

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L14-850-DIM-UNV-RW-OF-BL_.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-L14-850-DIM-UNV-RW-OF-BL_
[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
[SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1102
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	64
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	39518	39518	39518
55	31271	31271	31271
65	23376	23376	23376
75	12172	12172	12172
85	7375	7375	7375

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CANDELA TABULATION

	<u>0</u>
0.0	1313.593
0.5	1313.593
1.0	1312.916
1.5	1312.238
2.0	1312.238
2.5	1310.884
3.0	1308.853
3.5	1306.144
4.0	1303.436
4.5	1300.728
5.0	1296.665
5.5	1293.279
6.0	1289.217
6.5	1284.477
7.0	1279.737
7.5	1274.997
8.0	1270.258
8.5	1264.841
9.0	1258.747
9.5	1253.330
10.0	1247.236
10.5	1240.465
11.0	1233.017
11.5	1225.568
12.0	1217.443
12.5	1209.318
13.0	1200.515
13.5	1191.036
14.0	1180.879
14.5	1170.722
15.0	1159.212
15.5	1147.701
16.0	1134.836
16.5	1121.971
17.0	1108.428
17.5	1094.209
18.0	1079.313
18.5	1063.062
19.0	1046.134
19.5	1027.852
20.0	1008.893
20.5	989.257
21.0	968.267
21.5	946.599
22.0	922.900
22.5	899.202
23.0	874.148
23.5	848.418
24.0	821.334
24.5	794.250
25.0	766.488
25.5	737.372
26.0	707.580
26.5	677.787

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CANDELA TABULATION - (Cont.)

27.0	648.197
27.5	618.472
28.0	588.476
28.5	558.615
29.0	528.078
29.5	497.337
30.0	466.867
30.5	436.871
31.0	407.281
31.5	378.707
32.0	351.217
32.5	325.216
33.0	301.111
33.5	278.766
34.0	257.979
34.5	238.952
35.0	221.686
35.5	205.841
36.0	191.487
36.5	178.622
37.0	167.178
37.5	156.954
38.0	147.678
38.5	139.417
39.0	132.172
39.5	125.807
40.0	120.119
40.5	115.176
41.0	110.775
41.5	106.848
42.0	103.327
42.5	100.212
43.0	97.368
43.5	94.863
44.0	92.493
44.5	90.326
45.0	88.295
45.5	86.331
46.0	84.503
46.5	82.675
47.0	80.982
47.5	79.290
48.0	77.597
48.5	75.972
49.0	74.347
49.5	72.722
50.0	71.164
50.5	69.675
51.0	68.117
51.5	66.628
52.0	65.206
52.5	63.716
53.0	62.294
53.5	60.872
54.0	59.450
54.5	58.028

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55.0	56.674
55.5	55.320
56.0	53.966
56.5	52.611
57.0	51.257
57.5	49.971
58.0	48.616
58.5	47.330
59.0	46.043
59.5	44.825
60.0	43.538
60.5	42.252
61.0	40.965
61.5	39.746
62.0	38.460
62.5	37.241
63.0	36.022
63.5	34.803
64.0	33.585
64.5	32.366
65.0	31.215
65.5	30.064
66.0	28.913
66.5	27.694
67.0	26.610
67.5	25.527
68.0	24.376
68.5	23.293
69.0	22.209
69.5	21.126
70.0	20.110
70.5	19.027
71.0	18.011
71.5	16.928
72.0	15.912
72.5	14.896
73.0	13.881
73.5	12.865
74.0	11.917
74.5	10.901
75.0	9.954
75.5	9.073
76.0	8.193
76.5	7.516
77.0	6.907
77.5	6.365
78.0	5.959
78.5	5.620
79.0	5.349
79.5	5.078
80.0	4.740
80.5	4.469
81.0	4.198
81.5	3.927
82.0	3.589
82.5	3.318

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83.0	3.115
83.5	2.844
84.0	2.573
84.5	2.302
85.0	2.031
85.5	1.828
86.0	1.557
86.5	1.354
87.0	1.083
87.5	0.880
88.0	0.677
88.5	0.474
89.0	0.271
89.5	0.203
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-L14-850-DIM-UNV-RW-OF-BL_.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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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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Zone	Lumens	%Lamp	%Fixt
0-20	444.30	N.A.	40.30
0-30	786.52	N.A.	71.40
0-40	937.10	N.A.	85.00
0-60	1057.46	N.A.	95.90
0-80	1099.89	N.A.	99.80
0-90	1102.23	N.A.	100.00
10-90	980.04	N.A.	88.90
20-40	492.80	N.A.	44.70
20-50	562.37	N.A.	51.00
40-70	151.39	N.A.	13.70
60-80	42.42	N.A.	3.80
70-80	11.40	N.A.	1.00
80-90	2.34	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	1102.23	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	122.19
10-20	322.11
20-30	342.23
30-40	150.58
40-50	69.57
50-60	50.79
60-70	31.02
70-80	11.40
80-90	2.34
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	73	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	62	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

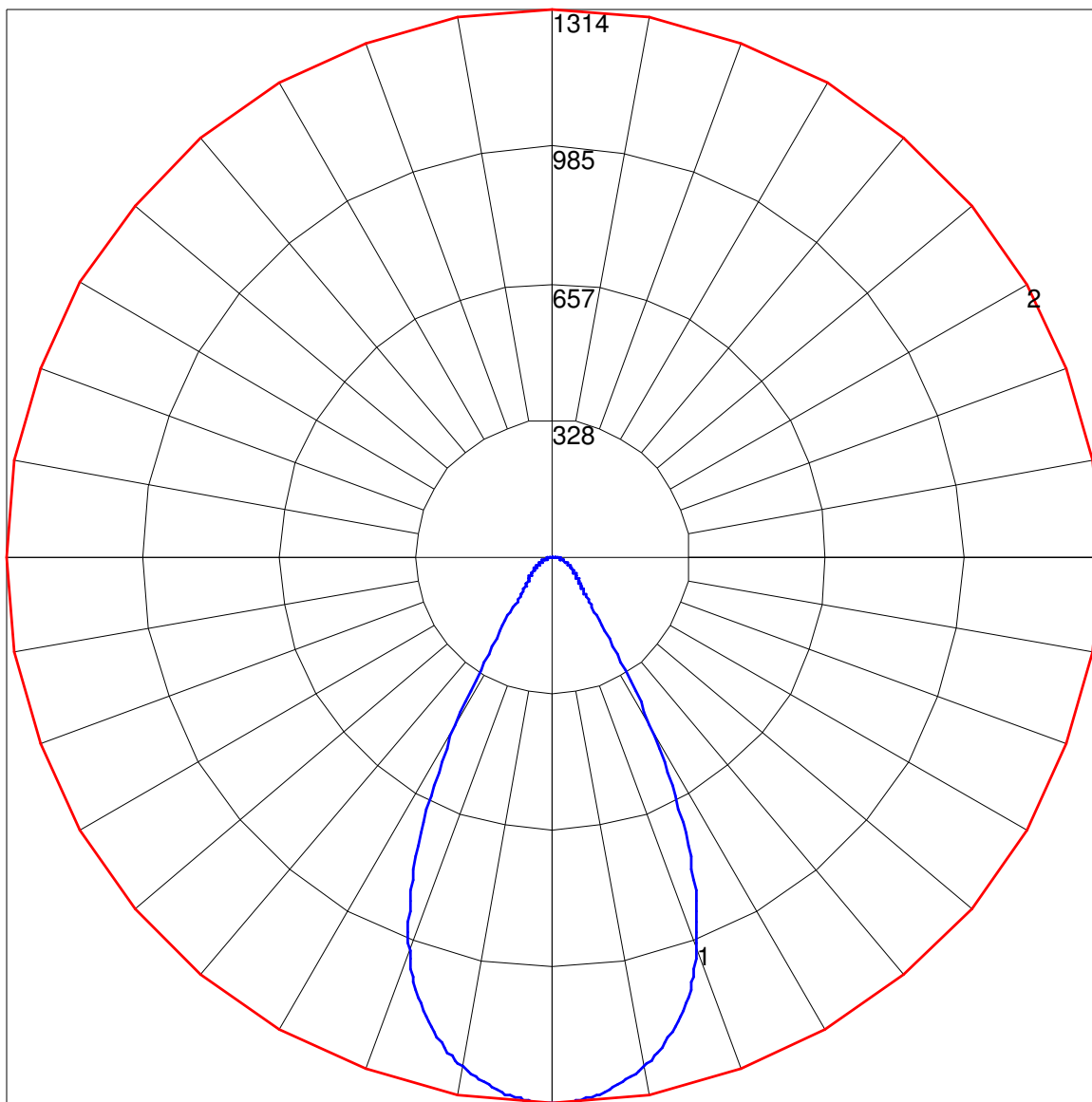
X=2H	Y=2H	19.3	20.4	19.7	20.7	21.0	19.3	20.4	19.7	20.7	21.0
	3H	20.3	21.3	20.7	21.6	22.0	20.3	21.3	20.7	21.6	22.0
	4H	20.5	21.4	20.9	21.8	22.2	20.5	21.4	20.9	21.8	22.2
	6H	20.6	21.4	21.0	21.8	22.2	20.6	21.4	21.0	21.8	22.2
	8H	20.6	21.3	21.0	21.7	22.1	20.6	21.3	21.0	21.7	22.1
	12H	20.5	21.3	21.0	21.7	22.1	20.5	21.3	21.0	21.7	22.1

UGR Viewed Endwise

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 = 1313.593 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.)