



IES INDOOR REPORT

PHOTOMETRIC FILENAME : V6DR-L7-9DW-DIM-UNV-RM-OF-WH_3000K.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #12326812.14

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 16 SEP 2021

[MANUFAC] WILLIAMS INDOOR

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

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

[LUMINAIRE] Black formed aluminum housing, white reflector, frosted pl

[MORE] astic 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	713
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	51
Total Luminaire Watts	14
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.58
Spacing Criterion (90-270)	0.58
Spacing Criterion (Diagonal)	0.56
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.48 ft (Diameter)
Luminous Width (90-270)	0.48 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	2563	2563	2563
55	1723	1723	1723
65	1283	1283	1283
75	886	886	886
85	739	739	739

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CANDELA TABULATION

	<u>0</u>
0.0	1725.684
0.5	1724.884
1.0	1722.483
1.5	1718.482
2.0	1712.880
2.5	1706.078
3.0	1697.676
3.5	1688.073
4.0	1677.671
4.5	1665.667
5.0	1652.864
5.5	1638.860
6.0	1623.255
6.5	1606.050
7.0	1587.645
7.5	1567.640
8.0	1546.034
8.5	1522.827
9.0	1498.020
9.5	1471.213
10.0	1443.205
10.5	1413.196
11.0	1381.187
11.5	1347.578
12.0	1312.368
12.5	1274.758
13.0	1236.347
13.5	1195.935
14.0	1154.324
14.5	1111.912
15.0	1067.899
15.5	1023.887
16.0	979.075
16.5	934.262
17.0	890.250
17.5	848.238
18.0	805.026
18.5	762.214
19.0	720.202
19.5	680.191
20.0	642.180
20.5	605.370
21.0	569.360
21.5	534.950
22.0	501.741
22.5	470.532
23.0	440.924
23.5	412.916
24.0	386.588
24.5	361.901
25.0	338.655
25.5	316.849
26.0	296.483
26.5	277.358

IES INDOOR REPORT**PHOTOMETRIC FILENAME : V6DR-L7-9DW-DIM-UNV-RM-OF-WH_3000K.IES****CANDELA TABULATION - (Cont.)**

27.0	259.553
27.5	242.908
28.0	227.304
28.5	212.820
29.0	199.216
29.5	186.492
30.0	174.529
30.5	163.366
31.0	152.923
31.5	143.120
32.0	133.958
32.5	125.355
33.0	117.273
33.5	109.711
34.0	102.589
34.5	95.987
35.0	89.825
35.5	84.064
36.0	78.702
36.5	73.741
37.0	69.139
37.5	64.898
38.0	60.977
38.5	57.376
39.0	54.055
39.5	51.014
40.0	48.254
40.5	45.733
41.0	43.412
41.5	41.292
42.0	39.331
42.5	37.531
43.0	35.850
43.5	34.330
44.0	32.889
44.5	31.609
45.0	30.369
45.5	29.248
46.0	28.168
46.5	27.168
47.0	26.247
47.5	25.407
48.0	24.607
48.5	23.847
49.0	23.126
49.5	22.406
50.0	21.766
50.5	21.166
51.0	20.566
51.5	20.006
52.0	19.485
52.5	18.925
53.0	18.445
53.5	17.965
54.0	17.485
54.5	17.005

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55.0	16.565
55.5	16.125
56.0	15.724
56.5	15.284
57.0	14.884
57.5	14.484
58.0	14.084
58.5	13.684
59.0	13.324
59.5	12.924
60.0	12.564
60.5	12.203
61.0	11.843
61.5	11.483
62.0	11.123
62.5	10.763
63.0	10.443
63.5	10.083
64.0	9.763
64.5	9.403
65.0	9.083
65.5	8.762
66.0	8.442
66.5	8.122
67.0	7.802
67.5	7.522
68.0	7.202
68.5	6.922
69.0	6.642
69.5	6.322
70.0	6.082
70.5	5.802
71.0	5.562
71.5	5.281
72.0	5.041
72.5	4.801
73.0	4.601
73.5	4.401
74.0	4.201
74.5	4.001
75.0	3.841
75.5	3.641
76.0	3.481
76.5	3.361
77.0	3.201
77.5	3.041
78.0	2.921
78.5	2.761
79.0	2.641
79.5	2.521
80.0	2.361
80.5	2.241
81.0	2.081
81.5	1.961
82.0	1.841
82.5	1.720

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CANDELA TABULATION - (Cont.)

83.0	1.600
83.5	1.440
84.0	1.320
84.5	1.200
85.0	1.080
85.5	0.960
86.0	0.880
86.5	0.760
87.0	0.640
87.5	0.520
88.0	0.400
88.5	0.320
89.0	0.280
89.5	0.200
90.0	0.160
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

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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	438.71	N.A.	61.50
0-30	599.84	N.A.	84.10
0-40	659.15	N.A.	92.50
0-60	698.51	N.A.	98.00
0-80	711.74	N.A.	99.80
0-90	712.97	N.A.	100.00
10-90	561.75	N.A.	78.80
20-40	220.44	N.A.	30.90
20-50	244.84	N.A.	34.30
40-70	48.41	N.A.	6.80
60-80	13.23	N.A.	1.90
70-80	4.18	N.A.	0.60
80-90	1.24	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	712.98	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	151.22
10-20	287.48
20-30	161.13
30-40	59.31
40-50	24.40
50-60	14.96
60-70	9.05
70-80	4.18
80-90	1.24
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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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	62	61	64	62	61	60	60	59	58	58	57	57	56	55	55	54
2	62	60	58	56	61	59	57	55	57	55	54	55	54	53	54	53	52	51
3	60	56	54	52	59	56	53	51	54	52	51	53	51	50	51	50	49	48
4	57	53	51	48	56	53	50	48	52	49	48	50	49	47	49	48	47	46
5	55	51	48	46	54	50	47	45	49	47	45	48	46	45	47	46	44	44
6	53	48	45	43	52	48	45	43	47	45	43	46	44	43	46	44	42	42
7	51	46	43	41	50	46	43	41	45	43	41	44	42	41	44	42	40	40
8	49	44	41	39	48	44	41	39	43	41	39	43	41	39	42	40	39	38
9	47	42	40	38	47	42	39	38	42	39	37	41	39	37	41	39	37	37
10	45	41	38	36	45	41	38	36	40	38	36	40	37	36	39	37	36	35

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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

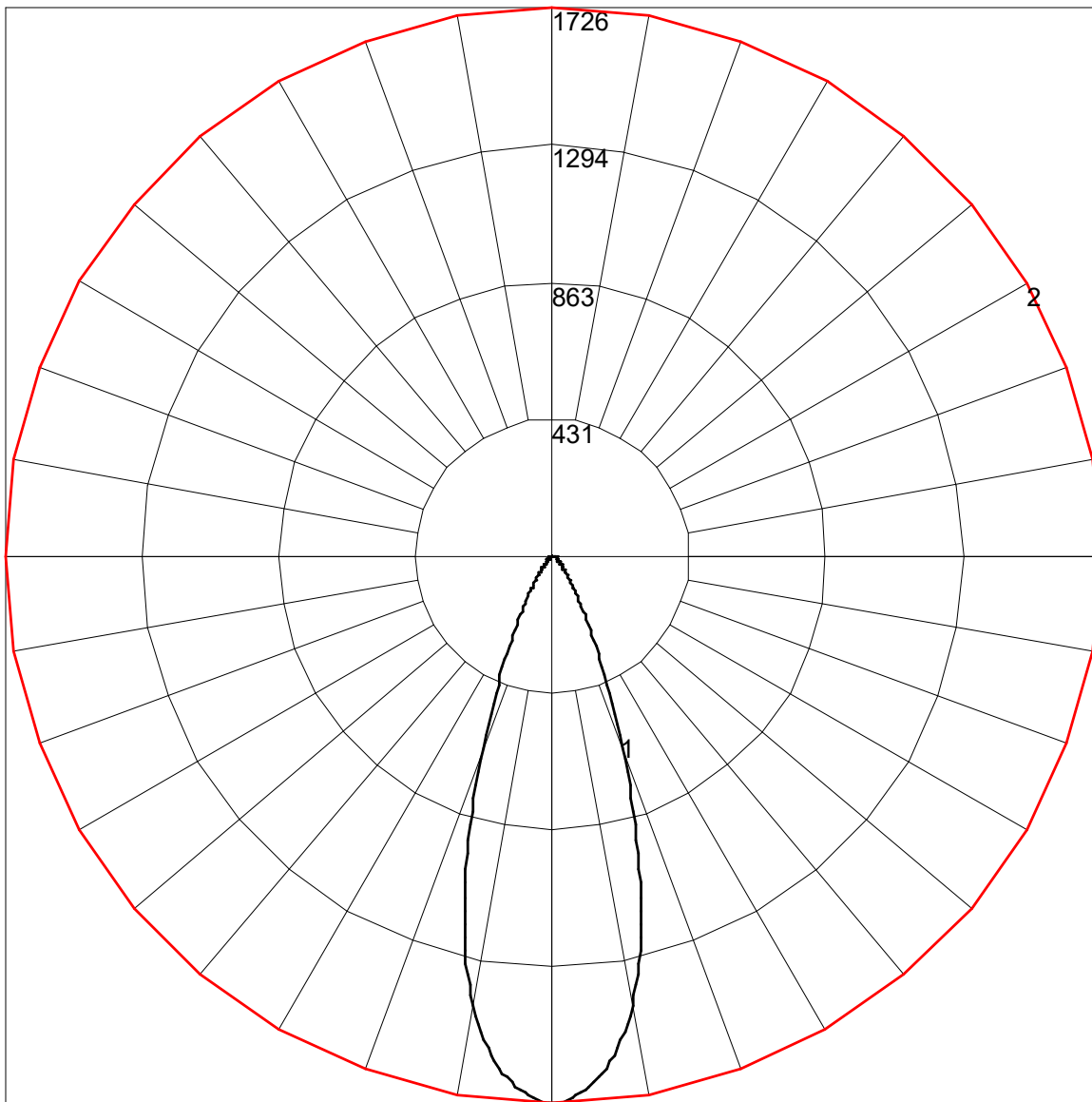
X=2H	Y=2H	8.4	9.4	8.8	9.7	10.0	8.4	9.4	8.8	9.7	10.0
	3H	9.5	10.4	9.9	10.7	11.1	9.5	10.4	9.9	10.7	11.1
	4H	9.8	10.6	10.2	11.0	11.4	9.8	10.6	10.2	11.0	11.4
	6H	10.1	10.8	10.5	11.2	11.6	10.1	10.8	10.5	11.2	11.6
	8H	10.1	10.8	10.6	11.2	11.6	10.1	10.8	10.6	11.2	11.6
	12H	10.2	10.8	10.6	11.2	11.6	10.2	10.8	10.6	11.2	11.6

UGR Viewed Endwise

4H	2H	8.7	9.5	9.1	9.9	10.3	8.7	9.5	9.1	9.9	10.3
	3H	10.0	10.6	10.4	11.1	11.5	10.0	10.6	10.4	11.1	11.5
	4H	10.4	11.0	10.8	11.4	11.9	10.4	11.0	10.8	11.4	11.9
	6H	10.7	11.2	11.2	11.7	12.2	10.7	11.2	11.2	11.7	12.2
	8H	10.9	11.3	11.3	11.8	12.2	10.9	11.3	11.3	11.8	12.2
	12H	10.9	11.3	11.4	11.8	12.3	10.9	11.3	11.4	11.8	12.3
8H	4H	10.5	10.9	11.0	11.4	11.9	10.5	10.9	11.0	11.4	11.9
	6H	10.9	11.3	11.5	11.8	12.3	10.9	11.3	11.5	11.8	12.3
	8H	11.1	11.4	11.7	12.0	12.5	11.1	11.4	11.7	12.0	12.5
	12H	11.3	11.5	11.8	12.0	12.6	11.3	11.5	11.8	12.0	12.6
12H	4H	10.5	10.9	11.0	11.3	11.8	10.5	10.9	11.0	11.3	11.8
	6H	10.9	11.3	11.5	11.7	12.3	10.9	11.3	11.5	11.7	12.3
	8H	11.2	11.4	11.7	11.9	12.5	11.2	11.4	11.7	11.9	12.5

Maximum UGR = 12.6

POLAR GRAPH



Maximum Candela = 1725.684 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.)