

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L14-827-DIM-UNV-LW-OF_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM 13257153.01
[TESTLAB] UL Verification Services Inc.
[ISSUEDATE] 2025-05-20
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] V2DR-L14-827-DIM-UNV-LW-OF_
[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, Vandal-Resistant
[SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1296
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	75
Total Luminaire Watts	17.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.86
Spacing Criterion (90-270)	0.86
Spacing Criterion (Diagonal)	0.78
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	53468	53468	53468
55	46697	46697	46697
65	39892	39892	39892
75	32184	32184	32184
85	18025	18025	18025

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CANDELA TABULATION

	<u>0</u>
0.0	1529.531
0.5	1528.743
1.0	1528.743
1.5	1527.955
2.0	1527.167
2.5	1524.803
3.0	1522.439
3.5	1520.075
4.0	1516.923
4.5	1512.983
5.0	1509.043
5.5	1505.103
6.0	1501.163
6.5	1496.435
7.0	1491.707
7.5	1486.979
8.0	1481.463
8.5	1475.947
9.0	1469.643
9.5	1463.338
10.0	1456.246
10.5	1448.366
11.0	1440.486
11.5	1431.818
12.0	1423.150
12.5	1412.906
13.0	1402.662
13.5	1391.629
14.0	1379.809
14.5	1367.201
15.0	1353.805
15.5	1338.833
16.0	1323.860
16.5	1307.312
17.0	1289.188
17.5	1271.063
18.0	1250.575
18.5	1229.299
19.0	1205.658
19.5	1180.442
20.0	1154.438
20.5	1126.069
21.0	1096.913
21.5	1065.392
22.0	1032.296
22.5	998.411
23.0	962.951
23.5	926.702
24.0	889.666
24.5	851.841
25.0	813.228
25.5	775.010
26.0	736.318
26.5	698.021

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CANDELA TABULATION - (Cont.)

27.0	660.275
27.5	623.318
28.0	587.148
28.5	551.845
29.0	517.645
29.5	484.312
30.0	453.028
30.5	423.478
31.0	395.582
31.5	369.578
32.0	345.228
32.5	322.612
33.0	301.887
33.5	282.896
34.0	265.639
34.5	249.879
35.0	235.537
35.5	222.535
36.0	210.793
36.5	200.313
37.0	190.857
37.5	182.425
38.0	174.860
38.5	168.004
39.0	161.858
39.5	156.342
40.0	151.298
40.5	146.807
41.0	142.709
41.5	138.927
42.0	135.459
42.5	132.228
43.0	129.313
43.5	126.634
44.0	124.112
44.5	121.748
45.0	119.463
45.5	117.335
46.0	115.286
46.5	113.316
47.0	111.425
47.5	109.534
48.0	107.721
48.5	105.909
49.0	104.096
49.5	102.363
50.0	100.708
50.5	99.053
51.0	97.319
51.5	95.743
52.0	94.089
52.5	92.513
53.0	90.937
53.5	89.361
54.0	87.785
54.5	86.209

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CANDELA TABULATION - (Cont.)

55.0	84.632
55.5	83.056
56.0	81.559
56.5	79.904
57.0	78.407
57.5	76.831
58.0	75.255
58.5	73.679
59.0	72.103
59.5	70.527
60.0	68.951
60.5	67.375
61.0	65.799
61.5	64.144
62.0	62.647
62.5	61.071
63.0	59.416
63.5	57.840
64.0	56.264
64.5	54.767
65.0	53.270
65.5	51.772
66.0	50.275
66.5	48.857
67.0	47.360
67.5	46.020
68.0	44.601
68.5	43.262
69.0	41.922
69.5	40.504
70.0	39.164
70.5	37.825
71.0	36.564
71.5	35.224
72.0	33.885
72.5	32.624
73.0	31.284
73.5	30.023
74.0	28.841
74.5	27.580
75.0	26.320
75.5	25.138
76.0	23.956
76.5	22.774
77.0	21.670
77.5	20.488
78.0	19.385
78.5	18.282
79.0	17.179
79.5	16.075
80.0	15.051
80.5	13.948
81.0	12.923
81.5	11.899
82.0	10.875
82.5	9.850

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CANDELA TABULATION - (Cont.)

83.0	8.905
83.5	7.880
84.0	6.935
84.5	5.910
85.0	4.964
85.5	3.940
86.0	2.916
86.5	2.206
87.0	1.576
87.5	0.946
88.0	0.630
88.5	0.473
89.0	0.315
89.5	0.236
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
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125.5	0.000
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126.5	0.000
127.0	0.000
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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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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	517.10	N.A.	39.90
0-30	881.58	N.A.	68.00
0-40	1039.93	N.A.	80.20
0-60	1209.19	N.A.	93.30
0-80	1290.21	N.A.	99.50
0-90	1296.45	N.A.	100.00
10-90	1154.04	N.A.	89.00
20-40	522.83	N.A.	40.30
20-50	616.40	N.A.	47.50
40-70	222.23	N.A.	17.10
60-80	81.02	N.A.	6.20
70-80	28.05	N.A.	2.20
80-90	6.24	N.A.	0.50
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	1296.45	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	142.41
10-20	374.69
20-30	364.48
30-40	158.35
40-50	93.57
50-60	75.69
60-70	52.96
70-80	28.05
80-90	6.24
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	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76
4	94	86	80	75	93	85	79	75	83	78	74	81	76	73	79	75	72	70
5	89	80	74	69	88	79	73	69	77	72	68	76	71	68	74	70	67	65
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	63	61
7	81	71	64	60	79	70	64	60	69	63	59	67	63	59	66	62	59	57
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54
9	73	63	57	53	72	63	57	53	62	56	52	61	56	52	60	55	52	51
10	70	60	54	50	69	59	54	50	58	53	49	58	53	49	57	52	49	48

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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

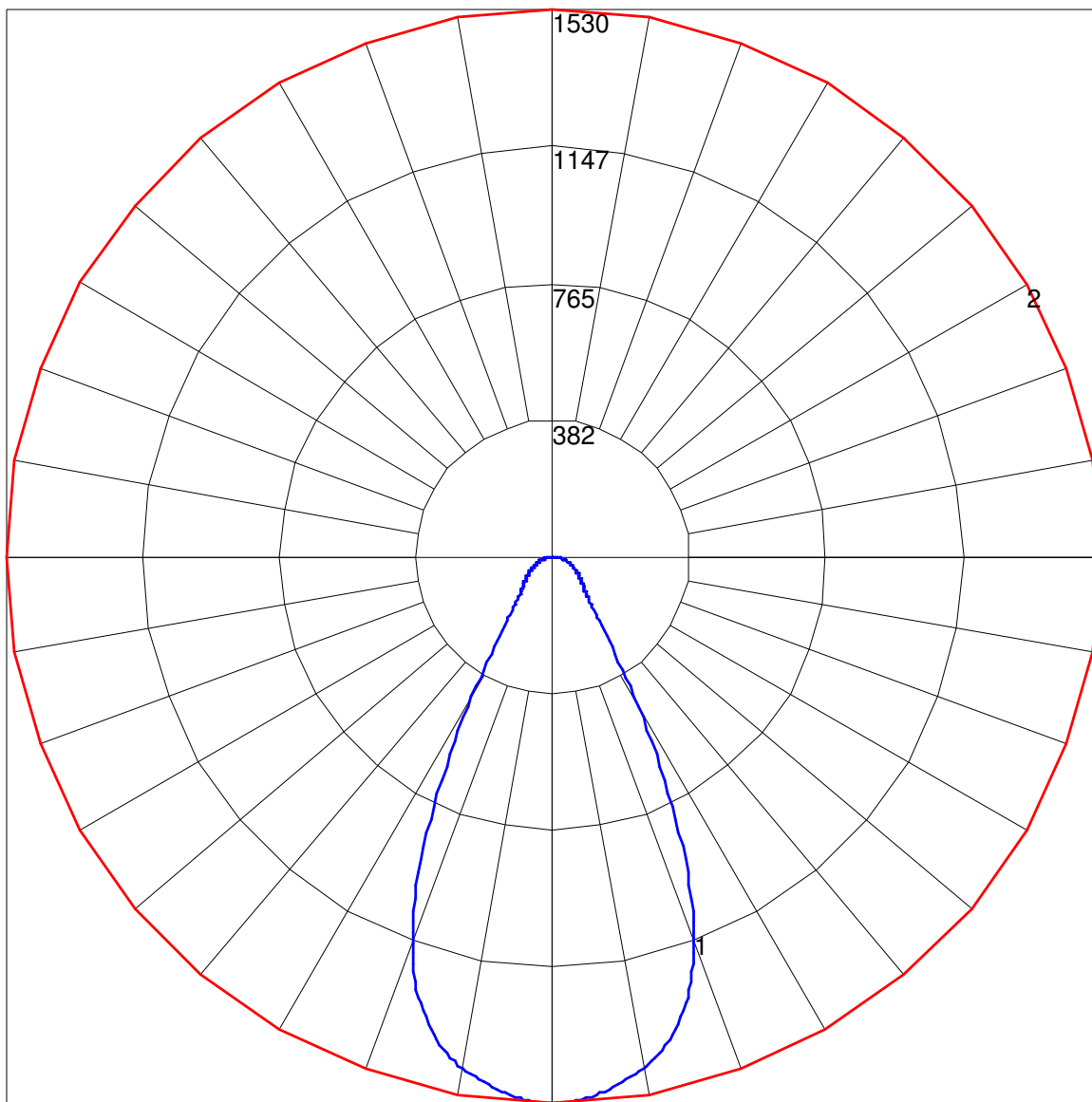
X=2H	Y=2H	21.6	22.7	21.9	23.1	23.4	21.6	22.7	21.9	23.1	23.4
	3H	23.1	24.1	23.5	24.4	24.8	23.1	24.1	23.5	24.4	24.8
	4H	23.6	24.6	24.0	24.9	25.3	23.6	24.6	24.0	24.9	25.3
	6H	23.9	24.8	24.3	25.2	25.6	23.9	24.8	24.3	25.2	25.6
	8H	24.0	24.9	24.4	25.3	25.7	24.0	24.9	24.4	25.3	25.7
	12H	24.0	24.9	24.5	25.2	25.7	24.0	24.9	24.5	25.2	25.7

UGR Viewed Endwise

4H	2H	22.1	23.0	22.5	23.4	23.8	22.1	23.0	22.5	23.4	23.8
	3H	23.7	24.5	24.1	24.9	25.3	23.7	24.5	24.1	24.9	25.3
	4H	24.4	25.1	24.8	25.5	26.0	24.4	25.1	24.8	25.5	26.0
	6H	24.8	25.4	25.3	25.9	26.4	24.8	25.4	25.3	25.9	26.4
	8H	24.9	25.5	25.4	26.0	26.4	24.9	25.5	25.4	26.0	26.4
	12H	25.0	25.5	25.5	26.0	26.5	25.0	25.5	25.5	26.0	26.5
8H	4H	24.6	25.1	25.0	25.6	26.1	24.6	25.1	25.0	25.6	26.1
	6H	25.1	25.6	25.6	26.1	26.6	25.1	25.6	25.6	26.1	26.6
	8H	25.3	25.7	25.8	26.2	26.7	25.3	25.7	25.8	26.2	26.7
	12H	25.4	25.8	25.9	26.3	26.8	25.4	25.8	25.9	26.3	26.8
12H	4H	24.5	25.1	25.0	25.5	26.0	24.5	25.1	25.0	25.5	26.0
	6H	25.1	25.6	25.7	26.0	26.6	25.1	25.6	25.7	26.0	26.6
	8H	25.4	25.7	25.9	26.2	26.8	25.4	25.7	25.9	26.2	26.8

Maximum UGR = 26.8

POLAR GRAPH



Maximum Candela = 1529.531 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.)