

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L5-827-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-L5-827-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 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	356
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	53
Total Luminaire Watts	6.7
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	12767	12767	12767
55	10103	10103	10103
65	7552	7552	7552
75	3932	3932	3932
85	2382	2382	2382

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CANDELA TABULATION

	<u>0</u>
0.0	424.383
0.5	424.383
1.0	424.165
1.5	423.946
2.0	423.946
2.5	423.508
3.0	422.852
3.5	421.977
4.0	421.102
4.5	420.227
5.0	418.914
5.5	417.821
6.0	416.508
6.5	414.977
7.0	413.446
7.5	411.914
8.0	410.383
8.5	408.633
9.0	406.664
9.5	404.914
10.0	402.945
10.5	400.758
11.0	398.352
11.5	395.945
12.0	393.320
12.5	390.695
13.0	387.851
13.5	384.789
14.0	381.508
14.5	378.226
15.0	374.507
15.5	370.789
16.0	366.632
16.5	362.476
17.0	358.101
17.5	353.507
18.0	348.694
18.5	343.444
19.0	337.975
19.5	332.069
20.0	325.944
20.5	319.600
21.0	312.819
21.5	305.819
22.0	298.162
22.5	290.506
23.0	282.412
23.5	274.099
24.0	265.349
24.5	256.599
25.0	247.630
25.5	238.223
26.0	228.598
26.5	218.973

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CANDELA TABULATION - (Cont.)

27.0	209.413
27.5	199.810
28.0	190.119
28.5	180.472
29.0	170.606
29.5	160.675
30.0	150.831
30.5	141.140
31.0	131.581
31.5	122.349
32.0	113.468
32.5	105.068
33.0	97.280
33.5	90.061
34.0	83.345
34.5	77.198
35.0	71.620
35.5	66.501
36.0	61.864
36.5	57.707
37.0	54.010
37.5	50.707
38.0	47.710
38.5	45.042
39.0	42.701
39.5	40.645
40.0	38.807
40.5	37.210
41.0	35.788
41.5	34.519
42.0	33.382
42.5	32.376
43.0	31.457
43.5	30.647
44.0	29.882
44.5	29.182
45.0	28.526
45.5	27.891
46.0	27.301
46.5	26.710
47.0	26.163
47.5	25.616
48.0	25.069
48.5	24.544
49.0	24.019
49.5	23.494
50.0	22.991
50.5	22.510
51.0	22.007
51.5	21.525
52.0	21.066
52.5	20.585
53.0	20.125
53.5	19.666
54.0	19.207
54.5	18.747

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CANDELA TABULATION - (Cont.)

55.0	18.310
55.5	17.872
56.0	17.435
56.5	16.997
57.0	16.560
57.5	16.144
58.0	15.707
58.5	15.291
59.0	14.875
59.5	14.482
60.0	14.066
60.5	13.650
61.0	13.235
61.5	12.841
62.0	12.425
62.5	12.031
63.0	11.638
63.5	11.244
64.0	10.850
64.5	10.456
65.0	10.085
65.5	9.713
66.0	9.341
66.5	8.947
67.0	8.597
67.5	8.247
68.0	7.875
68.5	7.525
69.0	7.175
69.5	6.825
70.0	6.497
70.5	6.147
71.0	5.819
71.5	5.469
72.0	5.141
72.5	4.813
73.0	4.484
73.5	4.156
74.0	3.850
74.5	3.522
75.0	3.216
75.5	2.931
76.0	2.647
76.5	2.428
77.0	2.231
77.5	2.056
78.0	1.925
78.5	1.816
79.0	1.728
79.5	1.641
80.0	1.531
80.5	1.444
81.0	1.356
81.5	1.269
82.0	1.159
82.5	1.072

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CANDELA TABULATION - (Cont.)

83.0	1.006
83.5	0.919
84.0	0.831
84.5	0.744
85.0	0.656
85.5	0.591
86.0	0.503
86.5	0.438
87.0	0.350
87.5	0.284
88.0	0.219
88.5	0.153
89.0	0.088
89.5	0.066
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
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128.0	0.000
128.5	0.000
129.0	0.000
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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
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149.5	0.000
150.0	0.000
150.5	0.000
151.0	0.000
151.5	0.000
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152.5	0.000
153.0	0.000
153.5	0.000
154.0	0.000
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156.0	0.000
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158.0	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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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	143.54	N.A.	40.30
0-30	254.10	N.A.	71.40
0-40	302.75	N.A.	85.00
0-60	341.64	N.A.	95.90
0-80	355.34	N.A.	99.80
0-90	356.10	N.A.	100.00
10-90	316.62	N.A.	88.90
20-40	159.21	N.A.	44.70
20-50	181.69	N.A.	51.00
40-70	48.91	N.A.	13.70
60-80	13.71	N.A.	3.90
70-80	3.68	N.A.	1.00
80-90	0.76	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	356.10	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	39.47
10-20	104.07
20-30	110.56
30-40	48.65
40-50	22.48
50-60	16.41
60-70	10.02
70-80	3.68
80-90	0.76
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

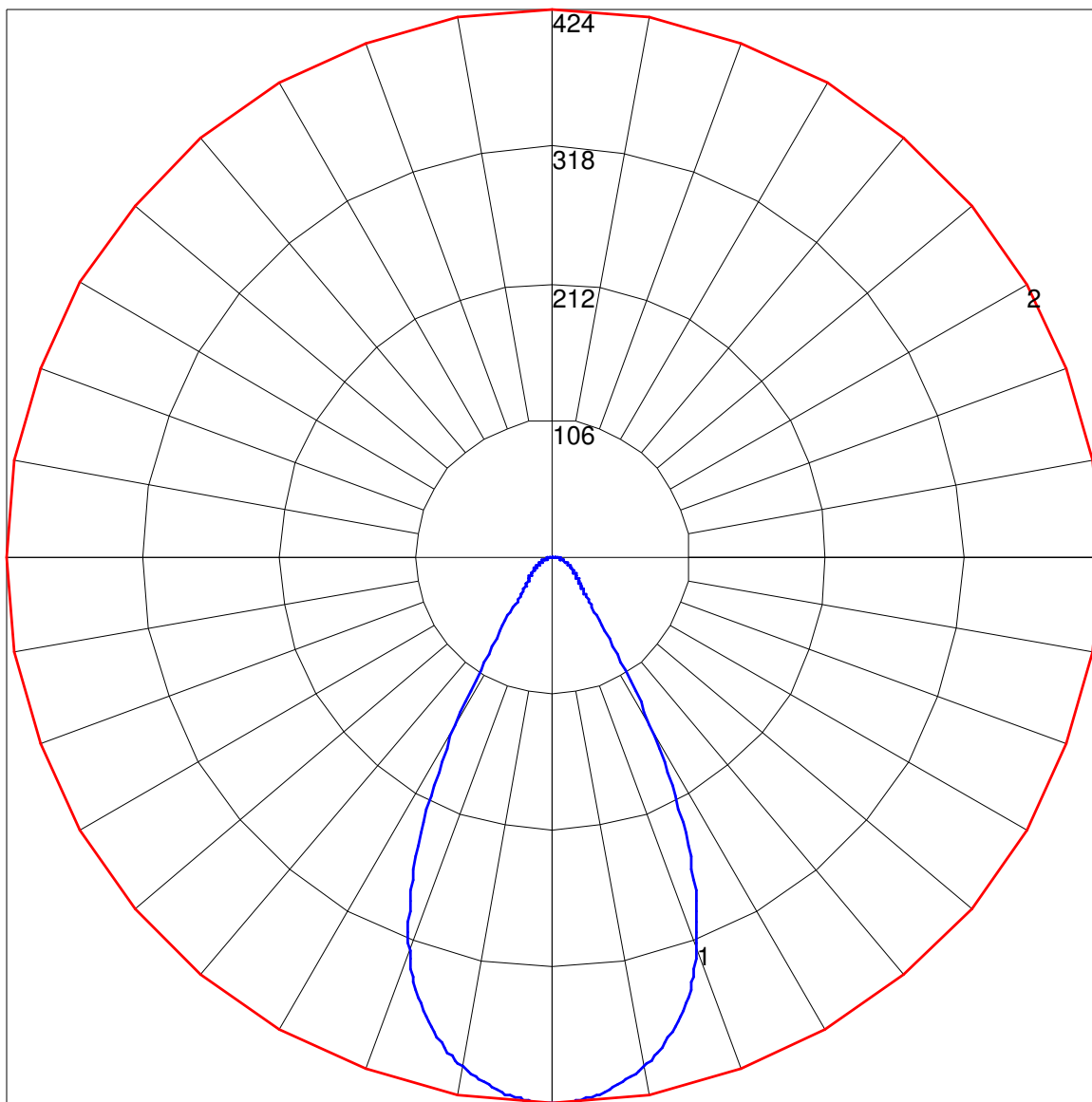
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	15.3	16.4	15.7	16.7	17.0	15.3	16.4	15.7	16.7	17.0
	3H	16.3	17.3	16.7	17.6	18.0	16.3	17.3	16.7	17.6	18.0
	4H	16.5	17.4	16.9	17.8	18.2	16.5	17.4	16.9	17.8	18.2
	6H	16.6	17.4	17.0	17.8	18.2	16.6	17.4	17.0	17.8	18.2
	8H	16.5	17.3	17.0	17.7	18.1	16.5	17.3	17.0	17.7	18.1
	12H	16.5	17.3	17.0	17.7	18.1	16.5	17.3	17.0	17.7	18.1
4H	2H	15.6	16.5	16.0	16.9	17.3	15.6	16.5	16.0	16.9	17.3
	3H	16.8	17.5	17.2	18.0	18.4	16.8	17.5	17.2	18.0	18.4
	4H	17.0	17.7	17.5	18.1	18.6	17.0	17.7	17.5	18.1	18.6
	6H	17.1	17.7	17.6	18.1	18.6	17.1	17.7	17.6	18.1	18.6
	8H	17.1	17.6	17.6	18.1	18.6	17.1	17.6	17.6	18.1	18.6
	12H	17.1	17.6	17.6	18.1	18.5	17.1	17.6	17.6	18.1	18.5
8H	4H	17.0	17.6	17.5	18.0	18.5	17.0	17.6	17.5	18.0	18.5
	6H	17.2	17.6	17.7	18.1	18.6	17.2	17.6	17.7	18.1	18.6
	8H	17.2	17.6	17.7	18.1	18.6	17.2	17.6	17.7	18.1	18.6
	12H	17.2	17.5	17.7	18.0	18.6	17.2	17.5	17.7	18.0	18.6
12H	4H	17.0	17.5	17.5	17.9	18.4	17.0	17.5	17.5	17.9	18.4
	6H	17.1	17.5	17.7	18.0	18.5	17.1	17.5	17.7	18.0	18.5
	8H	17.2	17.5	17.7	18.0	18.6	17.2	17.5	17.7	18.0	18.6

Maximum UGR = 18.6

POLAR GRAPH



Maximum Candela = 424.383 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.)