

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L14-935-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-L14-935-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	886
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	51
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	31769	31769	31769
55	25140	25140	25140
65	18792	18792	18792
75	9785	9785	9785
85	5930	5930	5930

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CANDELA TABULATION

	<u>0</u>
0.0	1056.025
0.5	1056.025
1.0	1055.481
1.5	1054.937
2.0	1054.937
2.5	1053.848
3.0	1052.215
3.5	1050.038
4.0	1047.860
4.5	1045.683
5.0	1042.417
5.5	1039.695
6.0	1036.429
6.5	1032.619
7.0	1028.808
7.5	1024.998
8.0	1021.187
8.5	1016.833
9.0	1011.934
9.5	1007.579
10.0	1002.680
10.5	997.236
11.0	991.249
11.5	985.261
12.0	978.729
12.5	972.197
13.0	965.120
13.5	957.499
14.0	949.334
14.5	941.169
15.0	931.915
15.5	922.661
16.0	912.319
16.5	901.976
17.0	891.089
17.5	879.658
18.0	867.683
18.5	854.619
19.0	841.010
19.5	826.313
20.0	811.071
20.5	795.285
21.0	778.410
21.5	760.992
22.0	741.940
22.5	722.887
23.0	702.747
23.5	682.062
24.0	660.288
24.5	638.514
25.0	616.196
25.5	592.790
26.0	568.838
26.5	544.887

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CANDELA TABULATION - (Cont.)

27.0	521.100
27.5	497.203
28.0	473.088
28.5	449.083
29.0	424.533
29.5	399.820
30.0	375.324
30.5	351.210
31.0	327.422
31.5	304.451
32.0	282.351
32.5	261.448
33.0	242.069
33.5	224.106
34.0	207.395
34.5	192.099
35.0	178.218
35.5	165.480
36.0	153.940
36.5	143.598
37.0	134.398
37.5	126.179
38.0	118.721
38.5	112.080
39.0	106.256
39.5	101.139
40.0	96.566
40.5	92.593
41.0	89.055
41.5	85.897
42.0	83.067
42.5	80.563
43.0	78.277
43.5	76.262
44.0	74.357
44.5	72.615
45.0	70.982
45.5	69.404
46.0	67.934
46.5	66.464
47.0	65.103
47.5	63.743
48.0	62.382
48.5	61.075
49.0	59.769
49.5	58.462
50.0	57.210
50.5	56.013
51.0	54.761
51.5	53.563
52.0	52.420
52.5	51.223
53.0	50.080
53.5	48.936
54.0	47.793
54.5	46.650

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55.0	45.562
55.5	44.473
56.0	43.384
56.5	42.295
57.0	41.207
57.5	40.173
58.0	39.084
58.5	38.050
59.0	37.015
59.5	36.036
60.0	35.001
60.5	33.967
61.0	32.933
61.5	31.953
62.0	30.919
62.5	29.939
63.0	28.959
63.5	27.979
64.0	26.999
64.5	26.020
65.0	25.094
65.5	24.169
66.0	23.243
66.5	22.264
67.0	21.393
67.5	20.522
68.0	19.596
68.5	18.725
69.0	17.854
69.5	16.984
70.0	16.167
70.5	15.296
71.0	14.480
71.5	13.609
72.0	12.792
72.5	11.976
73.0	11.159
73.5	10.343
74.0	9.580
74.5	8.764
75.0	8.002
75.5	7.294
76.0	6.587
76.5	6.042
77.0	5.552
77.5	5.117
78.0	4.790
78.5	4.518
79.0	4.300
79.5	4.083
80.0	3.810
80.5	3.593
81.0	3.375
81.5	3.157
82.0	2.885
82.5	2.667

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CANDELA TABULATION - (Cont.)

83.0	2.504
83.5	2.286
84.0	2.069
84.5	1.851
85.0	1.633
85.5	1.470
86.0	1.252
86.5	1.089
87.0	0.871
87.5	0.708
88.0	0.544
88.5	0.381
89.0	0.218
89.5	0.163
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
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
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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	357.18	N.A.	40.30
0-30	632.30	N.A.	71.40
0-40	753.36	N.A.	85.00
0-60	850.12	N.A.	95.90
0-80	884.22	N.A.	99.80
0-90	886.11	N.A.	100.00
10-90	787.88	N.A.	88.90
20-40	396.17	N.A.	44.70
20-50	452.10	N.A.	51.00
40-70	121.70	N.A.	13.70
60-80	34.11	N.A.	3.80
70-80	9.16	N.A.	1.00
80-90	1.88	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	886.11	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	98.23
10-20	258.95
20-30	275.12
30-40	121.05
40-50	55.93
50-60	40.83
60-70	24.94
70-80	9.16
80-90	1.88
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	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	18.5	19.6	18.9	19.9	20.2	18.5	19.6	18.9	19.9	20.2
	3H	19.5	20.5	19.9	20.8	21.2	19.5	20.5	19.9	20.8	21.2
	4H	19.7	20.6	20.1	21.0	21.4	19.7	20.6	20.1	21.0	21.4
	6H	19.7	20.6	20.2	21.0	21.3	19.7	20.6	20.2	21.0	21.3
	8H	19.7	20.5	20.2	20.9	21.3	19.7	20.5	20.2	20.9	21.3
	12H	19.7	20.5	20.2	20.9	21.3	19.7	20.5	20.2	20.9	21.3

UGR Viewed Endwise

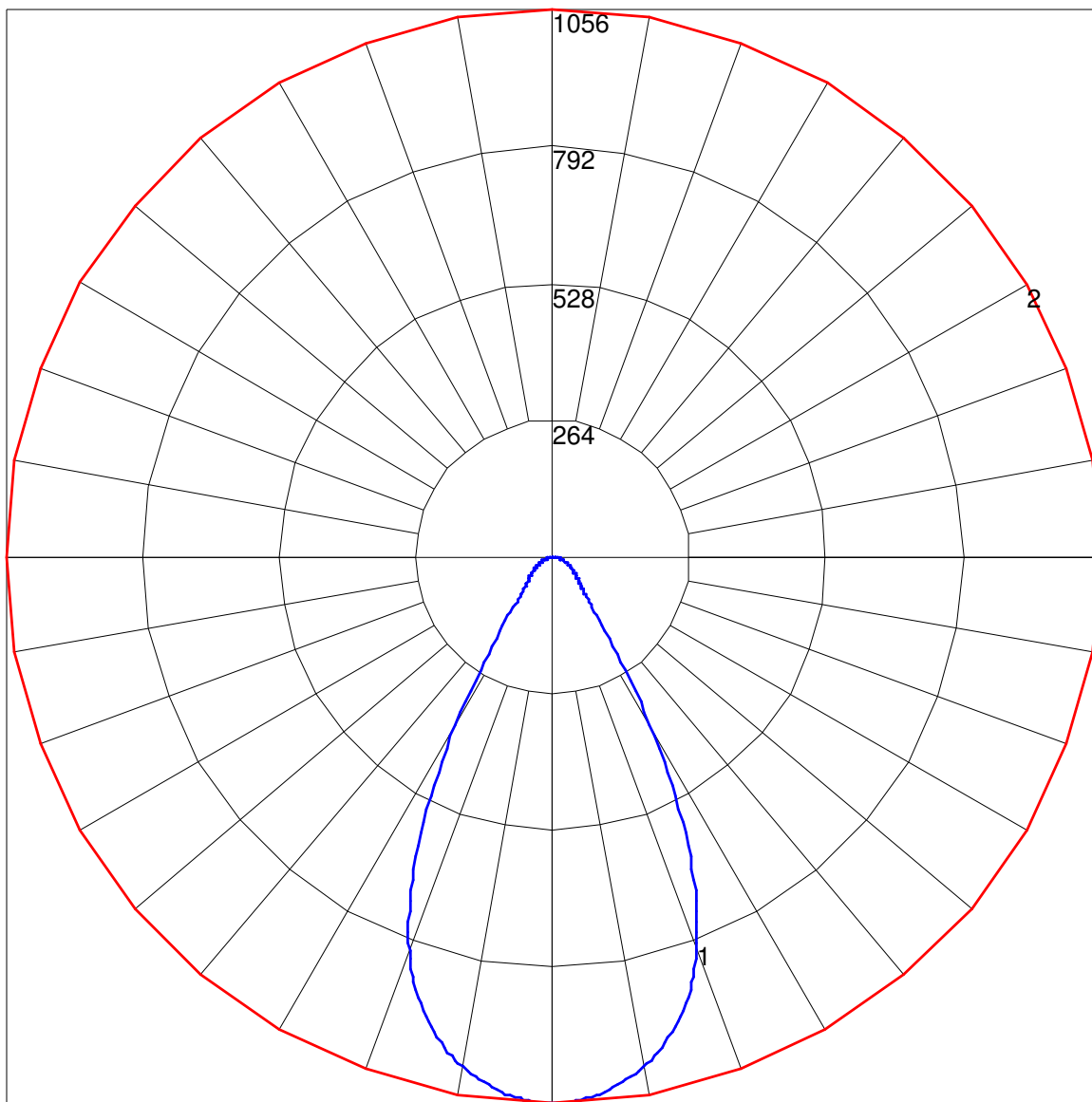
4H	2H	18.8	19.7	19.2	20.1	20.5	18.8	19.7	19.2	20.1	20.5
	3H	20.0	20.7	20.4	21.2	21.6	20.0	20.7	20.4	21.2	21.6
	4H	20.2	20.9	20.7	21.3	21.8	20.2	20.9	20.7	21.3	21.8
	6H	20.3	20.9	20.8	21.3	21.8	20.3	20.9	20.8	21.3	21.8
	8H	20.3	20.8	20.8	21.3	21.8	20.3	20.8	20.8	21.3	21.8
	12H	20.3	20.8	20.8	21.3	21.7	20.3	20.8	20.8	21.3	21.7

8H	4H	20.2	20.8	20.7	21.2	21.7	20.2	20.8	20.7	21.2	21.7
	6H	20.4	20.8	20.9	21.3	21.8	20.4	20.8	20.9	21.3	21.8
	8H	20.4	20.8	20.9	21.3	21.8	20.4	20.8	20.9	21.3	21.8
	12H	20.4	20.7	20.9	21.2	21.8	20.4	20.7	20.9	21.2	21.8

12H	4H	20.2	20.6	20.7	21.1	21.6	20.2	20.6	20.7	21.1	21.6
	6H	20.3	20.7	20.9	21.2	21.7	20.3	20.7	20.9	21.2	21.7
	8H	20.4	20.7	20.9	21.2	21.8	20.4	20.7	20.9	21.2	21.8

Maximum UGR = 21.8

POLAR GRAPH



Maximum Candela = 1056.025 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.)