

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L18-930-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.
[ISSUE DATE] 2025-05-20
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] V2DR-L18-930-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	1093
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	46
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	39199	39199	39199
55	31018	31018	31018
65	23186	23186	23186
75	12073	12073	12073
85	7317	7317	7317

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CANDELA TABULATION

	<u>0</u>
0.0	1302.974
0.5	1302.974
1.0	1302.302
1.5	1301.630
2.0	1301.630
2.5	1300.287
3.0	1298.272
3.5	1295.586
4.0	1292.899
4.5	1290.213
5.0	1286.183
5.5	1282.825
6.0	1278.795
6.5	1274.093
7.0	1269.392
7.5	1264.690
8.0	1259.989
8.5	1254.616
9.0	1248.571
9.5	1243.198
10.0	1237.153
10.5	1230.437
11.0	1223.049
11.5	1215.661
12.0	1207.601
12.5	1199.542
13.0	1190.810
13.5	1181.408
14.0	1171.333
14.5	1161.259
15.0	1149.841
15.5	1138.423
16.0	1125.662
16.5	1112.901
17.0	1099.468
17.5	1085.364
18.0	1070.588
18.5	1054.468
19.0	1037.678
19.5	1019.543
20.0	1000.738
20.5	981.260
21.0	960.439
21.5	938.947
22.0	915.440
22.5	891.933
23.0	867.082
23.5	841.560
24.0	814.694
24.5	787.829
25.0	760.292
25.5	731.412
26.0	701.860
26.5	672.308

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CANDELA TABULATION - (Cont.)

27.0	642.957
27.5	613.472
28.0	583.719
28.5	554.100
29.0	523.809
29.5	493.317
30.0	463.093
30.5	433.339
31.0	403.989
31.5	375.646
32.0	348.378
32.5	322.587
33.0	298.676
33.5	276.513
34.0	255.893
34.5	237.020
35.0	219.894
35.5	204.177
36.0	189.939
36.5	177.178
37.0	165.827
37.5	155.685
38.0	146.484
38.5	138.290
39.0	131.103
39.5	124.790
40.0	119.148
40.5	114.245
41.0	109.880
41.5	105.984
42.0	102.492
42.5	99.402
43.0	96.581
43.5	94.096
44.0	91.745
44.5	89.596
45.0	87.581
45.5	85.634
46.0	83.820
46.5	82.007
47.0	80.328
47.5	78.649
48.0	76.969
48.5	75.358
49.0	73.746
49.5	72.134
50.0	70.589
50.5	69.111
51.0	67.567
51.5	66.089
52.0	64.679
52.5	63.201
53.0	61.791
53.5	60.380
54.0	58.970
54.5	57.559

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55.0	56.216
55.5	54.873
56.0	53.529
56.5	52.186
57.0	50.843
57.5	49.567
58.0	48.223
58.5	46.947
59.0	45.671
59.5	44.462
60.0	43.186
60.5	41.910
61.0	40.634
61.5	39.425
62.0	38.149
62.5	36.940
63.0	35.731
63.5	34.522
64.0	33.313
64.5	32.104
65.0	30.962
65.5	29.821
66.0	28.679
66.5	27.470
67.0	26.395
67.5	25.321
68.0	24.179
68.5	23.104
69.0	22.030
69.5	20.955
70.0	19.948
70.5	18.873
71.0	17.866
71.5	16.791
72.0	15.783
72.5	14.776
73.0	13.769
73.5	12.761
74.0	11.821
74.5	10.813
75.0	9.873
75.5	9.000
76.0	8.127
76.5	7.455
77.0	6.851
77.5	6.313
78.0	5.910
78.5	5.575
79.0	5.306
79.5	5.037
80.0	4.701
80.5	4.433
81.0	4.164
81.5	3.895
82.0	3.560
82.5	3.291

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CANDELA TABULATION - (Cont.)

83.0	3.090
83.5	2.821
84.0	2.552
84.5	2.284
85.0	2.015
85.5	1.813
86.0	1.545
86.5	1.343
87.0	1.075
87.5	0.873
88.0	0.672
88.5	0.470
89.0	0.269
89.5	0.201
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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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
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126.5	0.000
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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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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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Zone	Lumens	%Lamp	%Fixt
0-20	440.71	N.A.	40.30
0-30	780.17	N.A.	71.40
0-40	929.53	N.A.	85.00
0-60	1048.91	N.A.	95.90
0-80	1091.00	N.A.	99.80
0-90	1093.32	N.A.	100.00
10-90	972.12	N.A.	88.90
20-40	488.82	N.A.	44.70
20-50	557.82	N.A.	51.00
40-70	150.16	N.A.	13.70
60-80	42.08	N.A.	3.80
70-80	11.31	N.A.	1.00
80-90	2.32	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	1093.32	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	121.20
10-20	319.51
20-30	339.46
30-40	149.36
40-50	69.01
50-60	50.38
60-70	30.77
70-80	11.31
80-90	2.32
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	19.2	20.3	19.6	20.6	20.9	19.2	20.3	19.6	20.6	20.9
	3H	20.2	21.2	20.6	21.5	21.9	20.2	21.2	20.6	21.5	21.9
	4H	20.4	21.3	20.8	21.7	22.1	20.4	21.3	20.8	21.7	22.1
	6H	20.5	21.3	20.9	21.7	22.1	20.5	21.3	20.9	21.7	22.1
	8H	20.5	21.2	20.9	21.6	22.0	20.5	21.2	20.9	21.6	22.0
	12H	20.4	21.2	20.9	21.6	22.0	20.4	21.2	20.9	21.6	22.0

UGR Viewed Endwise

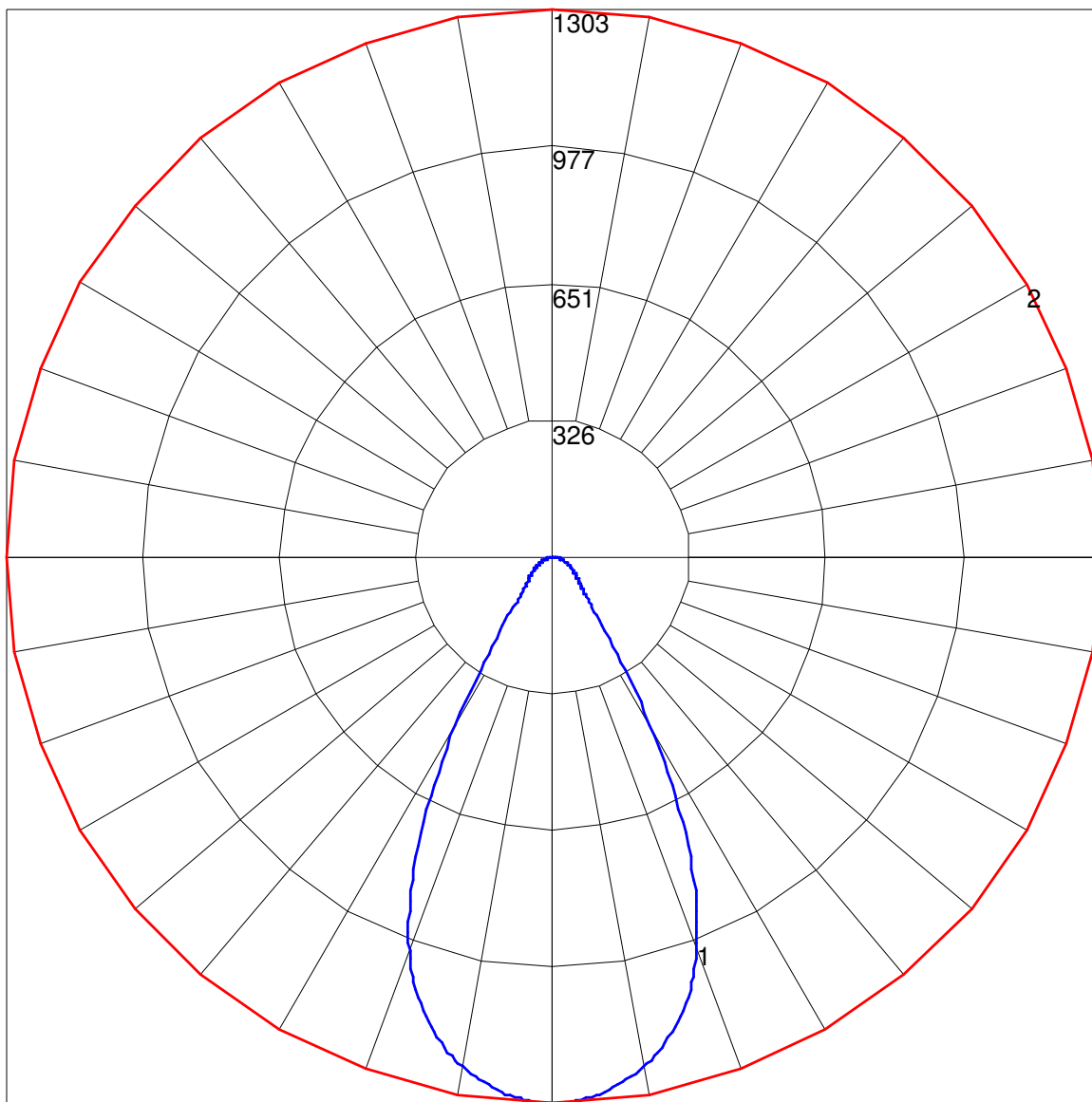
4H	2H	19.5	20.4	19.9	20.8	21.2	19.5	20.4	19.9	20.8	21.2
	3H	20.7	21.5	21.1	21.9	22.3	20.7	21.5	21.1	21.9	22.3
	4H	20.9	21.6	21.4	22.0	22.5	20.9	21.6	21.4	22.0	22.5
	6H	21.0	21.6	21.5	22.0	22.5	21.0	21.6	21.5	22.0	22.5
	8H	21.0	21.5	21.5	22.0	22.5	21.0	21.5	21.5	22.0	22.5
	12H	21.0	21.5	21.5	22.0	22.4	21.0	21.5	21.5	22.0	22.4

8H	4H	20.9	21.5	21.4	21.9	22.4	20.9	21.5	21.4	21.9	22.4
	6H	21.1	21.5	21.6	22.0	22.5	21.1	21.5	21.6	22.0	22.5
	8H	21.1	21.5	21.6	22.0	22.5	21.1	21.5	21.6	22.0	22.5
	12H	21.1	21.5	21.6	21.9	22.5	21.1	21.5	21.6	21.9	22.5

12H	4H	20.9	21.4	21.4	21.8	22.3	20.9	21.4	21.4	21.8	22.3
	6H	21.0	21.4	21.6	21.9	22.4	21.0	21.4	21.6	21.9	22.4
	8H	21.1	21.4	21.6	21.9	22.5	21.1	21.4	21.6	21.9	22.5

Maximum UGR = 22.5

POLAR GRAPH



Maximum Candela = 1302.974 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.)