

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L18-827-DIM-UNV-LW-OF_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM 13257153.01
[TESTLAB] UL Verification Services Inc.
[ISSUE DATE] 2025-05-20
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] V2DR-L18-827-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	1661
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	69
Total Luminaire Watts	23.9
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	68495	68495	68495
55	59821	59821	59821
65	51103	51103	51103
75	41229	41229	41229
85	23094	23094	23094

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CANDELA TABULATION

	<u>0</u>
0.0	1959.406
0.5	1958.397
1.0	1958.397
1.5	1957.387
2.0	1956.378
2.5	1953.350
3.0	1950.321
3.5	1947.293
4.0	1943.255
4.5	1938.207
5.0	1933.160
5.5	1928.112
6.0	1923.065
6.5	1917.008
7.0	1910.951
7.5	1904.894
8.0	1897.828
8.5	1890.762
9.0	1882.686
9.5	1874.610
10.0	1865.525
10.5	1855.430
11.0	1845.335
11.5	1834.231
12.0	1823.126
12.5	1810.003
13.0	1796.880
13.5	1782.747
14.0	1767.605
14.5	1751.453
15.0	1734.292
15.5	1715.112
16.0	1695.931
16.5	1674.732
17.0	1651.514
17.5	1628.296
18.0	1602.049
18.5	1574.793
19.0	1544.509
19.5	1512.206
20.0	1478.893
20.5	1442.551
21.0	1405.200
21.5	1364.821
22.0	1322.423
22.5	1279.015
23.0	1233.588
23.5	1187.152
24.0	1139.706
24.5	1091.251
25.0	1041.786
25.5	992.827
26.0	943.261
26.5	894.200

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CANDELA TABULATION - (Cont.)

27.0	845.846
27.5	798.501
28.0	752.166
28.5	706.941
29.0	663.129
29.5	620.428
30.0	580.352
30.5	542.496
31.0	506.760
31.5	473.448
32.0	442.254
32.5	413.282
33.0	386.733
33.5	362.404
34.0	340.297
34.5	320.107
35.0	301.734
35.5	285.078
36.0	270.037
36.5	256.611
37.0	244.497
37.5	233.695
38.0	224.004
38.5	215.222
39.0	207.348
39.5	200.281
40.0	193.821
40.5	188.067
41.0	182.817
41.5	177.972
42.0	173.530
42.5	169.391
43.0	165.656
43.5	162.224
44.0	158.994
44.5	155.965
45.0	153.038
45.5	150.312
46.0	147.687
46.5	145.164
47.0	142.741
47.5	140.318
48.0	137.996
48.5	135.675
49.0	133.353
49.5	131.132
50.0	129.012
50.5	126.892
51.0	124.671
51.5	122.652
52.0	120.532
52.5	118.513
53.0	116.494
53.5	114.475
54.0	112.456
54.5	110.437

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CANDELA TABULATION - (Cont.)

55.0	108.418
55.5	106.400
56.0	104.481
56.5	102.362
57.0	100.444
57.5	98.425
58.0	96.406
58.5	94.387
59.0	92.368
59.5	90.349
60.0	88.330
60.5	86.311
61.0	84.292
61.5	82.172
62.0	80.254
62.5	78.235
63.0	76.115
63.5	74.096
64.0	72.077
64.5	70.159
65.0	68.241
65.5	66.323
66.0	64.405
66.5	62.588
67.0	60.670
67.5	58.954
68.0	57.137
68.5	55.421
69.0	53.704
69.5	51.887
70.0	50.171
70.5	48.455
71.0	46.840
71.5	45.124
72.0	43.408
72.5	41.793
73.0	40.076
73.5	38.461
74.0	36.947
74.5	35.332
75.0	33.717
75.5	32.203
76.0	30.688
76.5	29.174
77.0	27.761
77.5	26.247
78.0	24.833
78.5	23.420
79.0	22.007
79.5	20.593
80.0	19.281
80.5	17.868
81.0	16.556
81.5	15.243
82.0	13.931
82.5	12.619

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CANDELA TABULATION - (Cont.)

83.0	11.407
83.5	10.095
84.0	8.883
84.5	7.571
85.0	6.360
85.5	5.047
86.0	3.735
86.5	2.827
87.0	2.019
87.5	1.211
88.0	0.808
88.5	0.606
89.0	0.404
89.5	0.303
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
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97.5	0.000
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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
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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
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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
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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	662.43	N.A.	39.90
0-30	1129.34	N.A.	68.00
0-40	1332.2	N.A.	80.20
0-60	1549.03	N.A.	93.30
0-80	1652.82	N.A.	99.50
0-90	1660.82	N.A.	100.00
10-90	1478.39	N.A.	89.00
20-40	669.77	N.A.	40.30
20-50	789.64	N.A.	47.50
40-70	284.68	N.A.	17.10
60-80	103.79	N.A.	6.20
70-80	35.94	N.A.	2.20
80-90	8.00	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	1660.82	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	182.43
10-20	480.00
20-30	466.91
30-40	202.86
40-50	119.87
50-60	96.97
60-70	67.85
70-80	35.94
80-90	8.00
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	97	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

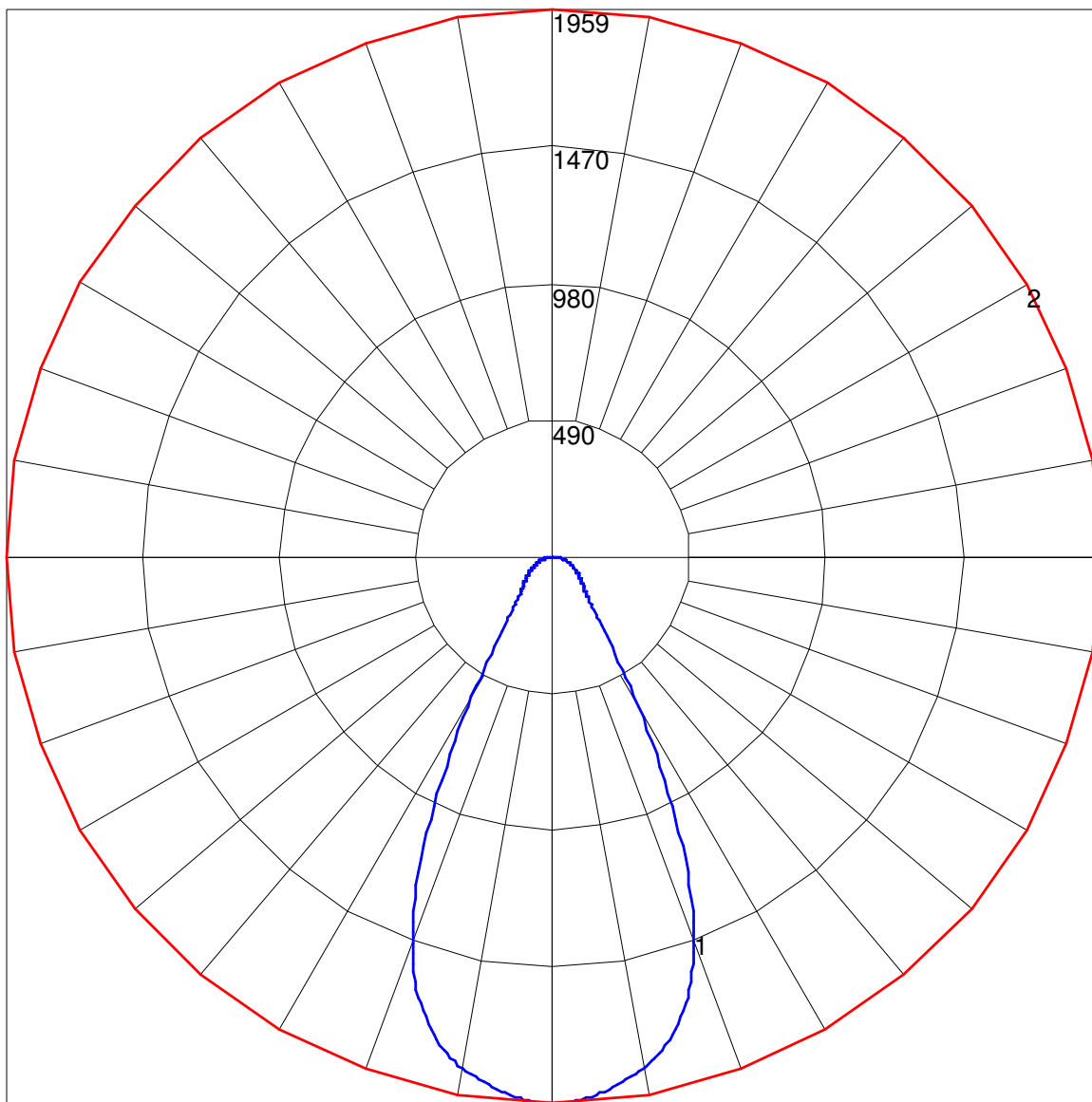
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	22.5	23.6	22.8	24.0	24.3	22.5	23.6	22.8	24.0	24.3
	3H	24.0	25.0	24.4	25.3	25.7	24.0	25.0	24.4	25.3	25.7
	4H	24.5	25.5	24.9	25.8	26.2	24.5	25.5	24.9	25.8	26.2
	6H	24.8	25.7	25.2	26.1	26.5	24.8	25.7	25.2	26.1	26.5
	8H	24.9	25.8	25.3	26.2	26.6	24.9	25.8	25.3	26.2	26.6
	12H	24.9	25.8	25.4	26.1	26.6	24.9	25.8	25.4	26.1	26.6
4H	2H	23.0	23.9	23.4	24.3	24.7	23.0	23.9	23.4	24.3	24.7
	3H	24.6	25.4	25.0	25.8	26.3	24.6	25.4	25.0	25.8	26.3
	4H	25.3	26.0	25.7	26.4	26.9	25.3	26.0	25.7	26.4	26.9
	6H	25.7	26.3	26.2	26.8	27.3	25.7	26.3	26.2	26.8	27.3
	8H	25.8	26.4	26.3	26.9	27.3	25.8	26.4	26.3	26.9	27.3
	12H	25.9	26.4	26.4	26.9	27.4	25.9	26.4	26.4	26.9	27.4
8H	4H	25.5	26.0	25.9	26.5	27.0	25.5	26.0	25.9	26.5	27.0
	6H	26.0	26.5	26.5	27.0	27.5	26.0	26.5	26.5	27.0	27.5
	8H	26.2	26.6	26.7	27.1	27.6	26.2	26.6	26.7	27.1	27.6
	12H	26.3	26.7	26.8	27.2	27.7	26.3	26.7	26.8	27.2	27.7
12H	4H	25.4	26.0	25.9	26.4	26.9	25.4	26.0	25.9	26.4	26.9
	6H	26.0	26.5	26.6	26.9	27.5	26.0	26.5	26.6	26.9	27.5
	8H	26.3	26.6	26.8	27.1	27.7	26.3	26.6	26.8	27.1	27.7

Maximum UGR = 27.7

POLAR GRAPH



Maximum Candela = 1959.406 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.)