

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L8-850-DIM-UNV-RW-OF-CS_.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-CS_
[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	798
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	75
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	28597	28597	28597
55	22629	22629	22629
65	16915	16915	16915
75	8808	8808	8808
85	5338	5338	5338

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CANDELA TABULATION

	<u>0</u>
0.0	950.553
0.5	950.553
1.0	950.063
1.5	949.573
2.0	949.573
2.5	948.593
3.0	947.123
3.5	945.164
4.0	943.204
4.5	941.244
5.0	938.304
5.5	935.854
6.0	932.914
6.5	929.484
7.0	926.054
7.5	922.625
8.0	919.195
8.5	915.275
9.0	910.865
9.5	906.945
10.0	902.536
10.5	897.636
11.0	892.246
11.5	886.856
12.0	880.977
12.5	875.097
13.0	868.727
13.5	861.868
14.0	854.518
14.5	847.168
15.0	838.839
15.5	830.509
16.0	821.200
16.5	811.890
17.0	802.091
17.5	791.801
18.0	781.022
18.5	769.262
19.0	757.013
19.5	743.783
20.0	730.064
20.5	715.855
21.0	700.666
21.5	684.986
22.0	667.837
22.5	650.688
23.0	632.559
23.5	613.940
24.0	594.341
24.5	574.742
25.0	554.653
25.5	533.584
26.0	512.025
26.5	490.466

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CANDELA TABULATION - (Cont.)

27.0	469.054
27.5	447.544
28.0	425.838
28.5	404.230
29.0	382.132
29.5	359.887
30.0	337.838
30.5	316.132
31.0	294.721
31.5	274.044
32.0	254.150
32.5	235.335
33.0	217.892
33.5	201.723
34.0	186.681
34.5	172.912
35.0	160.418
35.5	148.953
36.0	138.565
36.5	129.256
37.0	120.975
37.5	113.576
38.0	106.864
38.5	100.886
39.0	95.643
39.5	91.038
40.0	86.922
40.5	83.345
41.0	80.160
41.5	77.318
42.0	74.770
42.5	72.516
43.0	70.459
43.5	68.646
44.0	66.931
44.5	65.363
45.0	63.893
45.5	62.472
46.0	61.149
46.5	59.826
47.0	58.601
47.5	57.376
48.0	56.151
48.5	54.975
49.0	53.799
49.5	52.623
50.0	51.496
50.5	50.419
51.0	49.292
51.5	48.214
52.0	47.185
52.5	46.107
53.0	45.078
53.5	44.049
54.0	43.020
54.5	41.991

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CANDELA TABULATION - (Cont.)

55.0	41.011
55.5	40.031
56.0	39.051
56.5	38.071
57.0	37.091
57.5	36.160
58.0	35.180
58.5	34.249
59.0	33.318
59.5	32.436
60.0	31.505
60.5	30.574
61.0	29.644
61.5	28.762
62.0	27.831
62.5	26.949
63.0	26.067
63.5	25.185
64.0	24.303
64.5	23.421
65.0	22.588
65.5	21.755
66.0	20.922
66.5	20.040
67.0	19.256
67.5	18.472
68.0	17.639
68.5	16.855
69.0	16.071
69.5	15.287
70.0	14.552
70.5	13.768
71.0	13.033
71.5	12.249
72.0	11.514
72.5	10.779
73.0	10.045
73.5	9.310
74.0	8.624
74.5	7.889
75.0	7.203
75.5	6.566
76.0	5.929
76.5	5.439
77.0	4.998
77.5	4.606
78.0	4.312
78.5	4.067
79.0	3.871
79.5	3.675
80.0	3.430
80.5	3.234
81.0	3.038
81.5	2.842
82.0	2.597
82.5	2.401

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CANDELA TABULATION - (Cont.)

83.0	2.254
83.5	2.058
84.0	1.862
84.5	1.666
85.0	1.470
85.5	1.323
86.0	1.127
86.5	0.980
87.0	0.784
87.5	0.637
88.0	0.490
88.5	0.343
89.0	0.196
89.5	0.147
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
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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
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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	321.51	N.A.	40.30
0-30	569.15	N.A.	71.40
0-40	678.11	N.A.	85.00
0-60	765.21	N.A.	95.90
0-80	795.91	N.A.	99.80
0-90	797.60	N.A.	100.00
10-90	709.19	N.A.	88.90
20-40	356.61	N.A.	44.70
20-50	406.95	N.A.	51.00
40-70	109.55	N.A.	13.70
60-80	30.70	N.A.	3.80
70-80	8.25	N.A.	1.00
80-90	1.70	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	797.60	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	88.42
10-20	233.09
20-30	247.64
30-40	108.96
40-50	50.34
50-60	36.76
60-70	22.45
70-80	8.25
80-90	1.70
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	96	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	74	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	54	51	59	54	51	50

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UGR TABLE - CORRECTED

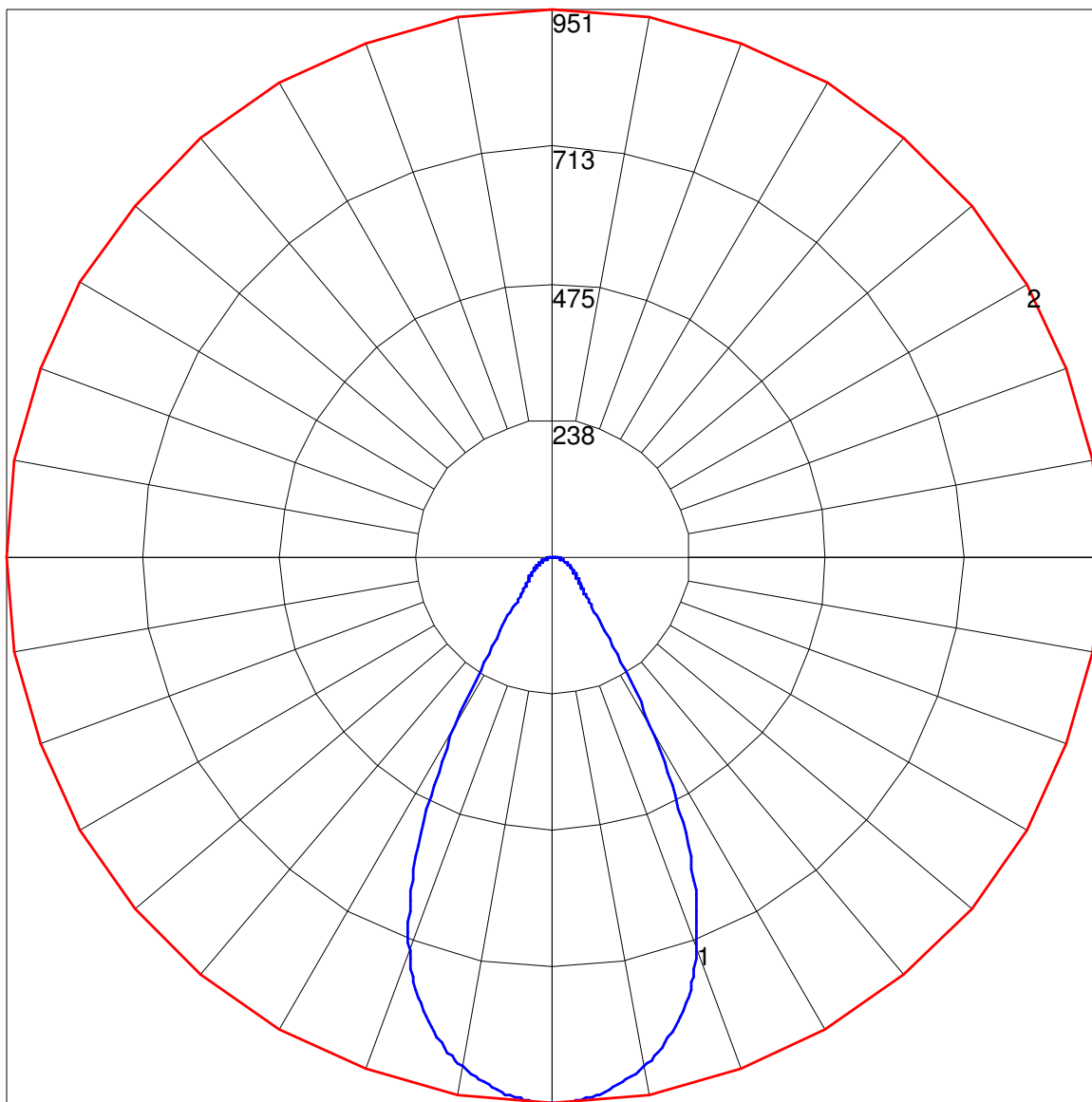
Reflectances

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	18.1	19.2	18.5	19.5	19.8	18.1	19.2	18.5	19.5	19.8
	3H	19.1	20.1	19.5	20.4	20.8	19.1	20.1	19.5	20.4	20.8
	4H	19.3	20.2	19.7	20.6	21.0	19.3	20.2	19.7	20.6	21.0
	6H	19.4	20.2	19.8	20.6	21.0	19.4	20.2	19.8	20.6	21.0
	8H	19.4	20.1	19.8	20.5	20.9	19.4	20.1	19.8	20.5	20.9
	12H	19.3	20.1	19.8	20.5	20.9	19.3	20.1	19.8	20.5	20.9
4H	2H	18.4	19.3	18.8	19.7	20.1	18.4	19.3	18.8	19.7	20.1
	3H	19.6	20.3	20.0	20.8	21.2	19.6	20.3	20.0	20.8	21.2
	4H	19.8	20.5	20.3	20.9	21.4	19.8	20.5	20.3	20.9	21.4
	6H	19.9	20.5	20.4	20.9	21.4	19.9	20.5	20.4	20.9	21.4
	8H	19.9	20.4	20.4	20.9	21.4	19.9	20.4	20.4	20.9	21.4
	12H	19.9	20.4	20.4	20.9	21.3	19.9	20.4	20.4	20.9	21.3
8H	4H	19.8	20.4	20.3	20.8	21.3	19.8	20.4	20.3	20.8	21.3
	6H	20.0	20.4	20.5	20.9	21.4	20.0	20.4	20.5	20.9	21.4
	8H	20.0	20.4	20.5	20.9	21.4	20.0	20.4	20.5	20.9	21.4
	12H	20.0	20.4	20.5	20.8	21.4	20.0	20.4	20.5	20.8	21.4
12H	4H	19.8	20.3	20.3	20.7	21.2	19.8	20.3	20.3	20.7	21.2
	6H	19.9	20.3	20.5	20.8	21.3	19.9	20.3	20.5	20.8	21.3
	8H	20.0	20.3	20.5	20.8	21.4	20.0	20.3	20.5	20.8	21.4

Maximum UGR = 21.4

POLAR GRAPH



Maximum Candela = 950.553 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.)