

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L18-927-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-L18-927-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	1331
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	56
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	47734	47734	47734
55	37772	37772	37772
65	28236	28236	28236
75	14702	14702	14702
85	8911	8911	8911

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CANDELA TABULATION

	<u>0</u>
0.0	1586.701
0.5	1586.701
1.0	1585.883
1.5	1585.065
2.0	1585.065
2.5	1583.429
3.0	1580.975
3.5	1577.704
4.0	1574.432
4.5	1571.161
5.0	1566.253
5.5	1562.164
6.0	1557.257
6.5	1551.531
7.0	1545.806
7.5	1540.081
8.0	1534.356
8.5	1527.813
9.0	1520.452
9.5	1513.909
10.0	1506.548
10.5	1498.369
11.0	1489.372
11.5	1480.375
12.0	1470.561
12.5	1460.746
13.0	1450.113
13.5	1438.663
14.0	1426.395
14.5	1414.126
15.0	1400.222
15.5	1386.318
16.0	1370.778
16.5	1355.239
17.0	1338.881
17.5	1321.705
18.0	1303.712
18.5	1284.082
19.0	1263.635
19.5	1241.552
20.0	1218.651
20.5	1194.933
21.0	1169.578
21.5	1143.406
22.0	1114.780
22.5	1086.154
23.0	1055.892
23.5	1024.812
24.0	992.097
24.5	959.381
25.0	925.848
25.5	890.679
26.0	854.692
26.5	818.705

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CANDELA TABULATION - (Cont.)

27.0	782.963
27.5	747.058
28.0	710.825
28.5	674.757
29.0	637.870
29.5	600.738
30.0	563.933
30.5	527.701
31.0	491.959
31.5	457.444
32.0	424.238
32.5	392.831
33.0	363.714
33.5	336.724
34.0	311.615
34.5	288.632
35.0	267.776
35.5	248.638
36.0	231.298
36.5	215.759
37.0	201.936
37.5	189.586
38.0	178.381
38.5	168.403
39.0	159.652
39.5	151.963
40.0	145.093
40.5	139.123
41.0	133.806
41.5	129.063
42.0	124.810
42.5	121.047
43.0	117.612
43.5	114.586
44.0	111.723
44.5	109.106
45.0	106.652
45.5	104.281
46.0	102.072
46.5	99.864
47.0	97.819
47.5	95.775
48.0	93.730
48.5	91.767
49.0	89.804
49.5	87.841
50.0	85.960
50.5	84.161
51.0	82.279
51.5	80.480
52.0	78.763
52.5	76.963
53.0	75.246
53.5	73.528
54.0	71.810
54.5	70.093

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CANDELA TABULATION - (Cont.)

55.0	68.457
55.5	66.821
56.0	65.186
56.5	63.550
57.0	61.914
57.5	60.360
58.0	58.724
58.5	57.170
59.0	55.616
59.5	54.144
60.0	52.590
60.5	51.036
61.0	49.482
61.5	48.010
62.0	46.456
62.5	44.984
63.0	43.512
63.5	42.039
64.0	40.567
64.5	39.095
65.0	37.705
65.5	36.314
66.0	34.924
66.5	33.452
67.0	32.143
67.5	30.834
68.0	29.444
68.5	28.135
69.0	26.827
69.5	25.518
70.0	24.291
70.5	22.983
71.0	21.756
71.5	20.447
72.0	19.220
72.5	17.994
73.0	16.767
73.5	15.540
74.0	14.395
74.5	13.168
75.0	12.023
75.5	10.960
76.0	9.896
76.5	9.079
77.0	8.342
77.5	7.688
78.0	7.197
78.5	6.788
79.0	6.461
79.5	6.134
80.0	5.725
80.5	5.398
81.0	5.071
81.5	4.744
82.0	4.335
82.5	4.008

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CANDELA TABULATION - (Cont.)

83.0	3.762
83.5	3.435
84.0	3.108
84.5	2.781
85.0	2.454
85.5	2.208
86.0	1.881
86.5	1.636
87.0	1.309
87.5	1.063
88.0	0.818
88.5	0.573
89.0	0.327
89.5	0.245
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
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130.0	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
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150.0	0.000
150.5	0.000
151.0	0.000
151.5	0.000
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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	536.67	N.A.	40.30
0-30	950.05	N.A.	71.40
0-40	1131.93	N.A.	85.00
0-60	1277.32	N.A.	95.90
0-80	1328.56	N.A.	99.80
0-90	1331.39	N.A.	100.00
10-90	1183.8	N.A.	88.90
20-40	595.26	N.A.	44.70
20-50	679.29	N.A.	51.00
40-70	182.86	N.A.	13.70
60-80	51.24	N.A.	3.80
70-80	13.77	N.A.	1.00
80-90	2.83	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	1331.39	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	147.59
10-20	389.08
20-30	413.38
30-40	181.88
40-50	84.03
50-60	61.36
60-70	37.48
70-80	13.77
80-90	2.83
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	111	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	79	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	62	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	19.9	21.0	20.3	21.3	21.6	19.9	21.0	20.3	21.3	21.6
	3H	20.9	21.9	21.3	22.2	22.6	20.9	21.9	21.3	22.2	22.6
	4H	21.1	22.0	21.5	22.4	22.8	21.1	22.0	21.5	22.4	22.8
	6H	21.1	22.0	21.6	22.4	22.7	21.1	22.0	21.6	22.4	22.7
	8H	21.1	21.9	21.6	22.3	22.7	21.1	21.9	21.6	22.3	22.7
	12H	21.1	21.9	21.6	22.3	22.7	21.1	21.9	21.6	22.3	22.7

UGR Viewed Endwise

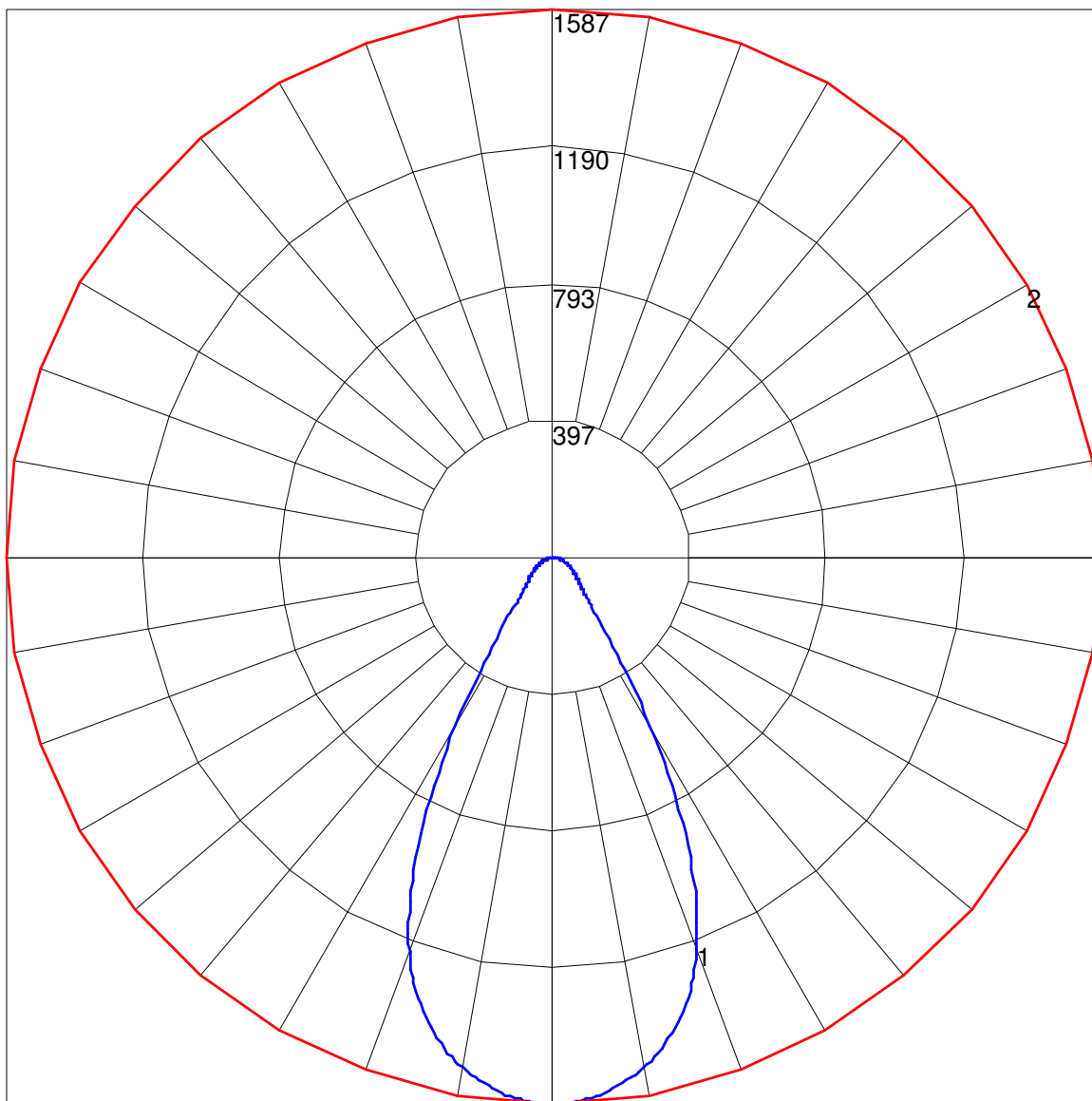
4H	2H	20.2	21.1	20.6	21.5	21.9	20.2	21.1	20.6	21.5	21.9
	3H	21.4	22.1	21.8	22.6	23.0	21.4	22.1	21.8	22.6	23.0
	4H	21.6	22.3	22.1	22.7	23.2	21.6	22.3	22.1	22.7	23.2
	6H	21.7	22.3	22.2	22.7	23.2	21.7	22.3	22.2	22.7	23.2
	8H	21.7	22.2	22.2	22.7	23.2	21.7	22.2	22.2	22.7	23.2
	12H	21.7	22.2	22.2	22.7	23.1	21.7	22.2	22.2	22.7	23.1

8H	4H	21.6	22.2	22.1	22.6	23.1	21.6	22.2	22.1	22.6	23.1
	6H	21.8	22.2	22.3	22.7	23.2	21.8	22.2	22.3	22.7	23.2
	8H	21.8	22.2	22.3	22.7	23.2	21.8	22.2	22.3	22.7	23.2
	12H	21.8	22.1	22.3	22.6	23.2	21.8	22.1	22.3	22.6	23.2

12H	4H	21.6	22.0	22.1	22.5	23.0	21.6	22.0	22.1	22.5	23.0
	6H	21.7	22.1	22.3	22.6	23.1	21.7	22.1	22.3	22.6	23.1
	8H	21.8	22.1	22.3	22.6	23.2	21.8	22.1	22.3	22.6	23.2

Maximum UGR = 23.2

POLAR GRAPH



Maximum Candela = 1586.701 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.)