

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L14-940-DIM-UNV-RW-OF-CS_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM 13257153.03
[TESTLAB] UL Verification Services Inc.
[ISSUEDATE] 2025-05-20
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] V2DR-L14-940-DIM-UNV-RW-OF-CS_
[LUMINAIRE] Aluminum housing, optics, and trim enclosure
[LAMP] One white LED
[OTHER] This test was performed using the calibrated photodetector met
[MORE] hod 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	1126
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	65
Total Luminaire Watts	17.3
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	40372	40372	40372
55	31946	31946	31946
65	23880	23880	23880
75	12433	12433	12433
85	7535	7535	7535

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CANDELA TABULATION

	<u>0</u>
0.0	1341.958
0.5	1341.958
1.0	1341.266
1.5	1340.574
2.0	1340.574
2.5	1339.191
3.0	1337.115
3.5	1334.348
4.0	1331.582
4.5	1328.815
5.0	1324.664
5.5	1321.206
6.0	1317.055
6.5	1312.213
7.0	1307.371
7.5	1302.529
8.0	1297.687
8.5	1292.153
9.0	1285.927
9.5	1280.393
10.0	1274.168
10.5	1267.251
11.0	1259.642
11.5	1252.033
12.0	1243.732
12.5	1235.431
13.0	1226.438
13.5	1216.754
14.0	1206.378
14.5	1196.002
15.0	1184.243
15.5	1172.483
16.0	1159.341
16.5	1146.198
17.0	1132.363
17.5	1117.837
18.0	1102.619
18.5	1086.017
19.0	1068.724
19.5	1050.047
20.0	1030.679
20.5	1010.619
21.0	989.175
21.5	967.039
22.0	942.829
22.5	918.618
23.0	893.024
23.5	866.739
24.0	839.069
24.5	811.400
25.0	783.039
25.5	753.295
26.0	722.859
26.5	692.422

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CANDELA TABULATION - (Cont.)

27.0	662.194
27.5	631.827
28.0	601.183
28.5	570.678
29.0	539.481
29.5	508.076
30.0	476.948
30.5	446.305
31.0	416.076
31.5	386.885
32.0	358.801
32.5	332.238
33.0	307.613
33.5	284.786
34.0	263.549
34.5	244.112
35.0	226.473
35.5	210.286
36.0	195.621
36.5	182.479
37.0	170.788
37.5	160.343
38.0	150.866
38.5	142.427
39.0	135.026
39.5	128.524
40.0	122.713
40.5	117.663
41.0	113.167
41.5	109.155
42.0	105.558
42.5	102.376
43.0	99.471
43.5	96.911
44.0	94.490
44.5	92.277
45.0	90.202
45.5	88.196
46.0	86.328
46.5	84.460
47.0	82.731
47.5	81.002
48.0	79.272
48.5	77.612
49.0	75.952
49.5	74.292
50.0	72.701
50.5	71.179
51.0	69.588
51.5	68.066
52.0	66.614
52.5	65.092
53.0	63.639
53.5	62.187
54.0	60.734
54.5	59.281

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PHOTOMETRIC FILENAME : V2DR-L14-940-DIM-UNV-RW-OF-CS_.IES

CANDELA TABULATION - (Cont.)

55.0	57.898
55.5	56.514
56.0	55.131
56.5	53.747
57.0	52.364
57.5	51.050
58.0	49.666
58.5	48.352
59.0	47.038
59.5	45.793
60.0	44.478
60.5	43.164
61.0	41.850
61.5	40.605
62.0	39.290
62.5	38.045
63.0	36.800
63.5	35.555
64.0	34.310
64.5	33.065
65.0	31.889
65.5	30.713
66.0	29.537
66.5	28.292
67.0	27.185
67.5	26.078
68.0	24.902
68.5	23.796
69.0	22.689
69.5	21.582
70.0	20.544
70.5	19.438
71.0	18.400
71.5	17.293
72.0	16.256
72.5	15.218
73.0	14.180
73.5	13.143
74.0	12.174
74.5	11.137
75.0	10.168
75.5	9.269
76.0	8.370
76.5	7.678
77.0	7.056
77.5	6.502
78.0	6.087
78.5	5.741
79.0	5.465
79.5	5.188
80.0	4.842
80.5	4.565
81.0	4.289
81.5	4.012
82.0	3.666
82.5	3.389

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PHOTOMETRIC FILENAME : V2DR-L14-940-DIM-UNV-RW-OF-CS_.IES

CANDELA TABULATION - (Cont.)

83.0	3.182
83.5	2.905
84.0	2.629
84.5	2.352
85.0	2.075
85.5	1.868
86.0	1.591
86.5	1.383
87.0	1.107
87.5	0.899
88.0	0.692
88.5	0.484
89.0	0.277
89.5	0.208
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-L14-940-DIM-UNV-RW-OF-CS_.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
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128.5	0.000
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130.0	0.000
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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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PHOTOMETRIC FILENAME : V2DR-L14-940-DIM-UNV-RW-OF-CS_.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

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PHOTOMETRIC FILENAME : V2DR-L14-940-DIM-UNV-RW-OF-CS_.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

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	453.89	N.A.	40.30
0-30	803.51	N.A.	71.40
0-40	957.34	N.A.	85.00
0-60	1080.3	N.A.	95.90
0-80	1123.64	N.A.	99.80
0-90	1126.03	N.A.	100.00
10-90	1001.21	N.A.	88.90
20-40	503.44	N.A.	44.70
20-50	574.51	N.A.	51.00
40-70	154.66	N.A.	13.70
60-80	43.34	N.A.	3.80
70-80	11.65	N.A.	1.00
80-90	2.39	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	1126.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	124.82
10-20	329.07
20-30	349.62
30-40	153.83
40-50	71.07
50-60	51.89
60-70	31.69
70-80	11.65
80-90	2.39
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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	86	83	80	79
4	96	88	82	78	94	87	81	77	85	80	76	82	78	75	81	77	74	73
5	91	82	76	72	89	81	75	71	79	74	71	78	73	70	76	72	69	68
6	86	77	71	66	85	76	70	66	75	70	66	73	69	65	72	68	65	63
7	82	72	66	62	81	72	66	62	71	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	75	65	59	55	73	64	58	55	63	58	54	62	58	54	61	57	54	53
10	71	61	55	52	70	61	55	51	60	55	51	59	55	51	59	54	51	50

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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	19.3	20.4	19.7	20.7	21.0
	3H	20.3	21.3	20.7	21.6	22.0
	4H	20.5	21.4	20.9	21.8	22.2
	6H	20.6	21.4	21.0	21.8	22.2
	8H	20.6	21.3	21.0	21.7	22.1
	12H	20.5	21.3	21.0	21.7	22.1

UGR Viewed Endwise

19.3	20.4	19.7	20.7	21.0
20.3	21.3	20.7	21.6	22.0
20.5	21.4	20.9	21.8	22.2
20.6	21.4	21.0	21.8	22.2
20.6	21.3	21.0	21.7	22.1
20.5	21.3	21.0	21.7	22.1

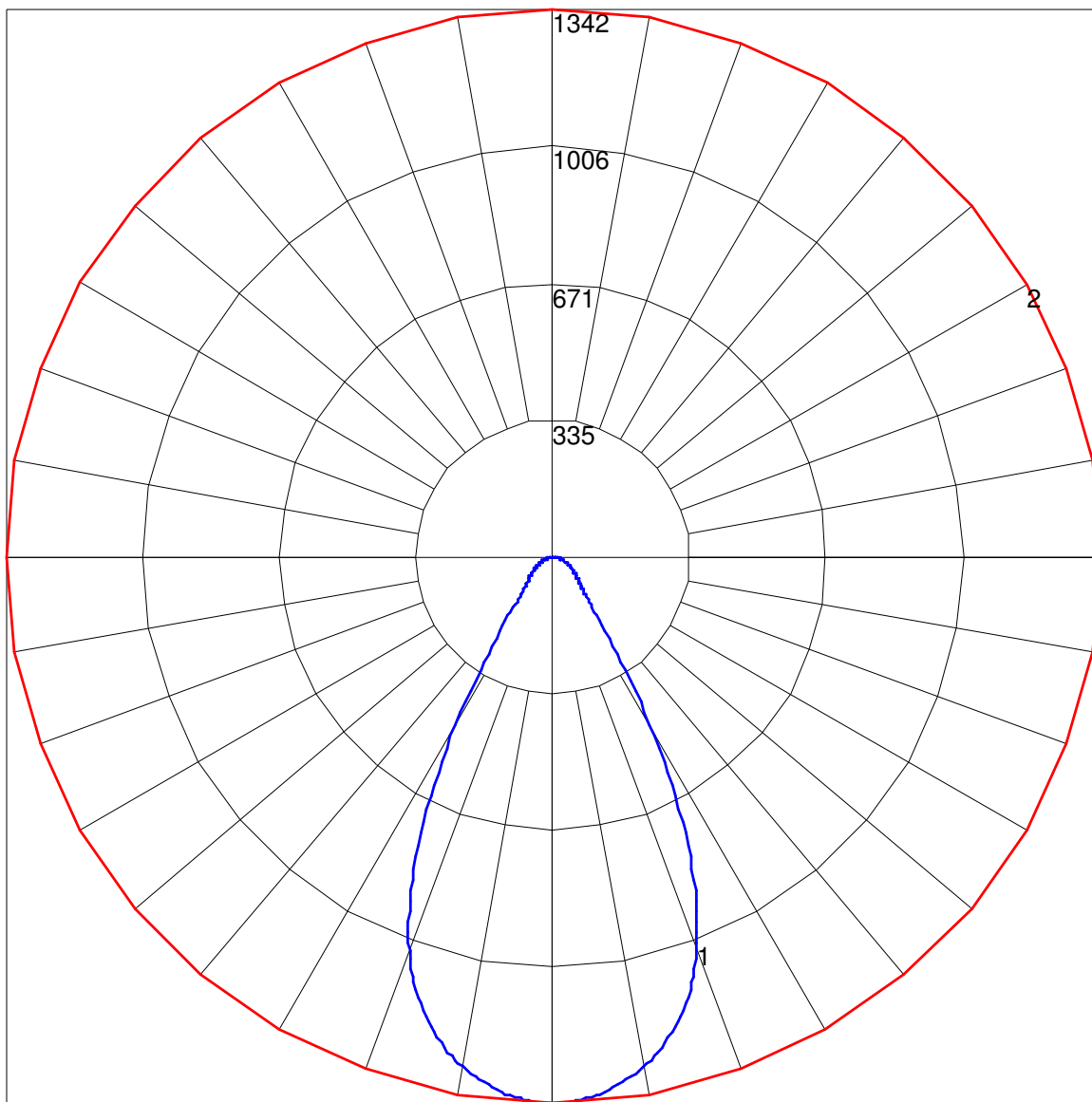
4H	2H	19.6	20.5	20.0	20.9	21.3	19.6	20.5	20.0	20.9	21.3
	3H	20.8	21.6	21.2	22.0	22.4	20.8	21.6	21.2	22.0	22.4
	4H	21.0	21.7	21.5	22.1	22.6	21.0	21.7	21.5	22.1	22.6
	6H	21.1	21.7	21.6	22.1	22.6	21.1	21.7	21.6	22.1	22.6
	8H	21.1	21.6	21.6	22.1	22.6	21.1	21.6	21.6	22.1	22.6
	12H	21.1	21.6	21.6	22.1	22.5	21.1	21.6	21.6	22.1	22.5

8H	4H	21.0	21.6	21.5	22.0	22.5	21.0	21.6	21.5	22.0	22.5
	6H	21.2	21.6	21.7	22.1	22.6	21.2	21.6	21.7	22.1	22.6
	8H	21.2	21.6	21.7	22.1	22.6	21.2	21.6	21.7	22.1	22.6
	12H	21.2	21.6	21.7	22.0	22.6	21.2	21.6	21.7	22.0	22.6

12H	4H	21.0	21.5	21.5	21.9	22.4	21.0	21.5	21.5	21.9	22.4
	6H	21.1	21.5	21.7	22.0	22.5	21.1	21.5	21.7	22.0	22.5
	8H	21.2	21.5	21.7	22.0	22.6	21.2	21.5	21.7	22.0	22.6

Maximum UGR = 22.6

POLAR GRAPH



Maximum Candela = 1341.958 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.)