

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L8-830-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-L8-830-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	618
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	58
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	22148	22148	22148
55	17526	17526	17526
65	13101	13101	13101
75	6822	6822	6822
85	4132	4132	4132

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CANDELA TABULATION

	<u>0</u>
0.0	736.213
0.5	736.213
1.0	735.833
1.5	735.454
2.0	735.454
2.5	734.695
3.0	733.557
3.5	732.039
4.0	730.521
4.5	729.003
5.0	726.726
5.5	724.828
6.0	722.551
6.5	719.895
7.0	717.238
7.5	714.582
8.0	711.926
8.5	708.890
9.0	705.474
9.5	702.438
10.0	699.023
10.5	695.228
11.0	691.053
11.5	686.879
12.0	682.325
12.5	677.771
13.0	672.838
13.5	667.525
14.0	661.833
14.5	656.140
15.0	649.689
15.5	643.238
16.0	636.027
16.5	628.817
17.0	621.227
17.5	613.258
18.0	604.909
18.5	595.801
19.0	586.314
19.5	576.068
20.0	565.442
20.5	554.437
21.0	542.672
21.5	530.529
22.0	517.247
22.5	503.964
23.0	489.923
23.5	475.502
24.0	460.323
24.5	445.143
25.0	429.584
25.5	413.266
26.0	396.568
26.5	379.871

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CANDELA TABULATION - (Cont.)

27.0	363.287
27.5	346.627
28.0	329.816
28.5	313.080
29.0	295.965
29.5	278.736
30.0	261.659
30.5	244.848
31.0	228.264
31.5	212.249
32.0	196.842
32.5	182.270
33.0	168.760
33.5	156.237
34.0	144.586
34.5	133.922
35.0	124.245
35.5	115.365
36.0	107.320
36.5	100.110
37.0	93.696
37.5	87.966
38.0	82.767
38.5	78.137
39.0	74.077
39.5	70.509
40.0	67.322
40.5	64.551
41.0	62.085
41.5	59.884
42.0	57.910
42.5	56.165
43.0	54.571
43.5	53.167
44.0	51.838
44.5	50.624
45.0	49.486
45.5	48.385
46.0	47.361
46.5	46.336
47.0	45.387
47.5	44.438
48.0	43.490
48.5	42.579
49.0	41.668
49.5	40.757
50.0	39.885
50.5	39.050
51.0	38.177
51.5	37.342
52.0	36.545
52.5	35.710
53.0	34.913
53.5	34.116
54.0	33.319
54.5	32.522

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CANDELA TABULATION - (Cont.)

55.0	31.763
55.5	31.004
56.0	30.245
56.5	29.486
57.0	28.727
57.5	28.006
58.0	27.247
58.5	26.526
59.0	25.805
59.5	25.122
60.0	24.401
60.5	23.680
61.0	22.959
61.5	22.276
62.0	21.555
62.5	20.872
63.0	20.189
63.5	19.506
64.0	18.823
64.5	18.140
65.0	17.495
65.5	16.849
66.0	16.204
66.5	15.521
67.0	14.914
67.5	14.307
68.0	13.662
68.5	13.054
69.0	12.447
69.5	11.840
70.0	11.271
70.5	10.664
71.0	10.094
71.5	9.487
72.0	8.918
72.5	8.349
73.0	7.780
73.5	7.210
74.0	6.679
74.5	6.110
75.0	5.579
75.5	5.085
76.0	4.592
76.5	4.212
77.0	3.871
77.5	3.567
78.0	3.340
78.5	3.150
79.0	2.998
79.5	2.846
80.0	2.656
80.5	2.505
81.0	2.353
81.5	2.201
82.0	2.011
82.5	1.860

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CANDELA TABULATION - (Cont.)

83.0	1.746
83.5	1.594
84.0	1.442
84.5	1.290
85.0	1.138
85.5	1.025
86.0	0.873
86.5	0.759
87.0	0.607
87.5	0.493
88.0	0.379
88.5	0.266
89.0	0.152
89.5	0.114
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
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121.0	0.000
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122.0	0.000
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125.5	0.000
126.0	0.000
126.5	0.000
127.0	0.000
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128.5	0.000
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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
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149.5	0.000
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150.5	0.000
151.0	0.000
151.5	0.000
152.0	0.000
152.5	0.000
153.0	0.000
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154.0	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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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	249.01	N.A.	40.30
0-30	440.81	N.A.	71.40
0-40	525.21	N.A.	85.00
0-60	592.66	N.A.	95.90
0-80	616.44	N.A.	99.80
0-90	617.75	N.A.	100.00
10-90	549.27	N.A.	88.90
20-40	276.20	N.A.	44.70
20-50	315.18	N.A.	51.00
40-70	84.85	N.A.	13.70
60-80	23.78	N.A.	3.80
70-80	6.39	N.A.	1.00
80-90	1.31	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	617.75	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	68.48
10-20	180.53
20-30	191.80
30-40	84.39
40-50	38.99
50-60	28.47
60-70	17.39
70-80	6.39
80-90	1.31
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	78
4	96	88	82	78	94	87	81	77	84	80	76	82	78	75	81	77	74	73
5	91	82	76	71	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	70	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	54	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

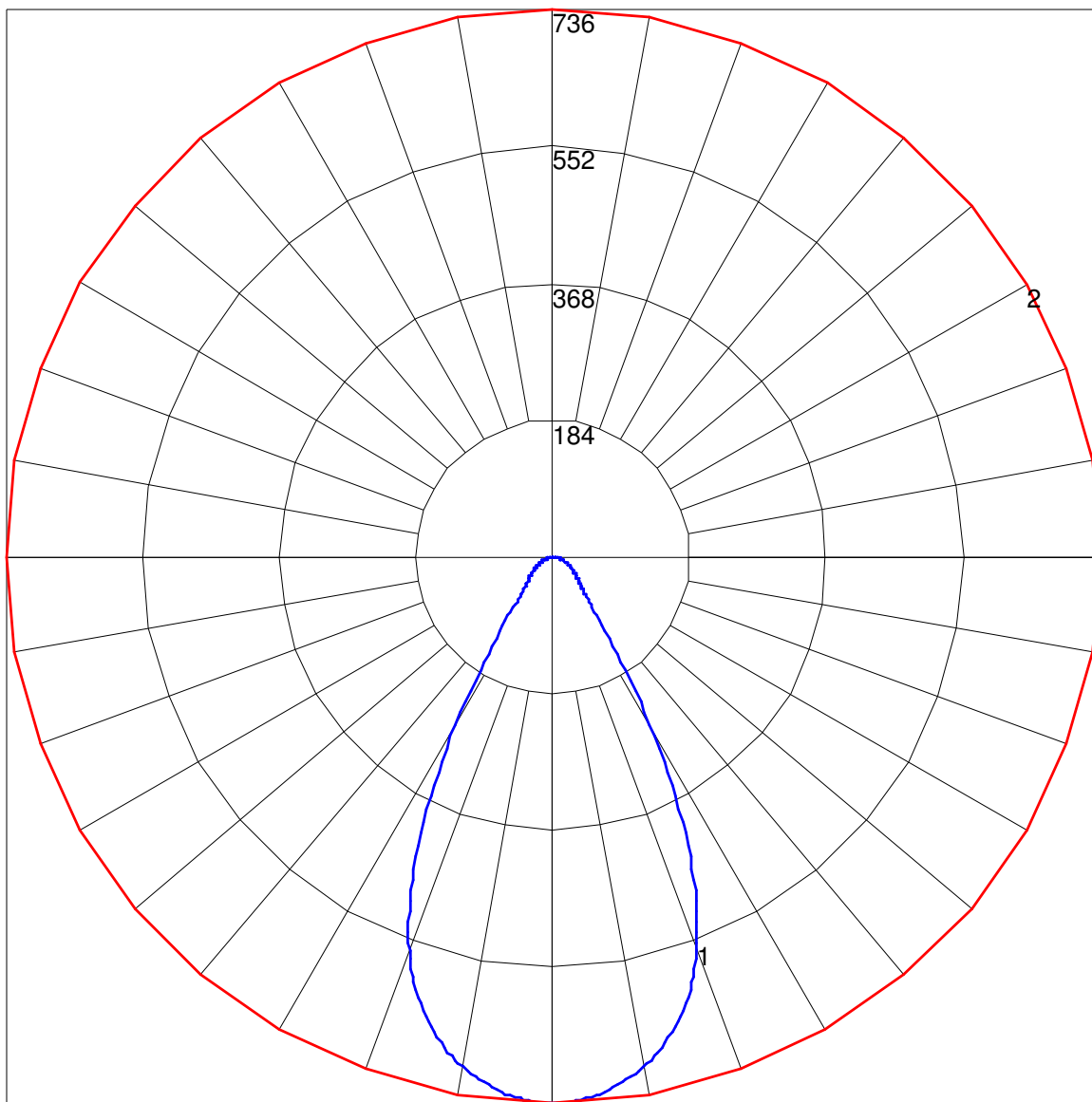
Reflectances

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	17.3	18.4	17.7	18.7	19.0	17.3	18.4	17.7	18.7	19.0
	3H	18.3	19.3	18.7	19.6	20.0	18.3	19.3	18.7	19.6	20.0
	4H	18.5	19.4	18.9	19.8	20.2	18.5	19.4	18.9	19.8	20.2
	6H	18.5	19.4	19.0	19.8	20.1	18.5	19.4	19.0	19.8	20.1
	8H	18.5	19.3	19.0	19.7	20.1	18.5	19.3	19.0	19.7	20.1
	12H	18.5	19.3	19.0	19.7	20.1	18.5	19.3	19.0	19.7	20.1
4H	2H	17.6	18.5	18.0	18.9	19.3	17.6	18.5	18.0	18.9	19.3
	3H	18.8	19.5	19.2	20.0	20.4	18.8	19.5	19.2	20.0	20.4
	4H	19.0	19.7	19.5	20.1	20.6	19.0	19.7	19.5	20.1	20.6
	6H	19.1	19.7	19.6	20.1	20.6	19.1	19.7	19.6	20.1	20.6
	8H	19.1	19.6	19.6	20.1	20.6	19.1	19.6	19.6	20.1	20.6
	12H	19.1	19.6	19.6	20.1	20.5	19.1	19.6	19.6	20.1	20.5
8H	4H	19.0	19.6	19.5	20.0	20.5	19.0	19.6	19.5	20.0	20.5
	6H	19.2	19.6	19.7	20.1	20.6	19.2	19.6	19.7	20.1	20.6
	8H	19.2	19.6	19.7	20.1	20.6	19.2	19.6	19.7	20.1	20.6
	12H	19.2	19.5	19.7	20.0	20.6	19.2	19.5	19.7	20.0	20.6
12H	4H	19.0	19.4	19.5	19.9	20.4	19.0	19.4	19.5	19.9	20.4
	6H	19.1	19.5	19.7	20.0	20.5	19.1	19.5	19.7	20.0	20.5
	8H	19.2	19.5	19.7	20.0	20.6	19.2	19.5	19.7	20.0	20.6

Maximum UGR = 20.6

POLAR GRAPH



Maximum Candela = 736.213 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.)