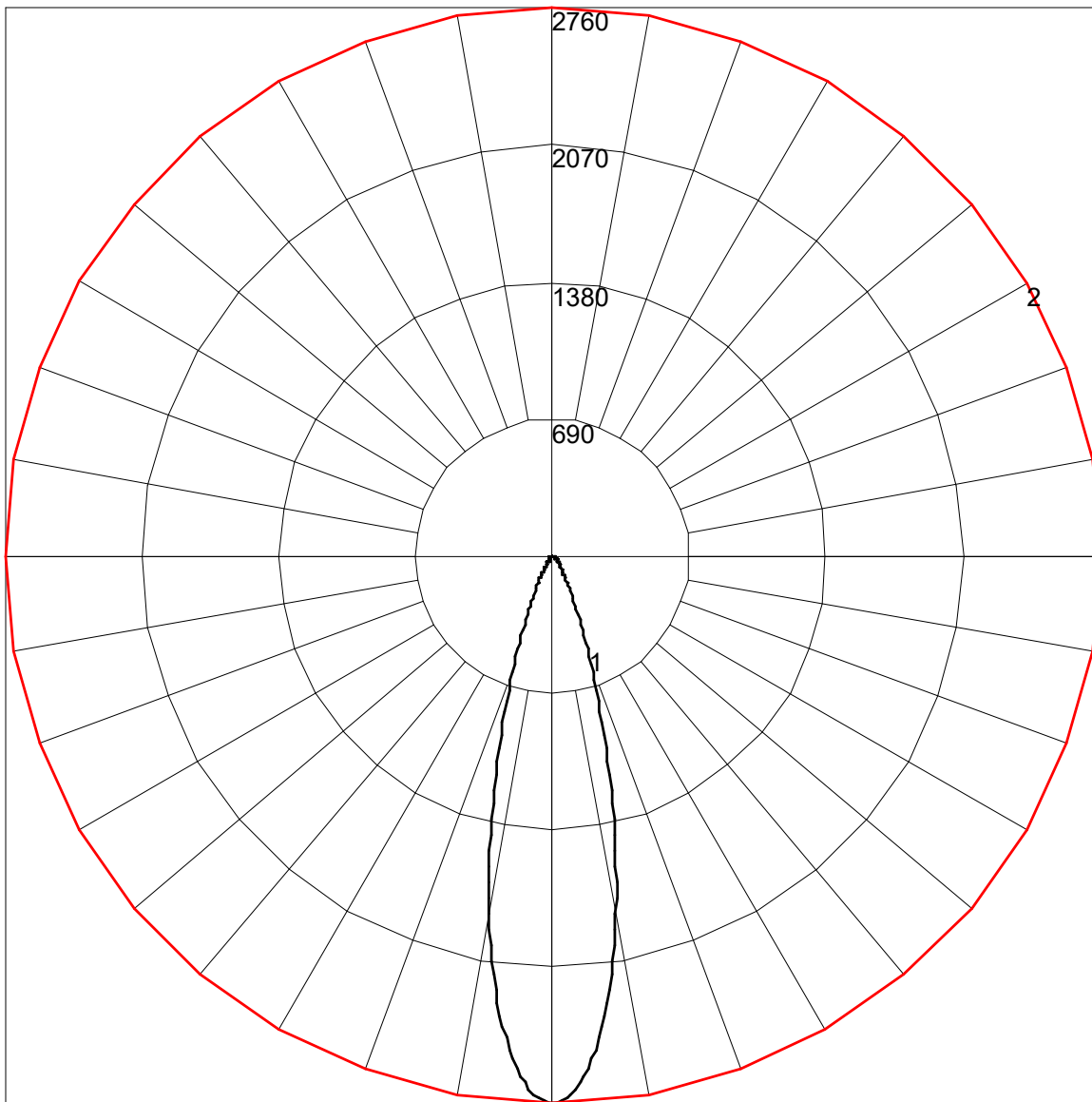
4H	2H	9.7	10.5	10.1	10.8	11.2	9.7	10.5	10.1	10.8	11.2
	3H	11.3	11.9	11.7	12.3	12.7	11.3	11.9	11.7	12.3	12.7
	4H	11.9	12.5	12.3	12.9	13.3	11.9	12.5	12.3	12.9	13.3
	6H	12.3	12.8	12.8	13.3	13.8	12.3	12.8	12.8	13.3	13.8
	8H	12.5	12.9	12.9	13.4	13.9	12.5	12.9	12.9	13.4	13.9
	12H	12.5	12.9	13.0	13.4	13.9	12.5	12.9	13.0	13.4	13.9

8H	4H	12.1	12.5	12.5	13.0	13.4	12.1	12.5	12.5	13.0	13.4
	6H	12.6	13.0	13.1	13.5	14.0	12.6	13.0	13.1	13.5	14.0
	8H	12.8	13.1	13.4	13.7	14.2	12.8	13.1	13.4	13.7	14.2
	12H	12.9	13.2	13.5	13.7	14.3	12.9	13.2	13.5	13.7	14.3

12H	4H	12.0	12.4	12.5	12.9	13.4	12.0	12.4	12.5	12.9	13.4
	6H	12.6	13.0	13.2	13.4	14.0	12.6	13.0	13.2	13.4	14.0
	8H	12.9	13.2	13.4	13.7	14.2	12.9	13.2	13.4	13.7	14.2

Maximum UGR = 14.3

POLAR GRAPH



Maximum Candela = 2760.264 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)