

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L18-927-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-L18-927-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	1052
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	44
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	37710	37710	37710
55	29840	29840	29840
65	22306	22306	22306
75	11614	11614	11614
85	7037	7037	7037

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CANDELA TABULATION

	<u>0</u>
0.0	1253.494
0.5	1253.494
1.0	1252.847
1.5	1252.201
2.0	1252.201
2.5	1250.909
3.0	1248.971
3.5	1246.386
4.0	1243.802
4.5	1241.217
5.0	1237.340
5.5	1234.110
6.0	1230.233
6.5	1225.710
7.0	1221.187
7.5	1216.664
8.0	1212.141
8.5	1206.972
9.0	1201.157
9.5	1195.988
10.0	1190.173
10.5	1183.711
11.0	1176.604
11.5	1169.497
12.0	1161.743
12.5	1153.989
13.0	1145.590
13.5	1136.544
14.0	1126.852
14.5	1117.160
15.0	1106.176
15.5	1095.192
16.0	1082.915
16.5	1070.639
17.0	1057.716
17.5	1044.147
18.0	1029.932
18.5	1014.425
19.0	998.272
19.5	980.826
20.0	962.735
20.5	943.997
21.0	923.967
21.5	903.291
22.0	880.676
22.5	858.062
23.0	834.155
23.5	809.602
24.0	783.757
24.5	757.911
25.0	731.420
25.5	703.636
26.0	675.207
26.5	646.777

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CANDELA TABULATION - (Cont.)

27.0	618.541
27.5	590.176
28.0	561.552
28.5	533.058
29.0	503.917
29.5	474.583
30.0	445.507
30.5	416.884
31.0	388.648
31.5	361.381
32.0	335.148
32.5	310.337
33.0	287.334
33.5	266.012
34.0	246.176
34.5	228.020
35.0	211.543
35.5	196.424
36.0	182.726
36.5	170.449
37.0	159.530
37.5	149.773
38.0	140.921
38.5	133.038
39.0	126.125
39.5	120.051
40.0	114.624
40.5	109.907
41.0	105.707
41.5	101.959
42.0	98.600
42.5	95.627
43.0	92.914
43.5	90.523
44.0	88.261
44.5	86.194
45.0	84.255
45.5	82.382
46.0	80.637
46.5	78.893
47.0	77.277
47.5	75.662
48.0	74.047
48.5	72.496
49.0	70.945
49.5	69.394
50.0	67.908
50.5	66.487
51.0	65.001
51.5	63.579
52.0	62.222
52.5	60.801
53.0	59.444
53.5	58.087
54.0	56.730
54.5	55.373

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CANDELA TABULATION - (Cont.)

55.0	54.081
55.5	52.789
56.0	51.497
56.5	50.204
57.0	48.912
57.5	47.684
58.0	46.392
58.5	45.165
59.0	43.937
59.5	42.774
60.0	41.546
60.5	40.319
61.0	39.091
61.5	37.928
62.0	36.700
62.5	35.537
63.0	34.374
63.5	33.211
64.0	32.048
64.5	30.885
65.0	29.787
65.5	28.688
66.0	27.590
66.5	26.427
67.0	25.393
67.5	24.359
68.0	23.261
68.5	22.227
69.0	21.193
69.5	20.159
70.0	19.190
70.5	18.156
71.0	17.187
71.5	16.153
72.0	15.184
72.5	14.215
73.0	13.246
73.5	12.276
74.0	11.372
74.5	10.403
75.0	9.498
75.5	8.658
76.0	7.818
76.5	7.172
77.0	6.591
77.5	6.074
78.0	5.686
78.5	5.363
79.0	5.104
79.5	4.846
80.0	4.523
80.5	4.264
81.0	4.006
81.5	3.748
82.0	3.424
82.5	3.166

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CANDELA TABULATION - (Cont.)

83.0	2.972
83.5	2.714
84.0	2.455
84.5	2.197
85.0	1.938
85.5	1.745
86.0	1.486
86.5	1.292
87.0	1.034
87.5	0.840
88.0	0.646
88.5	0.452
89.0	0.258
89.5	0.194
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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : V2DR-L18-927-DIM-UNV-RW-OF-BL_.IES****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
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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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	423.97	N.A.	40.30
0-30	750.54	N.A.	71.40
0-40	894.23	N.A.	85.00
0-60	1009.08	N.A.	95.90
0-80	1049.57	N.A.	99.80
0-90	1051.8	N.A.	100.00
10-90	935.21	N.A.	88.90
20-40	470.26	N.A.	44.70
20-50	536.64	N.A.	51.00
40-70	144.46	N.A.	13.70
60-80	40.48	N.A.	3.80
70-80	10.88	N.A.	1.00
80-90	2.24	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	1051.8	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	116.60
10-20	307.38
20-30	326.57
30-40	143.69
40-50	66.38
50-60	48.47
60-70	29.61
70-80	10.88
80-90	2.24
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	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

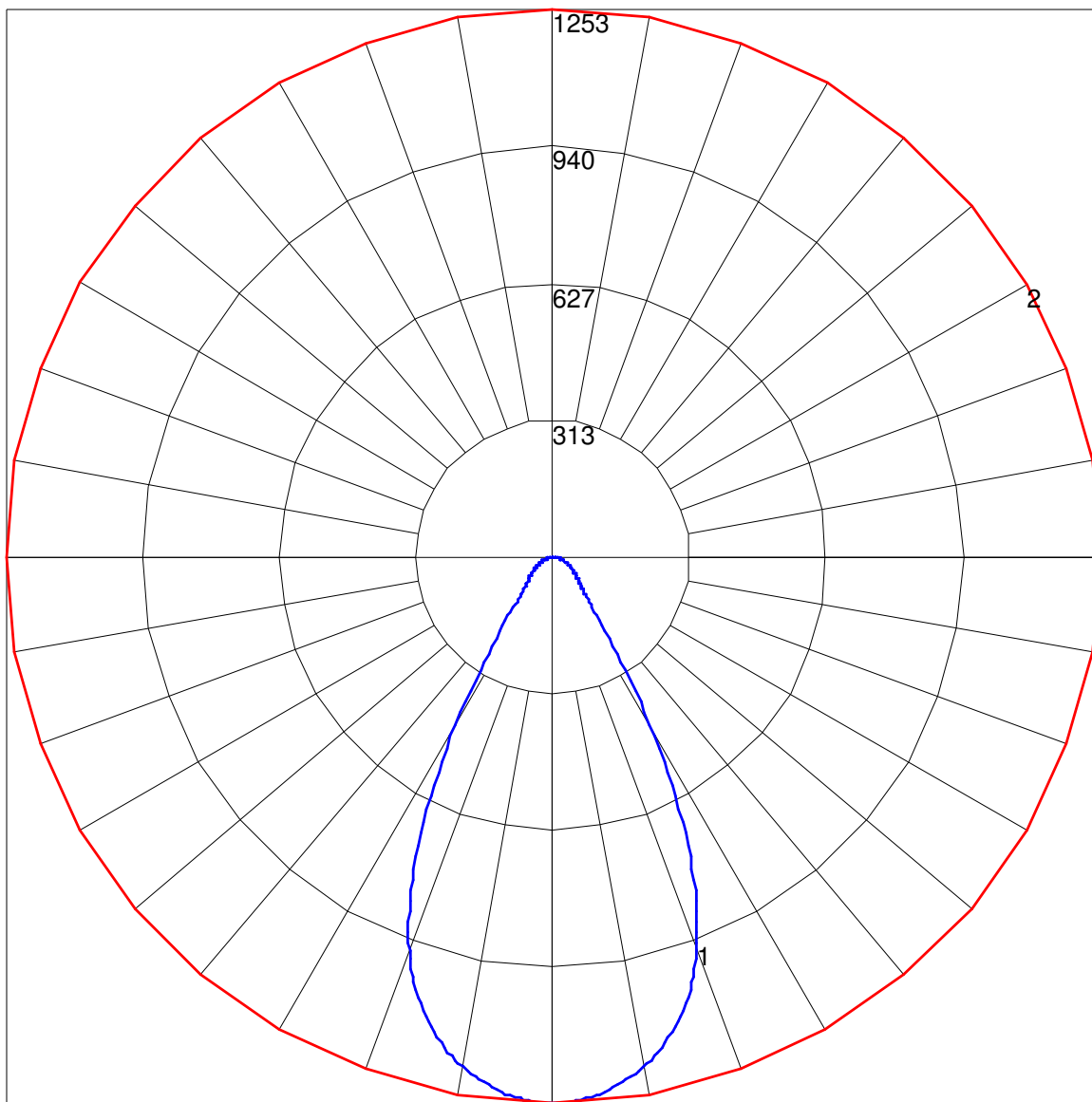
X=2H	Y=2H	19.1	20.2	19.5	20.5	20.8	19.1	20.2	19.5	20.5	20.8
	3H	20.1	21.1	20.5	21.4	21.8	20.1	21.1	20.5	21.4	21.8
	4H	20.3	21.2	20.7	21.6	22.0	20.3	21.2	20.7	21.6	22.0
	6H	20.3	21.2	20.8	21.6	21.9	20.3	21.2	20.8	21.6	21.9
	8H	20.3	21.1	20.8	21.5	21.9	20.3	21.1	20.8	21.5	21.9
	12H	20.3	21.1	20.8	21.5	21.9	20.3	21.1	20.8	21.5	21.9

UGR Viewed Endwise

4H	2H	19.4	20.3	19.8	20.7	21.1	19.4	20.3	19.8	20.7	21.1
	3H	20.6	21.3	21.0	21.8	22.2	20.6	21.3	21.0	21.8	22.2
	4H	20.8	21.5	21.3	21.9	22.4	20.8	21.5	21.3	21.9	22.4
	6H	20.9	21.5	21.4	21.9	22.4	20.9	21.5	21.4	21.9	22.4
	8H	20.9	21.4	21.4	21.9	22.4	20.9	21.4	21.4	21.9	22.4
	12H	20.9	21.4	21.4	21.9	22.3	20.9	21.4	21.4	21.9	22.3
8H	4H	20.8	21.4	21.3	21.8	22.3	20.8	21.4	21.3	21.8	22.3
	6H	21.0	21.4	21.5	21.9	22.4	21.0	21.4	21.5	21.9	22.4
	8H	21.0	21.4	21.5	21.9	22.4	21.0	21.4	21.5	21.9	22.4
	12H	21.0	21.3	21.5	21.8	22.4	21.0	21.3	21.5	21.8	22.4
12H	4H	20.8	21.2	21.3	21.7	22.2	20.8	21.2	21.3	21.7	22.2
	6H	20.9	21.3	21.5	21.8	22.3	20.9	21.3	21.5	21.8	22.3
	8H	21.0	21.3	21.5	21.8	22.4	21.0	21.3	21.5	21.8	22.4

Maximum UGR = 22.4

POLAR GRAPH



Maximum Candela = 1253.494 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.)