

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L14-940-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-L14-940-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	908
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	52
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	32545	32545	32545
55	25753	25753	25753
65	19250	19250	19250
75	10023	10023	10023
85	6075	6075	6075

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CANDELA TABULATION

	<u>0</u>
0.0	1081.782
0.5	1081.782
1.0	1081.224
1.5	1080.667
2.0	1080.667
2.5	1079.551
3.0	1077.879
3.5	1075.648
4.0	1073.418
4.5	1071.187
5.0	1067.841
5.5	1065.053
6.0	1061.708
6.5	1057.804
7.0	1053.901
7.5	1049.998
8.0	1046.094
8.5	1041.633
9.0	1036.615
9.5	1032.154
10.0	1027.135
10.5	1021.559
11.0	1015.425
11.5	1009.291
12.0	1002.600
12.5	995.909
13.0	988.660
13.5	980.853
14.0	972.489
14.5	964.124
15.0	954.645
15.5	945.165
16.0	934.570
16.5	923.976
17.0	912.823
17.5	901.113
18.0	888.846
18.5	875.463
19.0	861.522
19.5	846.467
20.0	830.853
20.5	814.682
21.0	797.396
21.5	779.552
22.0	760.035
22.5	740.519
23.0	719.887
23.5	698.697
24.0	676.393
24.5	654.088
25.0	631.225
25.5	607.248
26.0	582.712
26.5	558.177

IES INDOOR REPORT**PHOTOMETRIC FILENAME : V2DR-L14-940-DIM-UNV-RW-OF-BL_.IES****CANDELA TABULATION - (Cont.)**

27.0	533.809
27.5	509.330
28.0	484.627
28.5	460.036
29.0	434.888
29.5	409.572
30.0	384.479
30.5	359.776
31.0	335.408
31.5	311.877
32.0	289.237
32.5	267.825
33.0	247.973
33.5	229.572
34.0	212.453
34.5	196.784
35.0	182.565
35.5	169.516
36.0	157.695
36.5	147.100
37.0	137.676
37.5	129.256
38.0	121.617
38.5	114.814
39.0	108.847
39.5	103.606
40.0	98.922
40.5	94.851
41.0	91.227
41.5	87.992
42.0	85.093
42.5	82.528
43.0	80.186
43.5	78.123
44.0	76.171
44.5	74.386
45.0	72.714
45.5	71.096
46.0	69.591
46.5	68.085
47.0	66.691
47.5	65.297
48.0	63.903
48.5	62.565
49.0	61.227
49.5	59.888
50.0	58.606
50.5	57.379
51.0	56.097
51.5	54.870
52.0	53.699
52.5	52.472
53.0	51.301
53.5	50.130
54.0	48.959
54.5	47.788

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CANDELA TABULATION - (Cont.)

55.0	46.673
55.5	45.558
56.0	44.442
56.5	43.327
57.0	42.212
57.5	41.152
58.0	40.037
58.5	38.978
59.0	37.918
59.5	36.914
60.0	35.855
60.5	34.795
61.0	33.736
61.5	32.732
62.0	31.673
62.5	30.669
63.0	29.665
63.5	28.662
64.0	27.658
64.5	26.654
65.0	25.706
65.5	24.758
66.0	23.810
66.5	22.807
67.0	21.914
67.5	21.022
68.0	20.074
68.5	19.182
69.0	18.290
69.5	17.398
70.0	16.561
70.5	15.669
71.0	14.833
71.5	13.940
72.0	13.104
72.5	12.268
73.0	11.431
73.5	10.595
74.0	9.814
74.5	8.978
75.0	8.197
75.5	7.472
76.0	6.747
76.5	6.190
77.0	5.688
77.5	5.242
78.0	4.907
78.5	4.628
79.0	4.405
79.5	4.182
80.0	3.903
80.5	3.680
81.0	3.457
81.5	3.234
82.0	2.955
82.5	2.732

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CANDELA TABULATION - (Cont.)

83.0	2.565
83.5	2.342
84.0	2.119
84.5	1.896
85.0	1.673
85.5	1.506
86.0	1.283
86.5	1.115
87.0	0.892
87.5	0.725
88.0	0.558
88.5	0.390
89.0	0.223
89.5	0.167
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
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
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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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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

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Zone	Lumens	%Lamp	%Fixt
0-20	365.89	N.A.	40.30
0-30	647.72	N.A.	71.40
0-40	771.73	N.A.	85.00
0-60	870.85	N.A.	95.90
0-80	905.79	N.A.	99.80
0-90	907.72	N.A.	100.00
10-90	807.09	N.A.	88.90
20-40	405.84	N.A.	44.70
20-50	463.13	N.A.	51.00
40-70	124.67	N.A.	13.70
60-80	34.94	N.A.	3.80
70-80	9.39	N.A.	1.00
80-90	1.93	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	907.72	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	100.62
10-20	265.27
20-30	281.83
30-40	124.01
40-50	57.29
50-60	41.83
60-70	25.55
70-80	9.39
80-90	1.93
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	85	83	80	78
4	96	88	82	78	94	87	81	77	84	80	76	82	78	75	81	77	74	73
5	91	82	76	71	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	70	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	54	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	18.6	19.7	19.0	20.0	20.3
	3H	19.6	20.6	20.0	20.9	21.3
	4H	19.8	20.7	20.2	21.1	21.5
	6H	19.9	20.7	20.3	21.1	21.5
	8H	19.9	20.6	20.3	21.0	21.4
	12H	19.8	20.6	20.3	21.0	21.4

UGR Viewed Endwise

18.6	19.7	19.0	20.0	20.3
19.6	20.6	20.0	20.9	21.3
19.8	20.7	20.2	21.1	21.5
19.9	20.7	20.3	21.1	21.5
19.9	20.6	20.3	21.0	21.4
19.8	20.6	20.3	21.0	21.4

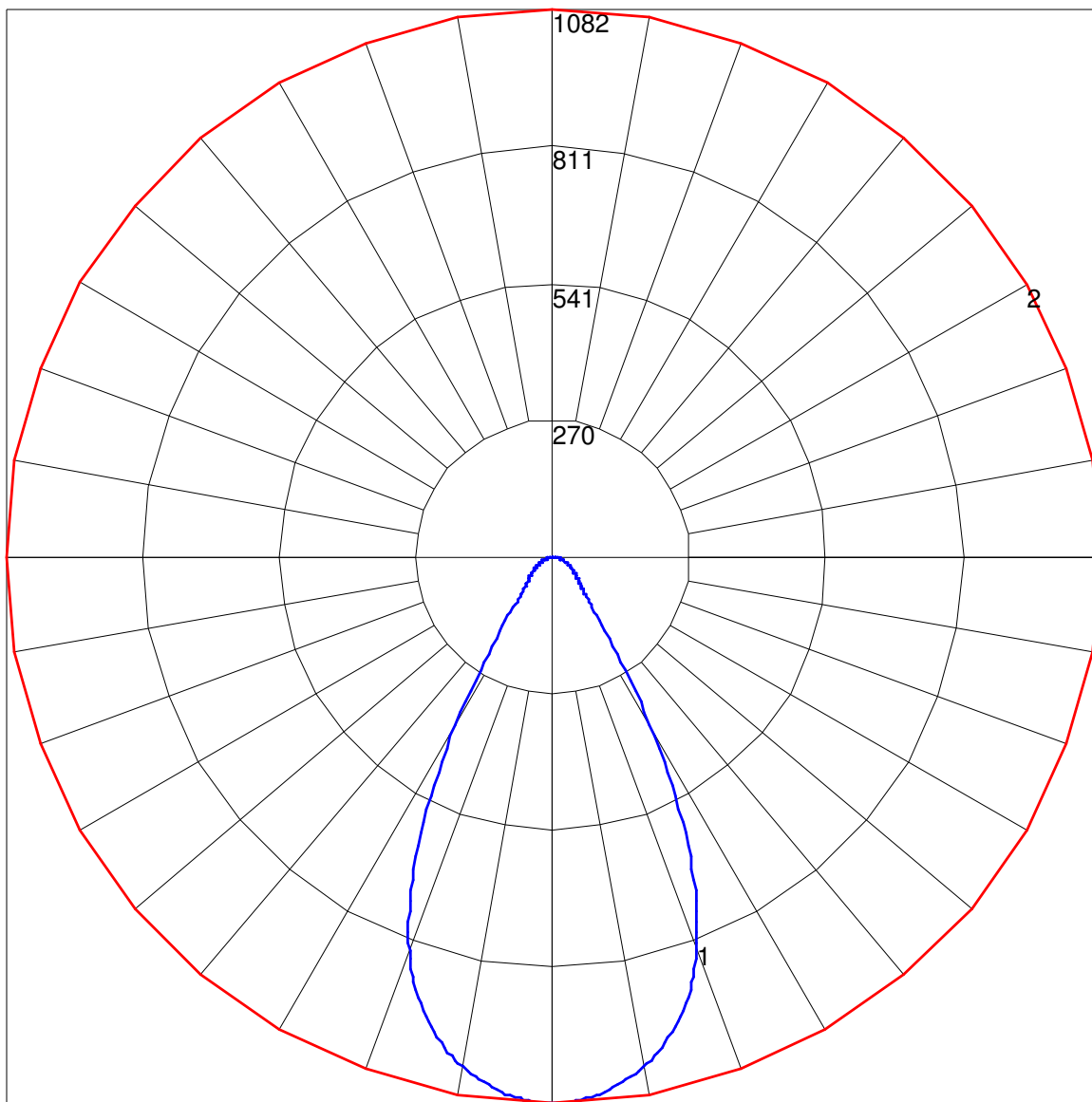
4H	2H	18.9	19.8	19.3	20.2	20.6
	3H	20.1	20.8	20.5	21.3	21.7
	4H	20.3	21.0	20.8	21.4	21.9
	6H	20.4	21.0	20.9	21.4	21.9
	8H	20.4	20.9	20.9	21.4	21.9
	12H	20.4	20.9	20.9	21.4	21.8

8H	4H	20.3	20.9	20.8	21.3	21.8
	6H	20.5	20.9	21.0	21.4	21.9
	8H	20.5	20.9	21.0	21.4	21.9
	12H	20.5	20.9	21.0	21.3	21.9

12H	4H	20.3	20.8	20.8	21.2	21.7
	6H	20.4	20.8	21.0	21.3	21.8
	8H	20.5	20.8	21.0	21.3	21.9

Maximum UGR = 21.9

POLAR GRAPH



Maximum Candela = 1081.782 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.)