

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L14-840-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-L14-840-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 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	1091
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	63
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	39131	39131	39131
55	30964	30964	30964
65	23146	23146	23146
75	12052	12052	12052
85	7302	7302	7302

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CANDELA TABULATION

	<u>0</u>
0.0	1300.714
0.5	1300.714
1.0	1300.044
1.5	1299.373
2.0	1299.373
2.5	1298.032
3.0	1296.021
3.5	1293.339
4.0	1290.657
4.5	1287.975
5.0	1283.953
5.5	1280.600
6.0	1276.577
6.5	1271.884
7.0	1267.191
7.5	1262.497
8.0	1257.804
8.5	1252.440
9.0	1246.406
9.5	1241.042
10.0	1235.008
10.5	1228.303
11.0	1220.928
11.5	1213.553
12.0	1205.507
12.5	1197.462
13.0	1188.746
13.5	1179.359
14.0	1169.302
14.5	1159.245
15.0	1147.847
15.5	1136.449
16.0	1123.710
16.5	1110.971
17.0	1097.562
17.5	1083.482
18.0	1068.731
18.5	1052.640
19.0	1035.878
19.5	1017.775
20.0	999.002
20.5	979.559
21.0	958.774
21.5	937.319
22.0	913.852
22.5	890.386
23.0	865.578
23.5	840.101
24.0	813.282
24.5	786.463
25.0	758.974
25.5	730.143
26.0	700.643
26.5	671.142

IES INDOOR REPORT**PHOTOMETRIC FILENAME : V2DR-L14-840-DIM-UNV-RW-OF-BL_.IES****CANDELA TABULATION - (Cont.)**

27.0	641.842
27.5	612.408
28.0	582.707
28.5	553.139
29.0	522.901
29.5	492.461
30.0	462.290
30.5	432.588
31.0	403.288
31.5	374.995
32.0	347.773
32.5	322.027
33.0	298.159
33.5	276.033
34.0	255.450
34.5	236.609
35.0	219.512
35.5	203.823
36.0	189.609
36.5	176.870
37.0	165.539
37.5	155.415
38.0	146.230
38.5	138.050
39.0	130.876
39.5	124.574
40.0	118.942
40.5	114.047
41.0	109.689
41.5	105.800
42.0	102.314
42.5	99.230
43.0	96.414
43.5	93.933
44.0	91.586
44.5	89.441
45.0	87.429
45.5	85.485
46.0	83.675
46.5	81.865
47.0	80.188
47.5	78.512
48.0	76.836
48.5	75.227
49.0	73.618
49.5	72.009
50.0	70.467
50.5	68.991
51.0	67.449
51.5	65.974
52.0	64.566
52.5	63.091
53.0	61.683
53.5	60.275
54.0	58.867
54.5	57.459

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CANDELA TABULATION - (Cont.)

55.0	56.118
55.5	54.778
56.0	53.437
56.5	52.096
57.0	50.755
57.5	49.481
58.0	48.140
58.5	46.866
59.0	45.592
59.5	44.385
60.0	43.111
60.5	41.837
61.0	40.564
61.5	39.357
62.0	38.083
62.5	36.876
63.0	35.669
63.5	34.462
64.0	33.255
64.5	32.049
65.0	30.909
65.5	29.769
66.0	28.629
66.5	27.422
67.0	26.350
67.5	25.277
68.0	24.137
68.5	23.064
69.0	21.991
69.5	20.919
70.0	19.913
70.5	18.840
71.0	17.835
71.5	16.762
72.0	15.756
72.5	14.750
73.0	13.745
73.5	12.739
74.0	11.800
74.5	10.795
75.0	9.856
75.5	8.984
76.0	8.113
76.5	7.442
77.0	6.839
77.5	6.302
78.0	5.900
78.5	5.565
79.0	5.297
79.5	5.029
80.0	4.693
80.5	4.425
81.0	4.157
81.5	3.889
82.0	3.553
82.5	3.285

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CANDELA TABULATION - (Cont.)

83.0	3.084
83.5	2.816
84.0	2.548
84.5	2.280
85.0	2.011
85.5	1.810
86.0	1.542
86.5	1.341
87.0	1.073
87.5	0.872
88.0	0.670
88.5	0.469
89.0	0.268
89.5	0.201
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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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
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158.0	0.000
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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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Zone	Lumens	%Lamp	%Fixt
0-20	439.94	N.A.	40.30
0-30	778.81	N.A.	71.40
0-40	927.91	N.A.	85.00
0-60	1047.1	N.A.	95.90
0-80	1089.1	N.A.	99.80
0-90	1091.42	N.A.	100.00
10-90	970.44	N.A.	88.90
20-40	487.97	N.A.	44.70
20-50	556.86	N.A.	51.00
40-70	149.90	N.A.	13.70
60-80	42.01	N.A.	3.80
70-80	11.29	N.A.	1.00
80-90	2.32	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	1091.42	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	120.99
10-20	318.95
20-30	338.87
30-40	149.10
40-50	68.89
50-60	50.30
60-70	30.72
70-80	11.29
80-90	2.32
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	113	110	107	105	111	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	83	79	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	19.2	20.3	19.6	20.6	20.9	19.2	20.3	19.6	20.6	20.9
	3H	20.2	21.2	20.6	21.5	21.9	20.2	21.2	20.6	21.5	21.9
	4H	20.4	21.3	20.8	21.7	22.1	20.4	21.3	20.8	21.7	22.1
	6H	20.4	21.3	20.9	21.7	22.0	20.4	21.3	20.9	21.7	22.0
	8H	20.4	21.2	20.9	21.6	22.0	20.4	21.2	20.9	21.6	22.0
	12H	20.4	21.2	20.9	21.6	22.0	20.4	21.2	20.9	21.6	22.0

UGR Viewed Endwise

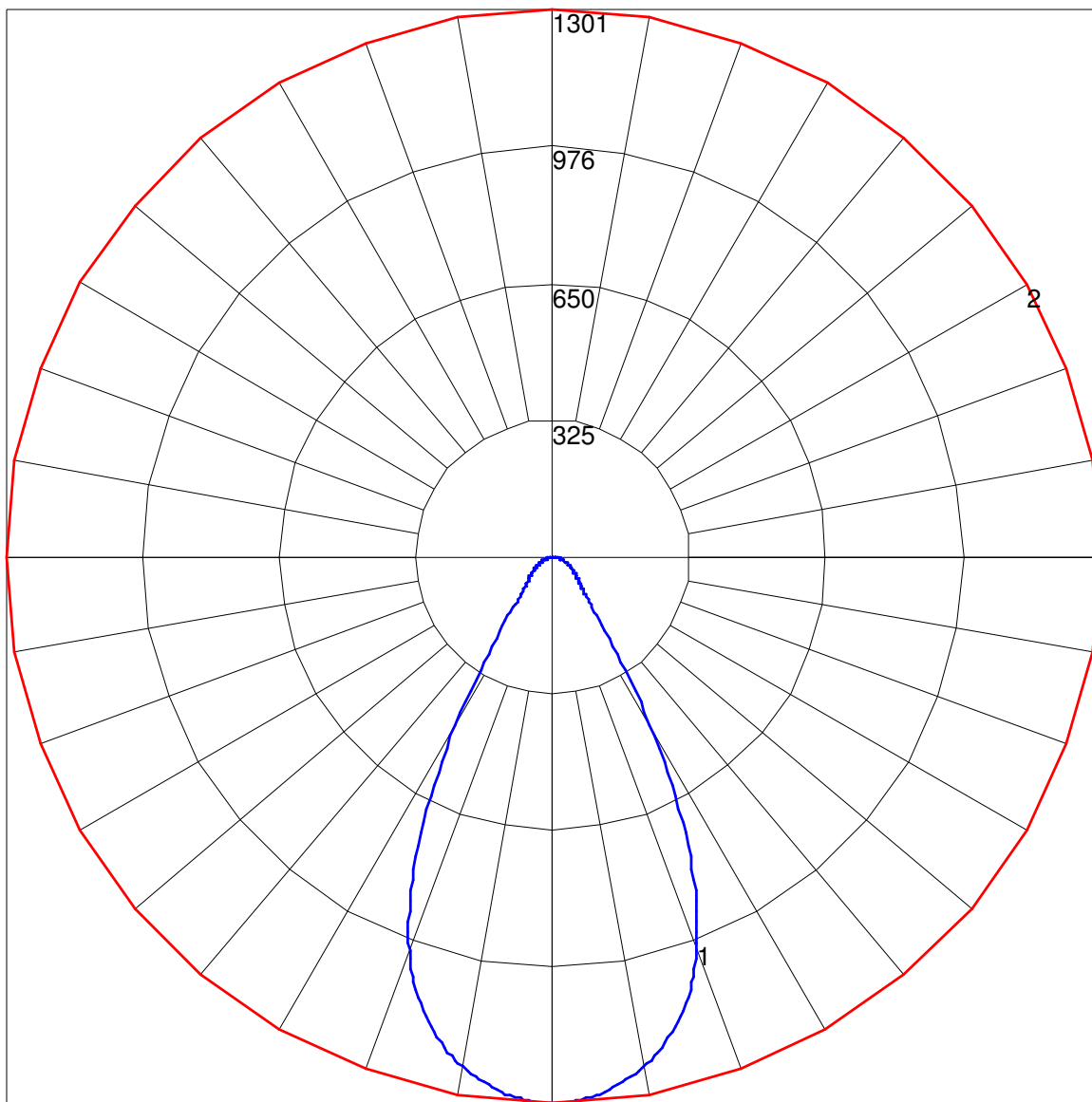
4H	2H	19.5	20.4	19.9	20.8	21.2	19.5	20.4	19.9	20.8	21.2
	3H	20.7	21.4	21.1	21.9	22.3	20.7	21.4	21.1	21.9	22.3
	4H	20.9	21.6	21.4	22.0	22.5	20.9	21.6	21.4	22.0	22.5
	6H	21.0	21.6	21.5	22.0	22.5	21.0	21.6	21.5	22.0	22.5
	8H	21.0	21.5	21.5	22.0	22.5	21.0	21.5	21.5	22.0	22.5
	12H	21.0	21.5	21.5	22.0	22.4	21.0	21.5	21.5	22.0	22.4

8H	4H	20.9	21.5	21.4	21.9	22.4	20.9	21.5	21.4	21.9	22.4
	6H	21.1	21.5	21.6	22.0	22.5	21.1	21.5	21.6	22.0	22.5
	8H	21.1	21.5	21.6	22.0	22.5	21.1	21.5	21.6	22.0	22.5
	12H	21.1	21.4	21.6	21.9	22.5	21.1	21.4	21.6	21.9	22.5

12H	4H	20.9	21.3	21.4	21.8	22.3	20.9	21.3	21.4	21.8	22.3
	6H	21.0	21.4	21.6	21.9	22.4	21.0	21.4	21.6	21.9	22.4
	8H	21.1	21.4	21.6	21.9	22.5	21.1	21.4	21.6	21.9	22.5

Maximum UGR = 22.5

POLAR GRAPH



Maximum Candela = 1300.714 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.)