

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L8-827-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-L8-827-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	580
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	54
Total Luminaire Watts	10.7
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	20792	20792	20792
55	16453	16453	16453
65	12298	12298	12298
75	6404	6404	6404
85	3882	3882	3882

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CANDELA TABULATION

	<u>0</u>
0.0	691.139
0.5	691.139
1.0	690.782
1.5	690.426
2.0	690.426
2.5	689.714
3.0	688.645
3.5	687.220
4.0	685.795
4.5	684.370
5.0	682.232
5.5	680.451
6.0	678.313
6.5	675.820
7.0	673.326
7.5	670.832
8.0	668.338
8.5	665.488
9.0	662.282
9.5	659.432
10.0	656.225
10.5	652.663
11.0	648.744
11.5	644.825
12.0	640.550
12.5	636.275
13.0	631.644
13.5	626.656
14.0	621.312
14.5	615.968
15.0	609.912
15.5	603.856
16.0	597.087
16.5	590.318
17.0	583.193
17.5	575.711
18.0	567.874
18.5	559.323
19.0	550.417
19.5	540.798
20.0	530.823
20.5	520.491
21.0	509.447
21.5	498.047
22.0	485.578
22.5	473.109
23.0	459.928
23.5	446.390
24.0	432.140
24.5	417.889
25.0	403.283
25.5	387.964
26.0	372.289
26.5	356.613

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CANDELA TABULATION - (Cont.)

27.0	341.045
27.5	325.405
28.0	309.623
28.5	293.912
29.0	277.845
29.5	261.671
30.0	245.639
30.5	229.857
31.0	214.289
31.5	199.255
32.0	184.791
32.5	171.110
33.0	158.427
33.5	146.671
34.0	135.734
34.5	125.723
35.0	116.639
35.5	108.302
36.0	100.749
36.5	93.981
37.0	87.960
37.5	82.580
38.0	77.700
38.5	73.353
39.0	69.541
39.5	66.193
40.0	63.200
40.5	60.599
41.0	58.284
41.5	56.217
42.0	54.365
42.5	52.726
43.0	51.230
43.5	49.912
44.0	48.665
44.5	47.525
45.0	46.456
45.5	45.423
46.0	44.461
46.5	43.499
47.0	42.608
47.5	41.718
48.0	40.827
48.5	39.972
49.0	39.117
49.5	38.262
50.0	37.443
50.5	36.659
51.0	35.839
51.5	35.056
52.0	34.308
52.5	33.524
53.0	32.776
53.5	32.028
54.0	31.279
54.5	30.531

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CANDELA TABULATION - (Cont.)

55.0	29.819
55.5	29.106
56.0	28.394
56.5	27.681
57.0	26.969
57.5	26.292
58.0	25.579
58.5	24.902
59.0	24.225
59.5	23.584
60.0	22.907
60.5	22.230
61.0	21.554
61.5	20.912
62.0	20.235
62.5	19.594
63.0	18.953
63.5	18.312
64.0	17.670
64.5	17.029
65.0	16.423
65.5	15.818
66.0	15.212
66.5	14.571
67.0	14.001
67.5	13.431
68.0	12.825
68.5	12.255
69.0	11.685
69.5	11.115
70.0	10.581
70.5	10.011
71.0	9.476
71.5	8.906
72.0	8.372
72.5	7.838
73.0	7.303
73.5	6.769
74.0	6.270
74.5	5.736
75.0	5.237
75.5	4.774
76.0	4.311
76.5	3.954
77.0	3.634
77.5	3.349
78.0	3.135
78.5	2.957
79.0	2.814
79.5	2.672
80.0	2.494
80.5	2.351
81.0	2.209
81.5	2.066
82.0	1.888
82.5	1.746

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CANDELA TABULATION - (Cont.)

83.0	1.639
83.5	1.496
84.0	1.354
84.5	1.211
85.0	1.069
85.5	0.962
86.0	0.819
86.5	0.713
87.0	0.570
87.5	0.463
88.0	0.356
88.5	0.249
89.0	0.143
89.5	0.107
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
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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
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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	233.76	N.A.	40.30
0-30	413.82	N.A.	71.40
0-40	493.05	N.A.	85.00
0-60	556.38	N.A.	95.90
0-80	578.70	N.A.	99.80
0-90	579.93	N.A.	100.00
10-90	515.64	N.A.	88.90
20-40	259.29	N.A.	44.70
20-50	295.89	N.A.	51.00
40-70	79.65	N.A.	13.70
60-80	22.32	N.A.	3.80
70-80	6.00	N.A.	1.00
80-90	1.23	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	579.93	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	64.29
10-20	169.48
20-30	180.06
30-40	79.23
40-50	36.60
50-60	26.73
60-70	16.32
70-80	6.00
80-90	1.23
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

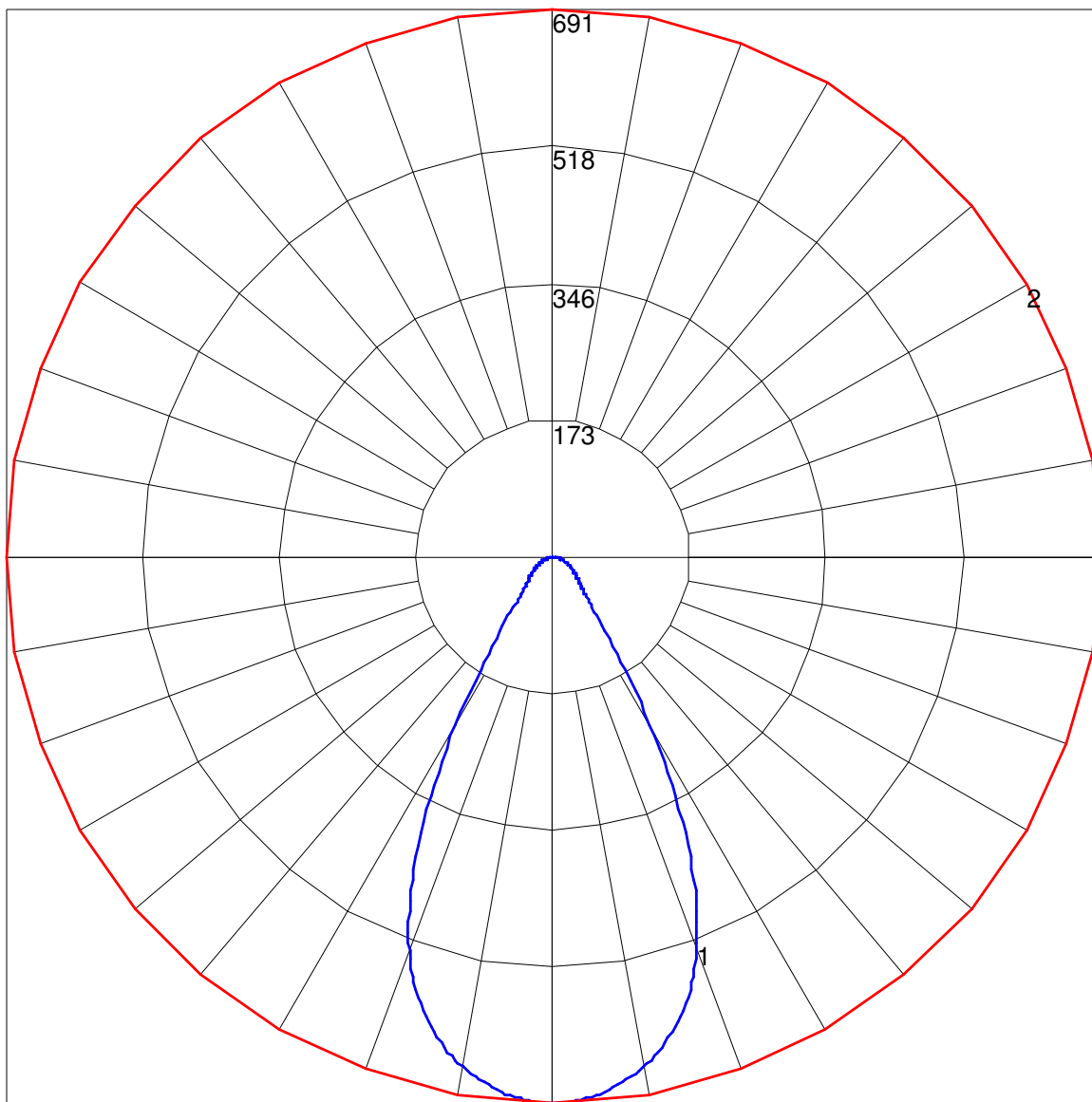
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	17.0	18.1	17.4	18.4	18.7	17.0	18.1	17.4	18.4	18.7
	3H	18.0	19.0	18.4	19.3	19.7	18.0	19.0	18.4	19.3	19.7
	4H	18.2	19.1	18.6	19.5	19.9	18.2	19.1	18.6	19.5	19.9
	6H	18.2	19.1	18.7	19.5	19.8	18.2	19.1	18.7	19.5	19.8
	8H	18.2	19.0	18.7	19.4	19.8	18.2	19.0	18.7	19.4	19.8
	12H	18.2	19.0	18.7	19.4	19.8	18.2	19.0	18.7	19.4	19.8
4H	2H	17.3	18.2	17.7	18.6	19.0	17.3	18.2	17.7	18.6	19.0
	3H	18.5	19.2	18.9	19.7	20.1	18.5	19.2	18.9	19.7	20.1
	4H	18.7	19.4	19.2	19.8	20.3	18.7	19.4	19.2	19.8	20.3
	6H	18.8	19.4	19.3	19.8	20.3	18.8	19.4	19.3	19.8	20.3
	8H	18.8	19.3	19.3	19.8	20.3	18.8	19.3	19.3	19.8	20.3
	12H	18.8	19.3	19.3	19.8	20.2	18.8	19.3	19.3	19.8	20.2
8H	4H	18.7	19.3	19.2	19.7	20.2	18.7	19.3	19.2	19.7	20.2
	6H	18.9	19.3	19.4	19.8	20.3	18.9	19.3	19.4	19.8	20.3
	8H	18.9	19.3	19.4	19.8	20.3	18.9	19.3	19.4	19.8	20.3
	12H	18.9	19.2	19.4	19.7	20.3	18.9	19.2	19.4	19.7	20.3
12H	4H	18.7	19.1	19.2	19.6	20.1	18.7	19.1	19.2	19.6	20.1
	6H	18.8	19.2	19.4	19.7	20.2	18.8	19.2	19.4	19.7	20.2
	8H	18.9	19.2	19.4	19.7	20.3	18.9	19.2	19.4	19.7	20.3

Maximum UGR = 20.3

POLAR GRAPH



Maximum Candela = 691.139 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.)