



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : V6DR-L10-8TW-DIM-UNV-RM-OF-WH\_4000K.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #12326812.14

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 21 SEP 2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMCAT] V6DR-L10-8TW-DIM-UNV-RM-OF-WH 4000k

[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	1088
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	75
Total Luminaire Watts	14.6
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	3911	3911	3911
55	2630	2630	2630
65	1957	1957	1957
75	1351	1351	1351
85	1128	1128	1128

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CANDELA TABULATION

	<u>0</u>
0.0	2633.302
0.5	2632.081
1.0	2628.417
1.5	2622.312
2.0	2613.764
2.5	2603.385
3.0	2590.563
3.5	2575.910
4.0	2560.036
4.5	2541.719
5.0	2522.182
5.5	2500.813
6.0	2477.001
6.5	2450.747
7.0	2422.662
7.5	2392.135
8.0	2359.165
8.5	2323.753
9.0	2285.899
9.5	2244.992
10.0	2202.254
10.5	2156.462
11.0	2107.618
11.5	2056.332
12.0	2002.604
12.5	1945.212
13.0	1886.599
13.5	1824.934
14.0	1761.437
14.5	1696.718
15.0	1629.558
15.5	1562.397
16.0	1494.016
16.5	1425.634
17.0	1358.474
17.5	1294.366
18.0	1228.426
18.5	1163.098
19.0	1098.990
19.5	1037.935
20.0	979.933
20.5	923.762
21.0	868.813
21.5	816.305
22.0	765.630
22.5	718.007
23.0	672.826
23.5	630.088
24.0	589.913
24.5	552.242
25.0	516.769
25.5	483.494
26.0	452.417
26.5	423.233

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**CANDELA TABULATION - (Cont.)**

27.0	396.064
27.5	370.665
28.0	346.853
28.5	324.752
29.0	303.993
29.5	284.577
30.0	266.322
30.5	249.288
31.0	233.352
31.5	218.394
32.0	204.412
32.5	191.285
33.0	178.952
33.5	167.413
34.0	156.545
34.5	146.471
35.0	137.068
35.5	128.277
36.0	120.095
36.5	112.524
37.0	105.503
37.5	99.031
38.0	93.048
38.5	87.553
39.0	82.485
39.5	77.845
40.0	73.632
40.5	69.786
41.0	66.245
41.5	63.009
42.0	60.017
42.5	57.270
43.0	54.705
43.5	52.385
44.0	50.187
44.5	48.233
45.0	46.341
45.5	44.631
46.0	42.983
46.5	41.456
47.0	40.052
47.5	38.770
48.0	37.549
48.5	36.389
49.0	35.290
49.5	34.191
50.0	33.214
50.5	32.298
51.0	31.382
51.5	30.527
52.0	29.734
52.5	28.879
53.0	28.146
53.5	27.414
54.0	26.681
54.5	25.948

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CANDELA TABULATION - (Cont.)

55.0	25.277
55.5	24.605
56.0	23.995
56.5	23.323
57.0	22.712
57.5	22.102
58.0	21.491
58.5	20.881
59.0	20.331
59.5	19.721
60.0	19.171
60.5	18.622
61.0	18.072
61.5	17.523
62.0	16.973
62.5	16.424
63.0	15.935
63.5	15.386
64.0	14.897
64.5	14.348
65.0	13.859
65.5	13.371
66.0	12.883
66.5	12.394
67.0	11.906
67.5	11.478
68.0	10.990
68.5	10.563
69.0	10.135
69.5	9.647
70.0	9.280
70.5	8.853
71.0	8.487
71.5	8.059
72.0	7.693
72.5	7.327
73.0	7.021
73.5	6.716
74.0	6.411
74.5	6.105
75.0	5.861
75.5	5.556
76.0	5.312
76.5	5.129
77.0	4.884
77.5	4.640
78.0	4.457
78.5	4.213
79.0	4.030
79.5	3.846
80.0	3.602
80.5	3.419
81.0	3.175
81.5	2.992
82.0	2.809
82.5	2.625

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CANDELA TABULATION - (Cont.)

83.0	2.442
83.5	2.198
84.0	2.015
84.5	1.832
85.0	1.648
85.5	1.465
86.0	1.343
86.5	1.160
87.0	0.977
87.5	0.794
88.0	0.611
88.5	0.488
89.0	0.427
89.5	0.305
90.0	0.244
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



**IES INDOOR REPORT****PHOTOMETRIC FILENAME : V6DR-L10-8TW-DIM-UNV-RM-OF-WH\_4000K.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	669.44	N.A.	61.50
0-30	915.32	N.A.	84.10
0-40	1005.82	N.A.	92.40
0-60	1065.88	N.A.	98.00
0-80	1086.07	N.A.	99.80
0-90	1087.96	N.A.	100.00
10-90	857.20	N.A.	78.80
20-40	336.38	N.A.	30.90
20-50	373.62	N.A.	34.30
40-70	73.87	N.A.	6.80
60-80	20.19	N.A.	1.90
70-80	6.38	N.A.	0.60
80-90	1.89	N.A.	0.20
90-110	0.01	N.A.	0.00
90-120	0.01	N.A.	0.00
90-130	0.01	N.A.	0.00
90-150	0.01	N.A.	0.00
90-180	0.01	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1087.97	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	230.76
10-20	438.68
20-30	245.88
30-40	90.50
40-50	37.24
50-60	22.82
60-70	13.81
70-80	6.38
80-90	1.89
90-100	0.01
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	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	68	68	68	68	67	67	67	67	64	64	64	61	61	61	59	59	59	57
1	65	64	63	62	64	63	62	61	60	60	59	58	58	57	56	56	55	54
2	63	60	58	56	61	59	57	56	57	56	54	56	54	53	54	53	52	51
3	60	57	54	52	59	56	54	52	54	53	51	53	51	50	52	51	49	49
4	58	54	51	49	57	53	51	49	52	50	48	51	49	47	50	48	47	46
5	55	51	48	46	54	51	48	46	50	47	45	49	47	45	48	46	45	44
6	53	49	46	44	52	48	45	43	47	45	43	47	44	43	46	44	43	42
7	51	46	44	41	50	46	43	41	45	43	41	45	43	41	44	42	41	40
8	49	45	42	40	49	44	41	39	44	41	39	43	41	39	43	41	39	38
9	47	43	40	38	47	42	40	38	42	39	38	41	39	38	41	39	37	37
10	46	41	38	36	45	41	38	36	40	38	36	40	38	36	40	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

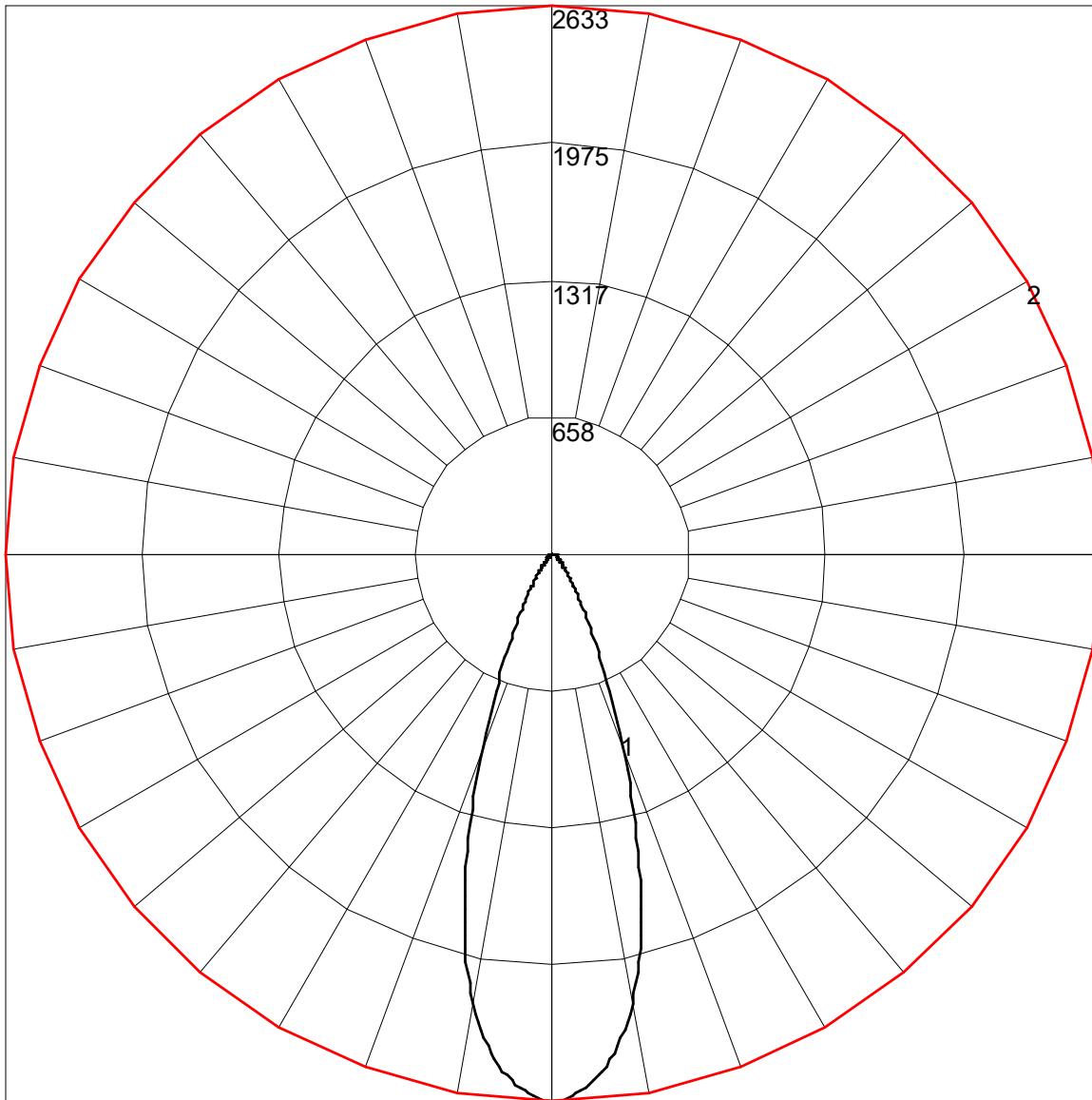
X=2H	Y=2H	9.9	10.9	10.3	11.2	11.5	9.9	10.9	10.3	11.2	11.5
	3H	11.0	11.9	11.4	12.2	12.6	11.0	11.9	11.4	12.2	12.6
	4H	11.3	12.1	11.7	12.5	12.9	11.3	12.1	11.7	12.5	12.9
	6H	11.5	12.3	12.0	12.7	13.1	11.5	12.3	12.0	12.7	13.1
	8H	11.6	12.3	12.1	12.7	13.1	11.6	12.3	12.1	12.7	13.1
	12H	11.7	12.3	12.1	12.7	13.1	11.7	12.3	12.1	12.7	13.1

### UGR Viewed Endwise

4H	2H	10.2	11.0	10.6	11.4	11.8	10.2	11.0	10.6	11.4	11.8
	3H	11.5	12.1	11.9	12.6	13.0	11.5	12.1	11.9	12.6	13.0
	4H	11.9	12.5	12.3	12.9	13.3	11.9	12.5	12.3	12.9	13.3
	6H	12.2	12.7	12.7	13.2	13.7	12.2	12.7	12.7	13.2	13.7
	8H	12.4	12.8	12.8	13.3	13.7	12.4	12.8	12.8	13.3	13.7
	12H	12.4	12.8	12.9	13.3	13.8	12.4	12.8	12.9	13.3	13.8
8H	4H	12.0	12.4	12.5	12.9	13.4	12.0	12.4	12.5	12.9	13.4
	6H	12.4	12.8	13.0	13.3	13.8	12.4	12.8	13.0	13.3	13.8
	8H	12.6	12.9	13.2	13.5	14.0	12.6	12.9	13.2	13.5	14.0
	12H	12.8	13.0	13.3	13.5	14.1	12.8	13.0	13.3	13.5	14.1
12H	4H	12.0	12.4	12.5	12.8	13.3	12.0	12.4	12.5	12.8	13.3
	6H	12.4	12.8	13.0	13.2	13.8	12.4	12.8	13.0	13.2	13.8
	8H	12.7	12.9	13.2	13.4	14.0	12.7	12.9	13.2	13.4	14.0

Maximum UGR = 14.1

POLAR GRAPH



Maximum Candela = 2633.302 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.)