

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L8-940-DIM-UNV-LW-OF_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM 13257153.01
[TESTLAB] UL Verification Services Inc.
[ISSUE DATE] 2025-05-20
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] V2DR-L8-940-DIM-UNV-LW-OF_
[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, Vandal-Resistant
[SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	691
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	65
Total Luminaire Watts	10.7
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	28480	28480	28480
55	24874	24874	24874
65	21249	21249	21249
75	17142	17142	17142
85	9601	9601	9601

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CANDELA TABULATION

	<u>0</u>
0.0	814.724
0.5	814.305
1.0	814.305
1.5	813.885
2.0	813.465
2.5	812.206
3.0	810.947
3.5	809.688
4.0	808.009
4.5	805.910
5.0	803.811
5.5	801.712
6.0	799.614
6.5	797.095
7.0	794.577
7.5	792.058
8.0	789.120
8.5	786.182
9.0	782.824
9.5	779.466
10.0	775.688
10.5	771.491
11.0	767.293
11.5	762.676
12.0	758.059
12.5	752.602
13.0	747.146
13.5	741.269
14.0	734.973
14.5	728.257
15.0	721.121
15.5	713.146
16.0	705.171
16.5	696.356
17.0	686.702
17.5	677.048
18.0	666.135
18.5	654.802
19.0	642.209
19.5	628.778
20.0	614.926
20.5	599.815
21.0	584.285
21.5	567.495
22.0	549.866
22.5	531.817
23.0	512.928
23.5	493.620
24.0	473.892
24.5	453.744
25.0	433.177
25.5	412.819
26.0	392.209
26.5	371.810

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CANDELA TABULATION - (Cont.)

27.0	351.704
27.5	332.018
28.0	312.752
28.5	293.947
29.0	275.730
29.5	257.975
30.0	241.311
30.5	225.571
31.0	210.712
31.5	196.860
32.0	183.890
32.5	171.843
33.0	160.804
33.5	150.688
34.0	141.496
34.5	133.101
35.0	125.462
35.5	118.536
36.0	112.282
36.5	106.699
37.0	101.662
37.5	97.171
38.0	93.141
38.5	89.490
39.0	86.216
39.5	83.277
40.0	80.591
40.5	78.198
41.0	76.016
41.5	74.001
42.0	72.154
42.5	70.433
43.0	68.880
43.5	67.453
44.0	66.110
44.5	64.851
45.0	63.633
45.5	62.500
46.0	61.409
46.5	60.359
47.0	59.352
47.5	58.345
48.0	57.379
48.5	56.414
49.0	55.448
49.5	54.525
50.0	53.643
50.5	52.762
51.0	51.838
51.5	50.999
52.0	50.118
52.5	49.278
53.0	48.439
53.5	47.599
54.0	46.760
54.5	45.920

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CANDELA TABULATION - (Cont.)

55.0	45.081
55.5	44.241
56.0	43.444
56.5	42.562
57.0	41.765
57.5	40.925
58.0	40.086
58.5	39.246
59.0	38.407
59.5	37.567
60.0	36.728
60.5	35.888
61.0	35.049
61.5	34.167
62.0	33.370
62.5	32.530
63.0	31.649
63.5	30.809
64.0	29.970
64.5	29.172
65.0	28.375
65.5	27.577
66.0	26.780
66.5	26.024
67.0	25.227
67.5	24.513
68.0	23.758
68.5	23.044
69.0	22.330
69.5	21.575
70.0	20.861
70.5	20.148
71.0	19.476
71.5	18.763
72.0	18.049
72.5	17.377
73.0	16.664
73.5	15.992
74.0	15.363
74.5	14.691
75.0	14.019
75.5	13.390
76.0	12.760
76.5	12.131
77.0	11.543
77.5	10.913
78.0	10.326
78.5	9.738
79.0	9.150
79.5	8.563
80.0	8.017
80.5	7.429
81.0	6.884
81.5	6.338
82.0	5.792
82.5	5.247

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CANDELA TABULATION - (Cont.)

83.0	4.743
83.5	4.197
84.0	3.694
84.5	3.148
85.0	2.644
85.5	2.099
86.0	1.553
86.5	1.175
87.0	0.839
87.5	0.504
88.0	0.336
88.5	0.252
89.0	0.168
89.5	0.126
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

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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
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118.0	0.000
118.5	0.000
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124.5	0.000
125.0	0.000
125.5	0.000
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126.5	0.000
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128.0	0.000
128.5	0.000
129.0	0.000
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130.0	0.000
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131.0	0.000
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132.0	0.000
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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
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146.5	0.000
147.0	0.000
147.5	0.000
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152.0	0.000
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153.0	0.000
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155.5	0.000
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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	275.44	N.A.	39.90
0-30	469.58	N.A.	68.00
0-40	553.93	N.A.	80.20
0-60	644.09	N.A.	93.30
0-80	687.25	N.A.	99.50
0-90	690.57	N.A.	100.00
10-90	614.72	N.A.	89.00
20-40	278.49	N.A.	40.30
20-50	328.33	N.A.	47.50
40-70	118.37	N.A.	17.10
60-80	43.15	N.A.	6.20
70-80	14.94	N.A.	2.20
80-90	3.32	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	690.57	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	75.85
10-20	199.59
20-30	194.14
30-40	84.35
40-50	49.84
50-60	40.32
60-70	28.21
70-80	14.94
80-90	3.32
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	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	97	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	62	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	62	57	53	62	56	52	61	56	52	60	55	52	51
10	70	60	54	50	69	59	53	50	58	53	49	58	53	49	57	52	49	48

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UGR TABLE - CORRECTED

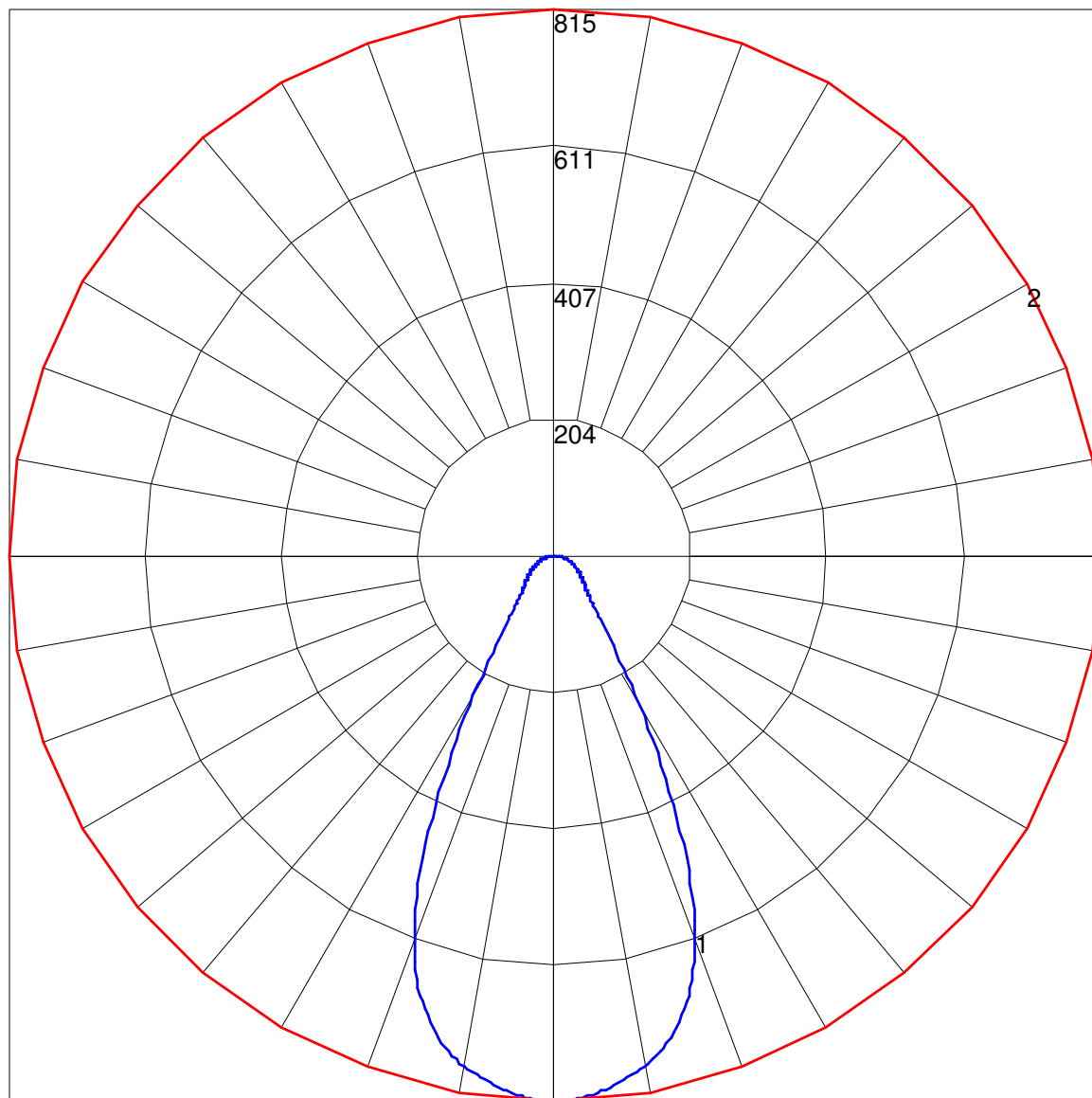
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	19.4	20.5	19.7	20.9	21.2	19.4	20.5	19.7	20.9	21.2
	3H	20.9	21.9	21.3	22.2	22.6	20.9	21.9	21.3	22.2	22.6
	4H	21.4	22.4	21.8	22.7	23.1	21.4	22.4	21.8	22.7	23.1
	6H	21.7	22.6	22.1	23.0	23.4	21.7	22.6	22.1	23.0	23.4
	8H	21.8	22.7	22.2	23.1	23.5	21.8	22.7	22.2	23.1	23.5
	12H	21.8	22.7	22.3	23.0	23.5	21.8	22.7	22.3	23.0	23.5
4H	2H	19.9	20.8	20.3	21.2	21.6	19.9	20.8	20.3	21.2	21.6
	3H	21.5	22.3	22.0	22.7	23.2	21.5	22.3	22.0	22.7	23.2
	4H	22.2	22.9	22.6	23.3	23.8	22.2	22.9	22.6	23.3	23.8
	6H	22.6	23.2	23.1	23.7	24.2	22.6	23.2	23.1	23.7	24.2
	8H	22.7	23.3	23.2	23.8	24.2	22.7	23.3	23.2	23.8	24.2
	12H	22.8	23.3	23.3	23.8	24.3	22.8	23.3	23.3	23.8	24.3
8H	4H	22.4	22.9	22.8	23.4	23.9	22.4	22.9	22.8	23.4	23.9
	6H	22.9	23.4	23.4	23.9	24.4	22.9	23.4	23.4	23.9	24.4
	8H	23.1	23.5	23.6	24.0	24.5	23.1	23.5	23.6	24.0	24.5
	12H	23.2	23.6	23.7	24.1	24.6	23.2	23.6	23.7	24.1	24.6
12H	4H	22.3	22.9	22.8	23.3	23.8	22.3	22.9	22.8	23.3	23.8
	6H	22.9	23.4	23.5	23.8	24.4	22.9	23.4	23.5	23.8	24.4
	8H	23.2	23.5	23.7	24.0	24.6	23.2	23.5	23.7	24.0	24.6

Maximum UGR = 24.6

POLAR GRAPH



Maximum Candela = 814.724 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.)