

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L18-827-DIM-UNV-RW-OF-WH_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM 13257153.03
[TESTLAB] UL Verification Services Inc.
[ISSUE DATE] 2025-05-20
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] V2DR-L18-827-DIM-UNV-RW-OF-WH_
[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	1612
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	67
Total Luminaire Watts	23.9
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	57784	57784	57784
55	45724	45724	45724
65	34179	34179	34179
75	17796	17796	17796
85	10785	10785	10785

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CANDELA TABULATION

	<u>0</u>
0.0	1920.743
0.5	1920.743
1.0	1919.753
1.5	1918.763
2.0	1918.763
2.5	1916.783
3.0	1913.812
3.5	1909.852
4.0	1905.892
4.5	1901.932
5.0	1895.991
5.5	1891.041
6.0	1885.100
6.5	1878.170
7.0	1871.239
7.5	1864.309
8.0	1857.378
8.5	1849.458
9.0	1840.547
9.5	1832.626
10.0	1823.716
10.5	1813.815
11.0	1802.924
11.5	1792.033
12.0	1780.152
12.5	1768.272
13.0	1755.401
13.5	1741.540
14.0	1726.688
14.5	1711.837
15.0	1695.006
15.5	1678.175
16.0	1659.363
16.5	1640.552
17.0	1620.751
17.5	1599.959
18.0	1578.177
18.5	1554.416
19.0	1529.664
19.5	1502.932
20.0	1475.210
20.5	1446.498
21.0	1415.805
21.5	1384.123
22.0	1349.470
22.5	1314.818
23.0	1278.185
23.5	1240.562
24.0	1200.959
24.5	1161.356
25.0	1120.763
25.5	1078.190
26.0	1034.627
26.5	991.064

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CANDELA TABULATION - (Cont.)

27.0	947.798
27.5	904.333
28.0	860.473
28.5	816.811
29.0	772.158
29.5	727.209
30.0	682.656
30.5	638.796
31.0	595.529
31.5	553.748
32.0	513.551
32.5	475.532
33.0	440.286
33.5	407.613
34.0	377.218
34.5	349.397
35.0	324.150
35.5	300.982
36.0	279.993
36.5	261.181
37.0	244.449
37.5	229.499
38.0	215.935
38.5	203.856
39.0	193.262
39.5	183.956
40.0	175.639
40.5	168.412
41.0	161.976
41.5	156.234
42.0	151.085
42.5	146.531
43.0	142.373
43.5	138.709
44.0	135.244
44.5	132.076
45.0	129.106
45.5	126.234
46.0	123.561
46.5	120.888
47.0	118.413
47.5	115.938
48.0	113.462
48.5	111.086
49.0	108.710
49.5	106.334
50.0	104.057
50.5	101.879
51.0	99.601
51.5	97.423
52.0	95.344
52.5	93.166
53.0	91.087
53.5	89.008
54.0	86.928
54.5	84.849

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CANDELA TABULATION - (Cont.)

55.0	82.869
55.5	80.889
56.0	78.909
56.5	76.929
57.0	74.949
57.5	73.067
58.0	71.087
58.5	69.206
59.0	67.325
59.5	65.543
60.0	63.662
60.5	61.781
61.0	59.899
61.5	58.117
62.0	56.236
62.5	54.454
63.0	52.672
63.5	50.890
64.0	49.108
64.5	47.326
65.0	45.642
65.5	43.959
66.0	42.276
66.5	40.494
67.0	38.910
67.5	37.326
68.0	35.643
68.5	34.059
69.0	32.474
69.5	30.890
70.0	29.405
70.5	27.821
71.0	26.336
71.5	24.752
72.0	23.267
72.5	21.782
73.0	20.297
73.5	18.811
74.0	17.425
74.5	15.940
75.0	14.554
75.5	13.267
76.0	11.980
76.5	10.990
77.0	10.099
77.5	9.307
78.0	8.713
78.5	8.218
79.0	7.822
79.5	7.426
80.0	6.931
80.5	6.534
81.0	6.138
81.5	5.742
82.0	5.247
82.5	4.851

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CANDELA TABULATION - (Cont.)

83.0	4.554
83.5	4.158
84.0	3.762
84.5	3.366
85.0	2.970
85.5	2.673
86.0	2.277
86.5	1.980
87.0	1.584
87.5	1.287
88.0	0.990
88.5	0.693
89.0	0.396
89.5	0.297
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
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120.0	0.000
120.5	0.000
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125.0	0.000
125.5	0.000
126.0	0.000
126.5	0.000
127.0	0.000
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128.0	0.000
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131.5	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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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	649.66	N.A.	40.30
0-30	1150.06	N.A.	71.40
0-40	1370.23	N.A.	85.00
0-60	1546.23	N.A.	95.90
0-80	1608.26	N.A.	99.80
0-90	1611.69	N.A.	100.00
10-90	1433.03	N.A.	88.90
20-40	720.58	N.A.	44.70
20-50	822.30	N.A.	51.00
40-70	221.36	N.A.	13.70
60-80	62.03	N.A.	3.80
70-80	16.67	N.A.	1.00
80-90	3.42	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	1611.69	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	178.66
10-20	471.00
20-30	500.40
30-40	220.18
40-50	101.72
50-60	74.27
60-70	45.36
70-80	16.67
80-90	3.42
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	79
4	96	88	82	78	94	87	81	77	84	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	72	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

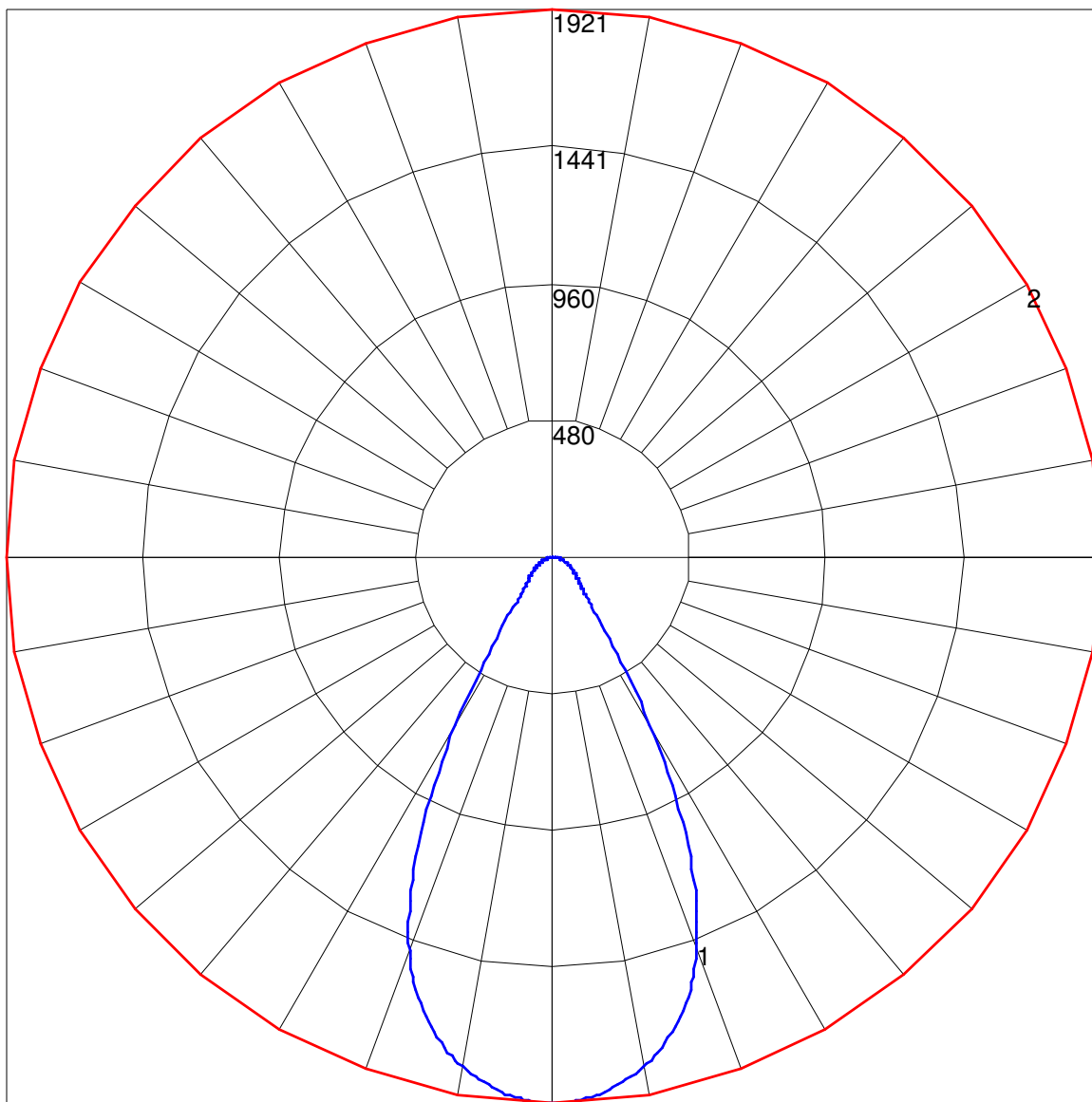
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UGR TABLE - CORRECTED

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					UGR Viewed Endwise				
X=2H	Y=2H	20.6	21.7	21.0	22.0	22.3	20.6	21.7	21.0	22.0	22.3
	3H	21.6	22.6	22.0	22.9	23.3	21.6	22.6	22.0	22.9	23.3
	4H	21.8	22.7	22.2	23.1	23.5	21.8	22.7	22.2	23.1	23.5
	6H	21.8	22.7	22.3	23.1	23.5	21.8	22.7	22.3	23.1	23.5
	8H	21.8	22.6	22.3	23.0	23.4	21.8	22.6	22.3	23.0	23.4
	12H	21.8	22.6	22.3	23.0	23.4	21.8	22.6	22.3	23.0	23.4
4H	2H	20.9	21.8	21.3	22.2	22.6	20.9	21.8	21.3	22.2	22.6
	3H	22.1	22.8	22.5	23.3	23.7	22.1	22.8	22.5	23.3	23.7
	4H	22.3	23.0	22.8	23.4	23.9	22.3	23.0	22.8	23.4	23.9
	6H	22.4	23.0	22.9	23.4	23.9	22.4	23.0	22.9	23.4	23.9
	8H	22.4	22.9	22.9	23.4	23.9	22.4	22.9	22.9	23.4	23.9
	12H	22.4	22.9	22.9	23.4	23.8	22.4	22.9	22.9	23.4	23.8
8H	4H	22.3	22.9	22.8	23.3	23.8	22.3	22.9	22.8	23.3	23.8
	6H	22.5	22.9	23.0	23.4	23.9	22.5	22.9	23.0	23.4	23.9
	8H	22.5	22.9	23.0	23.4	23.9	22.5	22.9	23.0	23.4	23.9
	12H	22.5	22.8	23.0	23.3	23.9	22.5	22.8	23.0	23.3	23.9
12H	4H	22.3	22.8	22.8	23.2	23.7	22.3	22.8	22.8	23.2	23.7
	6H	22.4	22.8	23.0	23.3	23.8	22.4	22.8	23.0	23.3	23.8
	8H	22.5	22.8	23.0	23.3	23.9	22.5	22.8	23.0	23.3	23.9

Maximum UGR = 23.9

POLAR GRAPH



Maximum Candela = 1920.743 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.)