

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L18-935-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-L18-935-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 met
[MORE] hod 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	1135
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	47
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	40687	40687	40687
55	32196	32196	32196
65	24067	24067	24067
75	12531	12531	12531
85	7593	7593	7593

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CANDELA TABULATION

	<u>0</u>
0.0	1352.454
0.5	1352.454
1.0	1351.757
1.5	1351.059
2.0	1351.059
2.5	1349.665
3.0	1347.574
3.5	1344.785
4.0	1341.997
4.5	1339.208
5.0	1335.025
5.5	1331.540
6.0	1327.357
6.5	1322.477
7.0	1317.597
7.5	1312.717
8.0	1307.837
8.5	1302.260
9.0	1295.985
9.5	1290.408
10.0	1284.134
10.5	1277.163
11.0	1269.494
11.5	1261.825
12.0	1253.460
12.5	1245.094
13.0	1236.031
13.5	1226.271
14.0	1215.814
14.5	1205.357
15.0	1193.506
15.5	1181.654
16.0	1168.409
16.5	1155.163
17.0	1141.220
17.5	1126.580
18.0	1111.243
18.5	1094.512
19.0	1077.083
19.5	1058.260
20.0	1038.740
20.5	1018.523
21.0	996.912
21.5	974.603
22.0	950.203
22.5	925.803
23.0	900.009
23.5	873.518
24.0	845.632
24.5	817.747
25.0	789.164
25.5	759.187
26.0	728.512
26.5	697.838

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CANDELA TABULATION - (Cont.)

27.0	667.373
27.5	636.769
28.0	605.885
28.5	575.141
29.0	543.700
29.5	512.050
30.0	480.679
30.5	449.795
31.0	419.330
31.5	389.911
32.0	361.607
32.5	334.837
33.0	310.019
33.5	287.013
34.0	265.611
34.5	246.021
35.0	228.244
35.5	211.931
36.0	197.152
36.5	183.906
37.0	172.124
37.5	161.597
38.0	152.046
38.5	143.541
39.0	136.082
39.5	129.529
40.0	123.673
40.5	118.584
41.0	114.052
41.5	110.009
42.0	106.384
42.5	103.177
43.0	100.249
43.5	97.669
44.0	95.229
44.5	92.999
45.0	90.907
45.5	88.885
46.0	87.003
46.5	85.121
47.0	83.378
47.5	81.635
48.0	79.892
48.5	78.219
49.0	76.546
49.5	74.873
50.0	73.270
50.5	71.736
51.0	70.132
51.5	68.599
52.0	67.135
52.5	65.601
53.0	64.137
53.5	62.673
54.0	61.209
54.5	59.745

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55.0	58.351
55.5	56.956
56.0	55.562
56.5	54.168
57.0	52.774
57.5	51.449
58.0	50.055
58.5	48.730
59.0	47.406
59.5	46.151
60.0	44.826
60.5	43.502
61.0	42.177
61.5	40.922
62.0	39.598
62.5	38.343
63.0	37.088
63.5	35.833
64.0	34.578
64.5	33.323
65.0	32.138
65.5	30.953
66.0	29.768
66.5	28.513
67.0	27.398
67.5	26.282
68.0	25.097
68.5	23.982
69.0	22.866
69.5	21.751
70.0	20.705
70.5	19.590
71.0	18.544
71.5	17.429
72.0	16.383
72.5	15.337
73.0	14.291
73.5	13.246
74.0	12.270
74.5	11.224
75.0	10.248
75.5	9.342
76.0	8.435
76.5	7.738
77.0	7.111
77.5	6.553
78.0	6.135
78.5	5.786
79.0	5.507
79.5	5.229
80.0	4.880
80.5	4.601
81.0	4.322
81.5	4.043
82.0	3.695
82.5	3.416

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CANDELA TABULATION - (Cont.)

83.0	3.207
83.5	2.928
84.0	2.649
84.5	2.370
85.0	2.091
85.5	1.882
86.0	1.603
86.5	1.394
87.0	1.115
87.5	0.906
88.0	0.697
88.5	0.488
89.0	0.279
89.5	0.209
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
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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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
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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
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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	457.44	N.A.	40.30
0-30	809.79	N.A.	71.40
0-40	964.82	N.A.	85.00
0-60	1088.75	N.A.	95.90
0-80	1132.43	N.A.	99.80
0-90	1134.84	N.A.	100.00
10-90	1009.04	N.A.	88.90
20-40	507.38	N.A.	44.70
20-50	579.01	N.A.	51.00
40-70	155.87	N.A.	13.70
60-80	43.68	N.A.	3.80
70-80	11.74	N.A.	1.00
80-90	2.41	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	1134.84	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	125.80
10-20	331.64
20-30	352.35
30-40	155.03
40-50	71.63
50-60	52.30
60-70	31.94
70-80	11.74
80-90	2.41
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	19.4	20.5	19.8	20.8	21.1	19.4	20.5	19.8	20.8	21.1
	3H	20.4	21.4	20.8	21.7	22.1	20.4	21.4	20.8	21.7	22.1
	4H	20.6	21.5	21.0	21.9	22.3	20.6	21.5	21.0	21.9	22.3
	6H	20.7	21.5	21.1	21.9	22.3	20.7	21.5	21.1	21.9	22.3
	8H	20.7	21.4	21.1	21.8	22.2	20.7	21.4	21.1	21.8	22.2
	12H	20.6	21.4	21.1	21.8	22.2	20.6	21.4	21.1	21.8	22.2

UGR Viewed Endwise

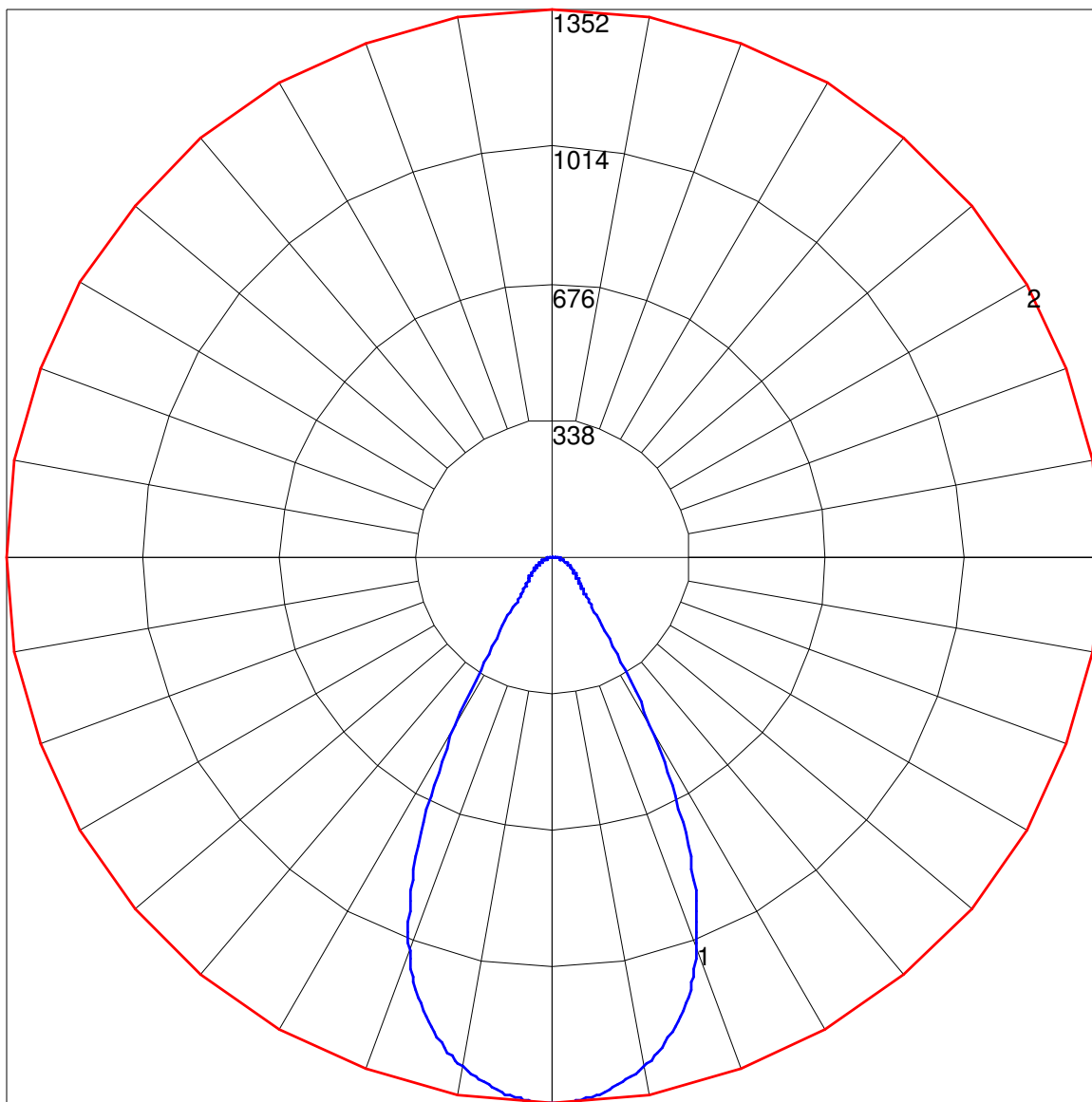
4H	2H	19.7	20.6	20.1	21.0	21.4	19.7	20.6	20.1	21.0	21.4
	3H	20.9	21.6	21.3	22.1	22.5	20.9	21.6	21.3	22.1	22.5
	4H	21.1	21.8	21.6	22.2	22.7	21.1	21.8	21.6	22.2	22.7
	6H	21.2	21.8	21.7	22.2	22.7	21.2	21.8	21.7	22.2	22.7
	8H	21.2	21.7	21.7	22.2	22.7	21.2	21.7	21.7	22.2	22.7
	12H	21.2	21.7	21.7	22.2	22.6	21.2	21.7	21.7	22.2	22.6

8H	4H	21.1	21.7	21.6	22.1	22.6	21.1	21.7	21.6	22.1	22.6
	6H	21.3	21.7	21.8	22.2	22.7	21.3	21.7	21.8	22.2	22.7
	8H	21.3	21.7	21.8	22.2	22.7	21.3	21.7	21.8	22.2	22.7
	12H	21.3	21.7	21.8	22.1	22.7	21.3	21.7	21.8	22.1	22.7

12H	4H	21.1	21.6	21.6	22.0	22.5	21.1	21.6	21.6	22.0	22.5
	6H	21.2	21.6	21.8	22.1	22.6	21.2	21.6	21.8	22.1	22.6
	8H	21.3	21.6	21.8	22.1	22.7	21.3	21.6	21.8	22.1	22.7

Maximum UGR = 22.7

POLAR GRAPH



Maximum Candela = 1352.454 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.)