

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L8-850-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-L8-850-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	643
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	60
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	23052	23052	23052
55	18241	18241	18241
65	13636	13636	13636
75	7099	7099	7099
85	4303	4303	4303

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CANDELA TABULATION

	0
0.0	766.262
0.5	766.262
1.0	765.867
1.5	765.472
2.0	765.472
2.5	764.682
3.0	763.498
3.5	761.918
4.0	760.338
4.5	758.758
5.0	756.388
5.5	754.413
6.0	752.043
6.5	749.278
7.0	746.513
7.5	743.748
8.0	740.984
8.5	737.824
9.0	734.269
9.5	731.109
10.0	727.554
10.5	723.604
11.0	719.260
11.5	714.915
12.0	710.175
12.5	705.435
13.0	700.301
13.5	694.771
14.0	688.846
14.5	682.921
15.0	676.207
15.5	669.492
16.0	661.988
16.5	654.483
17.0	646.583
17.5	638.289
18.0	629.599
18.5	620.120
19.0	610.245
19.5	599.581
20.0	588.521
20.5	577.067
21.0	564.822
21.5	552.183
22.0	538.359
22.5	524.534
23.0	509.920
23.5	494.911
24.0	479.111
24.5	463.312
25.0	447.118
25.5	430.134
26.0	412.755
26.5	395.376

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CANDELA TABULATION - (Cont.)

27.0	378.115
27.5	360.775
28.0	343.278
28.5	325.859
29.0	308.045
29.5	290.113
30.0	272.339
30.5	254.841
31.0	237.581
31.5	220.913
32.0	204.876
32.5	189.709
33.0	175.648
33.5	162.614
34.0	150.488
34.5	139.389
35.0	129.317
35.5	120.074
36.0	111.701
36.5	104.196
37.0	97.521
37.5	91.557
38.0	86.145
38.5	81.327
39.0	77.100
39.5	73.387
40.0	70.070
40.5	67.186
41.0	64.619
41.5	62.328
42.0	60.274
42.5	58.457
43.0	56.798
43.5	55.337
44.0	53.954
44.5	52.690
45.0	51.505
45.5	50.360
46.0	49.294
46.5	48.227
47.0	47.240
47.5	46.252
48.0	45.265
48.5	44.317
49.0	43.369
49.5	42.421
50.0	41.512
50.5	40.644
51.0	39.735
51.5	38.866
52.0	38.037
52.5	37.168
53.0	36.338
53.5	35.509
54.0	34.679
54.5	33.850

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CANDELA TABULATION - (Cont.)

55.0	33.060
55.5	32.270
56.0	31.480
56.5	30.690
57.0	29.900
57.5	29.150
58.0	28.360
58.5	27.609
59.0	26.859
59.5	26.148
60.0	25.397
60.5	24.647
61.0	23.896
61.5	23.185
62.0	22.435
62.5	21.724
63.0	21.013
63.5	20.302
64.0	19.591
64.5	18.880
65.0	18.209
65.5	17.537
66.0	16.866
66.5	16.155
67.0	15.523
67.5	14.891
68.0	14.219
68.5	13.587
69.0	12.955
69.5	12.323
70.0	11.731
70.5	11.099
71.0	10.506
71.5	9.875
72.0	9.282
72.5	8.690
73.0	8.097
73.5	7.505
74.0	6.952
74.5	6.359
75.0	5.806
75.5	5.293
76.0	4.779
76.5	4.384
77.0	4.029
77.5	3.713
78.0	3.476
78.5	3.278
79.0	3.120
79.5	2.962
80.0	2.765
80.5	2.607
81.0	2.449
81.5	2.291
82.0	2.093
82.5	1.935

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CANDELA TABULATION - (Cont.)

83.0	1.817
83.5	1.659
84.0	1.501
84.5	1.343
85.0	1.185
85.5	1.066
86.0	0.908
86.5	0.790
87.0	0.632
87.5	0.513
88.0	0.395
88.5	0.276
89.0	0.158
89.5	0.118
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
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125.5	0.000
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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
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151.5	0.000
152.0	0.000
152.5	0.000
153.0	0.000
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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	259.17	N.A.	40.30
0-30	458.81	N.A.	71.40
0-40	546.64	N.A.	85.00
0-60	616.85	N.A.	95.90
0-80	641.60	N.A.	99.80
0-90	642.97	N.A.	100.00
10-90	571.69	N.A.	88.90
20-40	287.47	N.A.	44.70
20-50	328.05	N.A.	51.00
40-70	88.31	N.A.	13.70
60-80	24.75	N.A.	3.80
70-80	6.65	N.A.	1.00
80-90	1.37	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	642.97	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	71.27
10-20	187.90
20-30	199.63
30-40	87.84
40-50	40.58
50-60	29.63
60-70	18.10
70-80	6.65
80-90	1.37
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

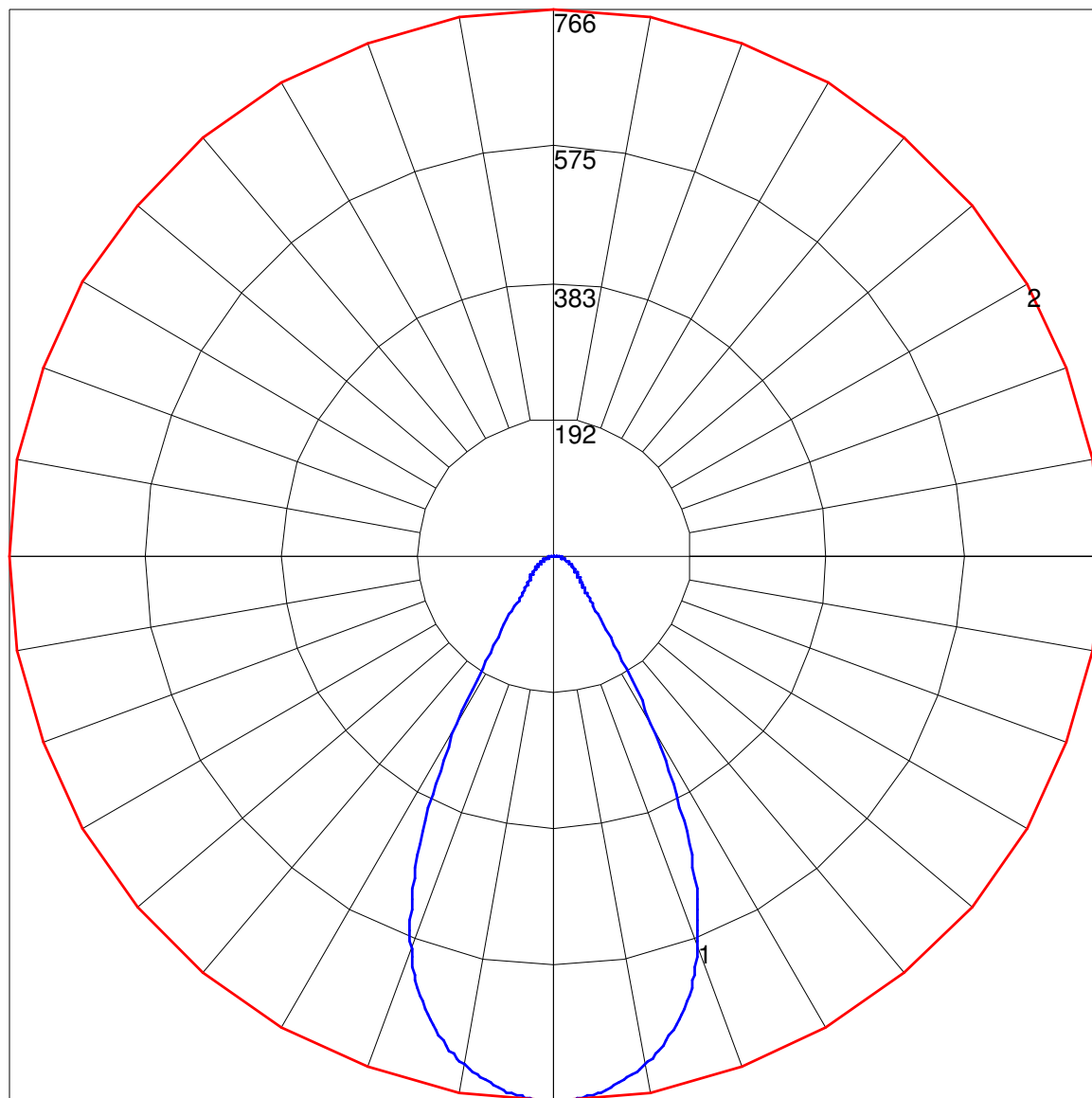
Reflectances

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	17.4	18.5	17.8	18.8	19.1	17.4	18.5	17.8	18.8	19.1
	3H	18.4	19.4	18.8	19.7	20.1	18.4	19.4	18.8	19.7	20.1
	4H	18.6	19.5	19.0	19.9	20.3	18.6	19.5	19.0	19.9	20.3
	6H	18.7	19.5	19.1	19.9	20.3	18.7	19.5	19.1	19.9	20.3
	8H	18.7	19.4	19.1	19.8	20.2	18.7	19.4	19.1	19.8	20.2
	12H	18.6	19.4	19.1	19.8	20.2	18.6	19.4	19.1	19.8	20.2
4H	2H	17.7	18.6	18.1	19.0	19.4	17.7	18.6	18.1	19.0	19.4
	3H	18.9	19.7	19.3	20.1	20.5	18.9	19.7	19.3	20.1	20.5
	4H	19.1	19.8	19.6	20.2	20.7	19.1	19.8	19.6	20.2	20.7
	6H	19.2	19.8	19.7	20.2	20.7	19.2	19.8	19.7	20.2	20.7
	8H	19.2	19.7	19.7	20.2	20.7	19.2	19.7	19.7	20.2	20.7
	12H	19.2	19.7	19.7	20.2	20.6	19.2	19.7	19.7	20.2	20.6
8H	4H	19.1	19.7	19.6	20.1	20.6	19.1	19.7	19.6	20.1	20.6
	6H	19.3	19.7	19.8	20.2	20.7	19.3	19.7	19.8	20.2	20.7
	8H	19.3	19.7	19.8	20.2	20.7	19.3	19.7	19.8	20.2	20.7
	12H	19.3	19.7	19.8	20.1	20.7	19.3	19.7	19.8	20.1	20.7
12H	4H	19.1	19.6	19.6	20.0	20.5	19.1	19.6	19.6	20.0	20.5
	6H	19.2	19.6	19.8	20.1	20.6	19.2	19.6	19.8	20.1	20.6
	8H	19.3	19.6	19.8	20.1	20.7	19.3	19.6	19.8	20.1	20.7

Maximum UGR = 20.7

POLAR GRAPH



Maximum Candela = 766.262 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.)