

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L18-835-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-L18-835-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	1384
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	58
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	49619	49619	49619
55	39263	39263	39263
65	29350	29350	29350
75	15282	15282	15282
85	9263	9263	9263

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CANDELA TABULATION

	<u>0</u>
0.0	1649.334
0.5	1649.334
1.0	1648.483
1.5	1647.633
2.0	1647.633
2.5	1645.933
3.0	1643.382
3.5	1639.982
4.0	1636.581
4.5	1633.180
5.0	1628.079
5.5	1623.828
6.0	1618.727
6.5	1612.776
7.0	1606.825
7.5	1600.874
8.0	1594.923
8.5	1588.121
9.0	1580.470
9.5	1573.668
10.0	1566.017
10.5	1557.515
11.0	1548.163
11.5	1538.811
12.0	1528.609
12.5	1518.407
13.0	1507.355
13.5	1495.453
14.0	1482.700
14.5	1469.947
15.0	1455.494
15.5	1441.042
16.0	1424.888
16.5	1408.735
17.0	1391.732
17.5	1373.878
18.0	1355.174
18.5	1334.770
19.0	1313.516
19.5	1290.561
20.0	1266.756
20.5	1242.101
21.0	1215.746
21.5	1188.540
22.0	1158.784
22.5	1129.028
23.0	1097.572
23.5	1065.265
24.0	1031.259
24.5	997.252
25.0	962.395
25.5	925.837
26.0	888.430
26.5	851.022

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CANDELA TABULATION - (Cont.)

27.0	813.870
27.5	776.547
28.0	738.884
28.5	701.392
29.0	663.049
29.5	624.451
30.0	586.194
30.5	548.531
31.0	511.378
31.5	475.501
32.0	440.984
32.5	408.338
33.0	378.071
33.5	350.016
34.0	323.916
34.5	300.026
35.0	278.346
35.5	258.452
36.0	240.429
36.5	224.275
37.0	209.907
37.5	197.070
38.0	185.423
38.5	175.050
39.0	165.954
39.5	157.962
40.0	150.821
40.5	144.614
41.0	139.088
41.5	134.157
42.0	129.736
42.5	125.825
43.0	122.255
43.5	119.109
44.0	116.133
44.5	113.413
45.0	110.862
45.5	108.397
46.0	106.101
46.5	103.806
47.0	101.681
47.5	99.555
48.0	97.430
48.5	95.389
49.0	93.349
49.5	91.308
50.0	89.353
50.5	87.483
51.0	85.527
51.5	83.657
52.0	81.872
52.5	80.001
53.0	78.216
53.5	76.430
54.0	74.645
54.5	72.860

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55.0	71.159
55.5	69.459
56.0	67.759
56.5	66.058
57.0	64.358
57.5	62.743
58.0	61.042
58.5	59.427
59.0	57.812
59.5	56.281
60.0	54.666
60.5	53.051
61.0	51.435
61.5	49.905
62.0	48.290
62.5	46.759
63.0	45.229
63.5	43.699
64.0	42.169
64.5	40.638
65.0	39.193
65.5	37.748
66.0	36.302
66.5	34.772
67.0	33.412
67.5	32.051
68.0	30.606
68.5	29.246
69.0	27.886
69.5	26.525
70.0	25.250
70.5	23.890
71.0	22.615
71.5	21.254
72.0	19.979
72.5	18.704
73.0	17.429
73.5	16.153
74.0	14.963
74.5	13.688
75.0	12.498
75.5	11.392
76.0	10.287
76.5	9.437
77.0	8.672
77.5	7.992
78.0	7.482
78.5	7.056
79.0	6.716
79.5	6.376
80.0	5.951
80.5	5.611
81.0	5.271
81.5	4.931
82.0	4.506
82.5	4.166

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CANDELA TABULATION - (Cont.)

83.0	3.911
83.5	3.571
84.0	3.231
84.5	2.891
85.0	2.551
85.5	2.295
86.0	1.955
86.5	1.700
87.0	1.360
87.5	1.105
88.0	0.850
88.5	0.595
89.0	0.340
89.5	0.255
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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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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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	557.86	N.A.	40.30
0-30	987.55	N.A.	71.40
0-40	1176.61	N.A.	85.00
0-60	1327.74	N.A.	95.90
0-80	1381.01	N.A.	99.80
0-90	1383.95	N.A.	100.00
10-90	1230.53	N.A.	88.90
20-40	618.76	N.A.	44.70
20-50	706.11	N.A.	51.00
40-70	190.08	N.A.	13.70
60-80	53.27	N.A.	3.80
70-80	14.31	N.A.	1.00
80-90	2.94	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	1383.95	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	153.41
10-20	404.44
20-30	429.69
30-40	189.06
40-50	87.35
50-60	63.78
60-70	38.95
70-80	14.31
80-90	2.94
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

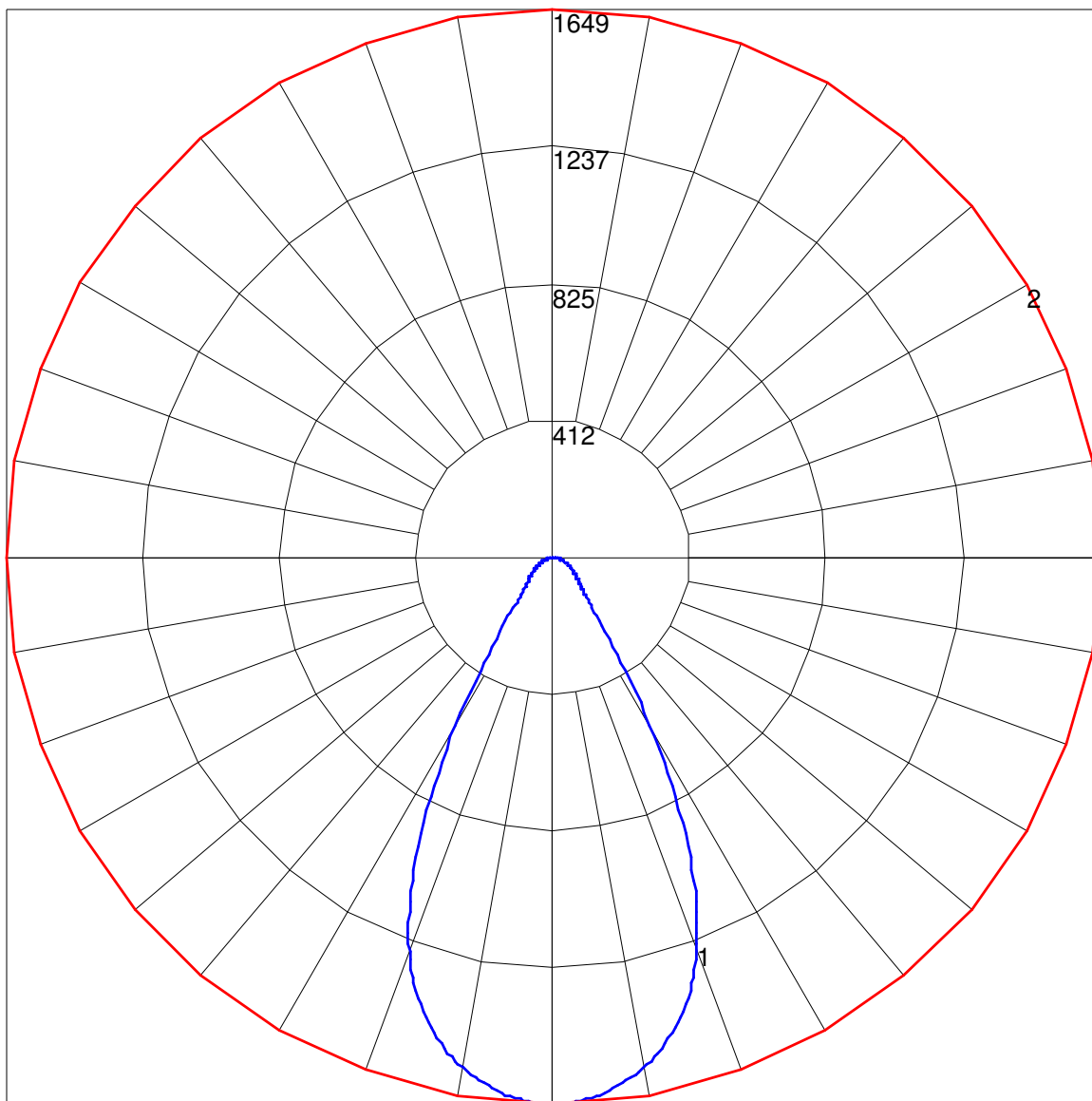
X=2H	Y=2H	20.1	21.2	20.5	21.5	21.8	20.1	21.2	20.5	21.5	21.8
	3H	21.1	22.1	21.5	22.4	22.8	21.1	22.1	21.5	22.4	22.8
	4H	21.3	22.2	21.7	22.6	23.0	21.3	22.2	21.7	22.6	23.0
	6H	21.3	22.2	21.8	22.6	22.9	21.3	22.2	21.8	22.6	22.9
	8H	21.3	22.1	21.8	22.5	22.9	21.3	22.1	21.8	22.5	22.9
	12H	21.3	22.1	21.8	22.5	22.9	21.3	22.1	21.8	22.5	22.9

UGR Viewed Endwise

4H	2H	20.4	21.3	20.8	21.7	22.1	20.4	21.3	20.8	21.7	22.1
	3H	21.6	22.3	22.0	22.8	23.2	21.6	22.3	22.0	22.8	23.2
	4H	21.8	22.5	22.3	22.9	23.4	21.8	22.5	22.3	22.9	23.4
	6H	21.9	22.5	22.4	22.9	23.4	21.9	22.5	22.4	22.9	23.4
	8H	21.9	22.4	22.4	22.9	23.4	21.9	22.4	22.4	22.9	23.4
	12H	21.9	22.4	22.4	22.9	23.3	21.9	22.4	22.4	22.9	23.3
8H	4H	21.8	22.4	22.3	22.8	23.3	21.8	22.4	22.3	22.8	23.3
	6H	22.0	22.4	22.5	22.9	23.4	22.0	22.4	22.5	22.9	23.4
	8H	22.0	22.4	22.5	22.9	23.4	22.0	22.4	22.5	22.9	23.4
	12H	22.0	22.3	22.5	22.8	23.4	22.0	22.3	22.5	22.8	23.4
12H	4H	21.8	22.2	22.3	22.7	23.2	21.8	22.2	22.3	22.7	23.2
	6H	21.9	22.3	22.5	22.8	23.3	21.9	22.3	22.5	22.8	23.3
	8H	22.0	22.3	22.5	22.8	23.4	22.0	22.3	22.5	22.8	23.4

Maximum UGR = 23.4

POLAR GRAPH



Maximum Candela = 1649.334 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.)