

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L18-827-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-L18-827-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	1273
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	53
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	45649	45649	45649
55	36123	36123	36123
65	27002	27002	27002
75	14060	14060	14060
85	8519	8519	8519

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CANDELA TABULATION

	<u>0</u>
0.0	1517.387
0.5	1517.387
1.0	1516.605
1.5	1515.823
2.0	1515.823
2.5	1514.258
3.0	1511.912
3.5	1508.783
4.0	1505.655
4.5	1502.526
5.0	1497.833
5.5	1493.922
6.0	1489.229
6.5	1483.754
7.0	1478.279
7.5	1472.804
8.0	1467.329
8.5	1461.072
9.0	1454.032
9.5	1447.775
10.0	1440.736
10.5	1432.914
11.0	1424.310
11.5	1415.707
12.0	1406.321
12.5	1396.935
13.0	1386.767
13.5	1375.816
14.0	1364.084
14.5	1352.352
15.0	1339.055
15.5	1325.758
16.0	1310.897
16.5	1296.036
17.0	1280.393
17.5	1263.968
18.0	1246.760
18.5	1227.989
19.0	1208.435
19.5	1187.316
20.0	1165.416
20.5	1142.733
21.0	1118.486
21.5	1093.457
22.0	1066.082
22.5	1038.706
23.0	1009.766
23.5	980.044
24.0	948.758
24.5	917.472
25.0	885.403
25.5	851.770
26.0	817.355
26.5	782.940

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CANDELA TABULATION - (Cont.)

27.0	748.760
27.5	714.423
28.0	679.774
28.5	645.281
29.0	610.005
29.5	574.495
30.0	539.298
30.5	504.649
31.0	470.468
31.5	437.461
32.0	405.706
32.5	375.671
33.0	347.826
33.5	322.015
34.0	298.002
34.5	276.024
35.0	256.079
35.5	237.776
36.0	221.194
36.5	206.333
37.0	193.115
37.5	181.304
38.0	170.589
38.5	161.046
39.0	152.677
39.5	145.325
40.0	138.755
40.5	133.045
41.0	127.961
41.5	123.425
42.0	119.357
42.5	115.759
43.0	112.474
43.5	109.580
44.0	106.843
44.5	104.340
45.0	101.993
45.5	99.725
46.0	97.613
46.5	95.502
47.0	93.546
47.5	91.591
48.0	89.635
48.5	87.758
49.0	85.881
49.5	84.004
50.0	82.205
50.5	80.484
51.0	78.685
51.5	76.964
52.0	75.322
52.5	73.601
53.0	71.959
53.5	70.316
54.0	68.674
54.5	67.031

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CANDELA TABULATION - (Cont.)

55.0	65.467
55.5	63.902
56.0	62.338
56.5	60.774
57.0	59.209
57.5	57.723
58.0	56.159
58.5	54.673
59.0	53.187
59.5	51.779
60.0	50.293
60.5	48.807
61.0	47.321
61.5	45.913
62.0	44.427
62.5	43.019
63.0	41.611
63.5	40.203
64.0	38.795
64.5	37.387
65.0	36.057
65.5	34.728
66.0	33.398
66.5	31.990
67.0	30.739
67.5	29.487
68.0	28.158
68.5	26.906
69.0	25.655
69.5	24.403
70.0	23.230
70.5	21.979
71.0	20.805
71.5	19.554
72.0	18.381
72.5	17.207
73.0	16.034
73.5	14.861
74.0	13.766
74.5	12.593
75.0	11.498
75.5	10.481
76.0	9.464
76.5	8.682
77.0	7.978
77.5	7.352
78.0	6.883
78.5	6.492
79.0	6.179
79.5	5.866
80.0	5.475
80.5	5.162
81.0	4.849
81.5	4.537
82.0	4.145
82.5	3.833

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CANDELA TABULATION - (Cont.)

83.0	3.598
83.5	3.285
84.0	2.972
84.5	2.659
85.0	2.346
85.5	2.112
86.0	1.799
86.5	1.564
87.0	1.251
87.5	1.017
88.0	0.782
88.5	0.548
89.0	0.313
89.5	0.235
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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : V2DR-L18-827-DIM-UNV-RW-OF-BL_.IES****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
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156.0	0.000
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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	513.23	N.A.	40.30
0-30	908.55	N.A.	71.40
0-40	1082.49	N.A.	85.00
0-60	1221.52	N.A.	95.90
0-80	1270.53	N.A.	99.80
0-90	1273.23	N.A.	100.00
10-90	1132.09	N.A.	88.90
20-40	569.26	N.A.	44.70
20-50	649.62	N.A.	51.00
40-70	174.87	N.A.	13.70
60-80	49.01	N.A.	3.80
70-80	13.17	N.A.	1.00
80-90	2.71	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	1273.23	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	141.14
10-20	372.09
20-30	395.32
30-40	173.94
40-50	80.36
50-60	58.67
60-70	35.84
70-80	13.17
80-90	2.71
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	86	83	80	79
4	96	88	82	78	94	87	81	77	85	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	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	19.8	20.9	20.2	21.2	21.5	19.8	20.9	20.2	21.2	21.5
	3H	20.8	21.8	21.2	22.1	22.5	20.8	21.8	21.2	22.1	22.5
	4H	21.0	21.9	21.4	22.3	22.7	21.0	21.9	21.4	22.3	22.7
	6H	21.0	21.9	21.5	22.3	22.6	21.0	21.9	21.5	22.3	22.6
	8H	21.0	21.8	21.5	22.2	22.6	21.0	21.8	21.5	22.2	22.6
	12H	21.0	21.8	21.5	22.2	22.6	21.0	21.8	21.5	22.2	22.6

UGR Viewed Endwise

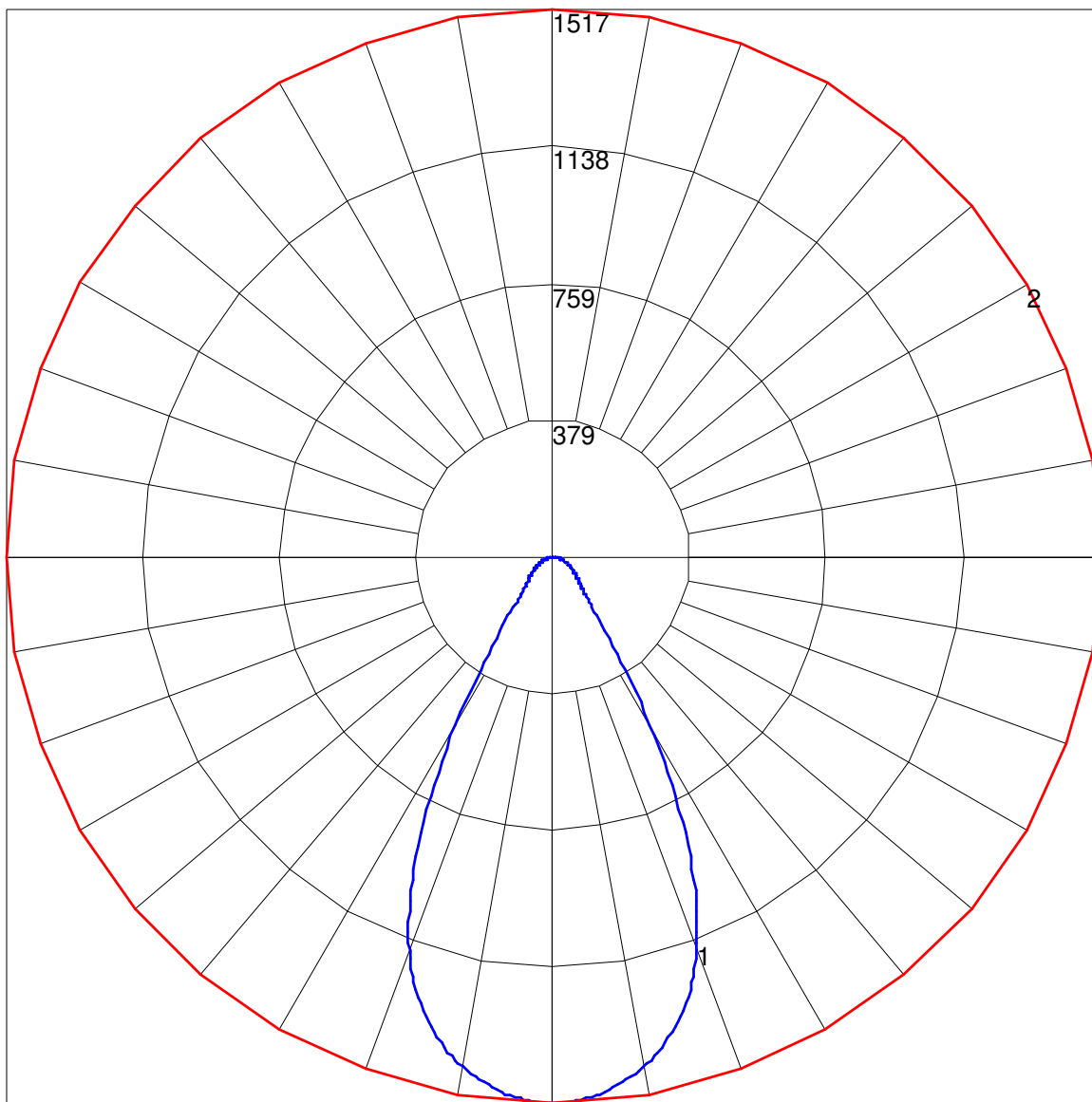
4H	2H	20.1	21.0	20.5	21.4	21.8	20.1	21.0	20.5	21.4	21.8
	3H	21.3	22.0	21.7	22.5	22.9	21.3	22.0	21.7	22.5	22.9
	4H	21.5	22.2	22.0	22.6	23.1	21.5	22.2	22.0	22.6	23.1
	6H	21.6	22.2	22.1	22.6	23.1	21.6	22.2	22.1	22.6	23.1
	8H	21.6	22.1	22.1	22.6	23.1	21.6	22.1	22.1	22.6	23.1
	12H	21.6	22.1	22.1	22.6	23.0	21.6	22.1	22.1	22.6	23.0

8H	4H	21.5	22.1	22.0	22.5	23.0	21.5	22.1	22.0	22.5	23.0
	6H	21.7	22.1	22.2	22.6	23.1	21.7	22.1	22.2	22.6	23.1
	8H	21.7	22.1	22.2	22.6	23.1	21.7	22.1	22.2	22.6	23.1
	12H	21.7	22.0	22.2	22.5	23.1	21.7	22.0	22.2	22.5	23.1

12H	4H	21.5	21.9	22.0	22.4	22.9	21.5	21.9	22.0	22.4	22.9
	6H	21.6	22.0	22.2	22.5	23.0	21.6	22.0	22.2	22.5	23.0
	8H	21.7	22.0	22.2	22.5	23.1	21.7	22.0	22.2	22.5	23.1

Maximum UGR = 23.1

POLAR GRAPH



Maximum Candela = 1517.387 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.)