

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L8-835-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.
[ISSUEDATE] 2025-05-20
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] V2DR-L8-835-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	782
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	73
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	28036	28036	28036
55	22185	22185	22185
65	16583	16583	16583
75	8634	8634	8634
85	5233	5233	5233

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CANDELA TABULATION

	<u>0</u>
0.0	931.915
0.5	931.915
1.0	931.435
1.5	930.954
2.0	930.954
2.5	929.994
3.0	928.553
3.5	926.631
4.0	924.710
4.5	922.788
5.0	919.906
5.5	917.504
6.0	914.622
6.5	911.259
7.0	907.897
7.5	904.534
8.0	901.172
8.5	897.329
9.0	893.005
9.5	889.162
10.0	884.839
10.5	880.035
11.0	874.751
11.5	869.467
12.0	863.703
12.5	857.938
13.0	851.694
13.5	844.968
14.0	837.763
14.5	830.557
15.0	822.391
15.5	814.225
16.0	805.098
16.5	795.971
17.0	786.363
17.5	776.276
18.0	765.708
18.5	754.179
19.0	742.170
19.5	729.200
20.0	715.749
20.5	701.819
21.0	686.927
21.5	671.555
22.0	654.742
22.5	637.930
23.0	620.156
23.5	601.902
24.0	582.687
24.5	563.472
25.0	543.777
25.5	523.121
26.0	501.985
26.5	480.849

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CANDELA TABULATION - (Cont.)

27.0	459.857
27.5	438.769
28.0	417.488
28.5	396.304
29.0	374.639
29.5	352.831
30.0	331.214
30.5	309.934
31.0	288.942
31.5	268.670
32.0	249.167
32.5	230.721
33.0	213.620
33.5	197.768
34.0	183.020
34.5	169.522
35.0	157.273
35.5	146.032
36.0	135.848
36.5	126.721
37.0	118.603
37.5	111.349
38.0	104.768
38.5	98.908
39.0	93.768
39.5	89.252
40.0	85.217
40.5	81.711
41.0	78.588
41.5	75.802
42.0	73.304
42.5	71.095
43.0	69.077
43.5	67.300
44.0	65.618
44.5	64.081
45.0	62.640
45.5	61.247
46.0	59.950
46.5	58.653
47.0	57.452
47.5	56.251
48.0	55.050
48.5	53.897
49.0	52.744
49.5	51.592
50.0	50.487
50.5	49.430
51.0	48.325
51.5	47.268
52.0	46.259
52.5	45.203
53.0	44.194
53.5	43.185
54.0	42.176
54.5	41.168

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CANDELA TABULATION - (Cont.)

55.0	40.207
55.5	39.246
56.0	38.285
56.5	37.325
57.0	36.364
57.5	35.451
58.0	34.490
58.5	33.578
59.0	32.665
59.5	31.800
60.0	30.888
60.5	29.975
61.0	29.062
61.5	28.198
62.0	27.285
62.5	26.420
63.0	25.556
63.5	24.691
64.0	23.826
64.5	22.962
65.0	22.145
65.5	21.328
66.0	20.512
66.5	19.647
67.0	18.878
67.5	18.110
68.0	17.293
68.5	16.525
69.0	15.756
69.5	14.988
70.0	14.267
70.5	13.498
71.0	12.778
71.5	12.009
72.0	11.289
72.5	10.568
73.0	9.848
73.5	9.127
74.0	8.454
74.5	7.734
75.0	7.061
75.5	6.437
76.0	5.812
76.5	5.332
77.0	4.900
77.5	4.515
78.0	4.227
78.5	3.987
79.0	3.795
79.5	3.603
80.0	3.363
80.5	3.170
81.0	2.978
81.5	2.786
82.0	2.546
82.5	2.354

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PHOTOMETRIC FILENAME : V2DR-L8-835-DIM-UNV-RW-OF-CS_.IES

CANDELA TABULATION - (Cont.)

83.0	2.210
83.5	2.018
84.0	1.825
84.5	1.633
85.0	1.441
85.5	1.297
86.0	1.105
86.5	0.961
87.0	0.769
87.5	0.624
88.0	0.480
88.5	0.336
89.0	0.192
89.5	0.144
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
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126.0	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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V2DR-L8-835-DIM-UNV-RW-OF-CS_.IES

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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150.5	0.000
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151.5	0.000
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152.5	0.000
153.0	0.000
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154.0	0.000
154.5	0.000
155.0	0.000
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156.0	0.000
156.5	0.000
157.0	0.000
157.5	0.000
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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PHOTOMETRIC FILENAME : V2DR-L8-835-DIM-UNV-RW-OF-CS_.IES

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	315.20	N.A.	40.30
0-30	557.99	N.A.	71.40
0-40	664.82	N.A.	85.00
0-60	750.21	N.A.	95.90
0-80	780.30	N.A.	99.80
0-90	781.97	N.A.	100.00
10-90	695.28	N.A.	88.90
20-40	349.61	N.A.	44.70
20-50	398.97	N.A.	51.00
40-70	107.40	N.A.	13.70
60-80	30.10	N.A.	3.80
70-80	8.09	N.A.	1.00
80-90	1.66	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	781.97	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	86.68
10-20	228.52
20-30	242.79
30-40	106.83
40-50	49.35
50-60	36.04
60-70	22.01
70-80	8.09
80-90	1.66
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

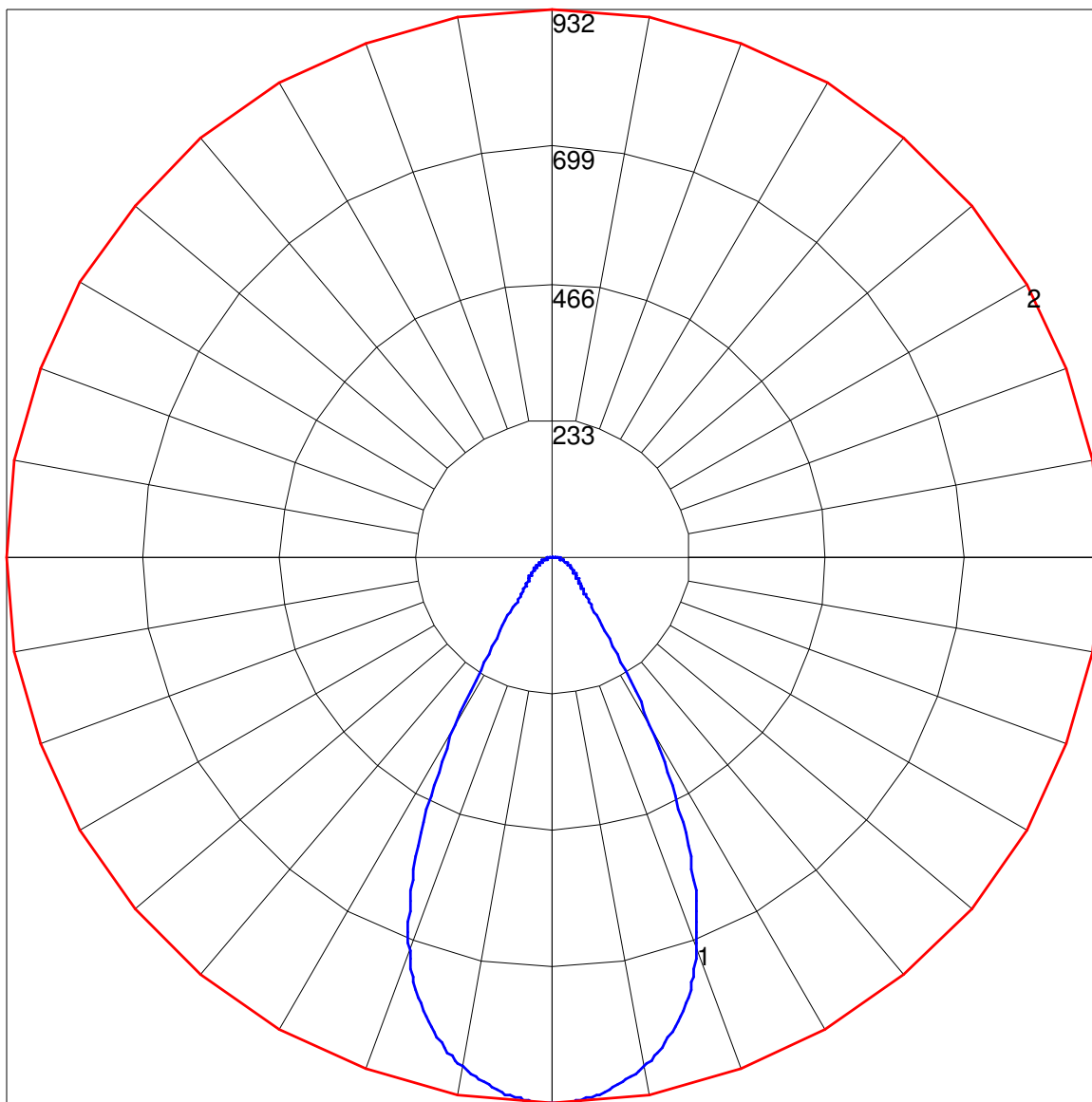
Reflectances

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	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	19.3	20.2	19.8	20.6	20.9	19.3	20.2	19.8	20.6	20.9
	8H	19.3	20.1	19.8	20.5	20.9	19.3	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	20.3	20.5	20.8	21.4	20.0	20.3	20.5	20.8	21.4
12H	4H	19.8	20.2	20.3	20.7	21.2	19.8	20.2	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 = 931.915 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.)