

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L8-835-DIM-UNV-LW-OF_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM 13257153.01
[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-LW-OF_
[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, Vandal-Resistant
[SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	822
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	77
Total Luminaire Watts	10.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.86
Spacing Criterion (90-270)	0.86
Spacing Criterion (Diagonal)	0.78
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	33905	33905	33905
55	29612	29612	29612
65	25296	25296	25296
75	20408	20408	20408
85	11431	11431	11431

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CANDELA TABULATION

	<u>0</u>
0.0	969.910
0.5	969.410
1.0	969.410
1.5	968.911
2.0	968.411
2.5	966.912
3.0	965.413
3.5	963.914
4.0	961.915
4.5	959.416
5.0	956.918
5.5	954.419
6.0	951.921
6.5	948.923
7.0	945.925
7.5	942.926
8.0	939.428
8.5	935.931
9.0	931.933
9.5	927.935
10.0	923.438
10.5	918.441
11.0	913.444
11.5	907.948
12.0	902.451
12.5	895.955
13.0	889.459
13.5	882.463
14.0	874.968
14.5	866.973
15.0	858.478
15.5	848.983
16.0	839.489
16.5	828.996
17.0	817.503
17.5	806.010
18.0	793.018
18.5	779.526
19.0	764.535
19.5	748.545
20.0	732.055
20.5	714.066
21.0	695.577
21.5	675.589
22.0	654.602
22.5	633.115
23.0	610.628
23.5	587.642
24.0	564.157
24.5	540.171
25.0	515.686
25.5	491.451
26.0	466.916
26.5	442.631

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CANDELA TABULATION - (Cont.)

27.0	418.695
27.5	395.260
28.0	372.323
28.5	349.937
29.0	328.250
29.5	307.113
30.0	287.275
30.5	268.537
31.0	250.847
31.5	234.357
32.0	218.917
32.5	204.576
33.0	191.434
33.5	179.391
34.0	168.448
34.5	158.454
35.0	149.359
35.5	141.114
36.0	133.669
36.5	127.023
37.0	121.026
37.5	115.680
38.0	110.883
38.5	106.535
39.0	102.638
39.5	99.140
40.0	95.942
40.5	93.093
41.0	90.495
41.5	88.096
42.0	85.898
42.5	83.849
43.0	82.000
43.5	80.301
44.0	78.702
44.5	77.203
45.0	75.754
45.5	74.405
46.0	73.106
46.5	71.856
47.0	70.657
47.5	69.458
48.0	68.308
48.5	67.159
49.0	66.010
49.5	64.911
50.0	63.861
50.5	62.812
51.0	61.712
51.5	60.713
52.0	59.664
52.5	58.664
53.0	57.665
53.5	56.666
54.0	55.666
54.5	54.667

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CANDELA TABULATION - (Cont.)

55.0	53.667
55.5	52.668
56.0	51.719
56.5	50.669
57.0	49.720
57.5	48.720
58.0	47.721
58.5	46.722
59.0	45.722
59.5	44.723
60.0	43.723
60.5	42.724
61.0	41.725
61.5	40.675
62.0	39.726
62.5	38.726
63.0	37.677
63.5	36.678
64.0	35.678
64.5	34.729
65.0	33.779
65.5	32.830
66.0	31.881
66.5	30.981
67.0	30.032
67.5	29.182
68.0	28.283
68.5	27.433
69.0	26.584
69.5	25.684
70.0	24.835
70.5	23.985
71.0	23.186
71.5	22.336
72.0	21.487
72.5	20.687
73.0	19.838
73.5	19.038
74.0	18.289
74.5	17.489
75.0	16.690
75.5	15.940
76.0	15.191
76.5	14.441
77.0	13.742
77.5	12.992
78.0	12.293
78.5	11.593
79.0	10.893
79.5	10.194
80.0	9.544
80.5	8.845
81.0	8.195
81.5	7.545
82.0	6.896
82.5	6.246

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CANDELA TABULATION - (Cont.)

83.0	5.647
83.5	4.997
84.0	4.397
84.5	3.748
85.0	3.148
85.5	2.498
86.0	1.849
86.5	1.399
87.0	0.999
87.5	0.600
88.0	0.400
88.5	0.300
89.0	0.200
89.5	0.150
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
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134.0	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
145.5	0.000
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146.5	0.000
147.0	0.000
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148.0	0.000
148.5	0.000
149.0	0.000
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151.0	0.000
151.5	0.000
152.0	0.000
152.5	0.000
153.0	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	327.91	N.A.	39.90
0-30	559.03	N.A.	68.00
0-40	659.44	N.A.	80.20
0-60	766.77	N.A.	93.30
0-80	818.15	N.A.	99.50
0-90	822.11	N.A.	100.00
10-90	731.80	N.A.	89.00
20-40	331.54	N.A.	40.30
20-50	390.87	N.A.	47.50
40-70	140.92	N.A.	17.10
60-80	51.37	N.A.	6.20
70-80	17.79	N.A.	2.20
80-90	3.96	N.A.	0.50
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	822.11	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	90.30
10-20	237.60
20-30	231.12
30-40	100.41
40-50	59.33
50-60	48.00
60-70	33.59
70-80	17.79
80-90	3.96
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	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76
4	94	86	80	75	93	85	79	75	83	78	74	81	76	73	79	75	72	70
5	89	80	74	69	88	79	73	69	77	72	68	76	71	68	74	70	67	65
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	63	61
7	81	71	64	60	79	70	64	60	69	63	59	67	63	59	66	62	59	57
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54
9	73	63	57	53	72	63	57	53	62	56	52	61	56	52	60	55	52	51
10	70	60	54	50	69	59	54	50	58	53	49	58	53	49	57	52	49	48

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UGR TABLE - CORRECTED

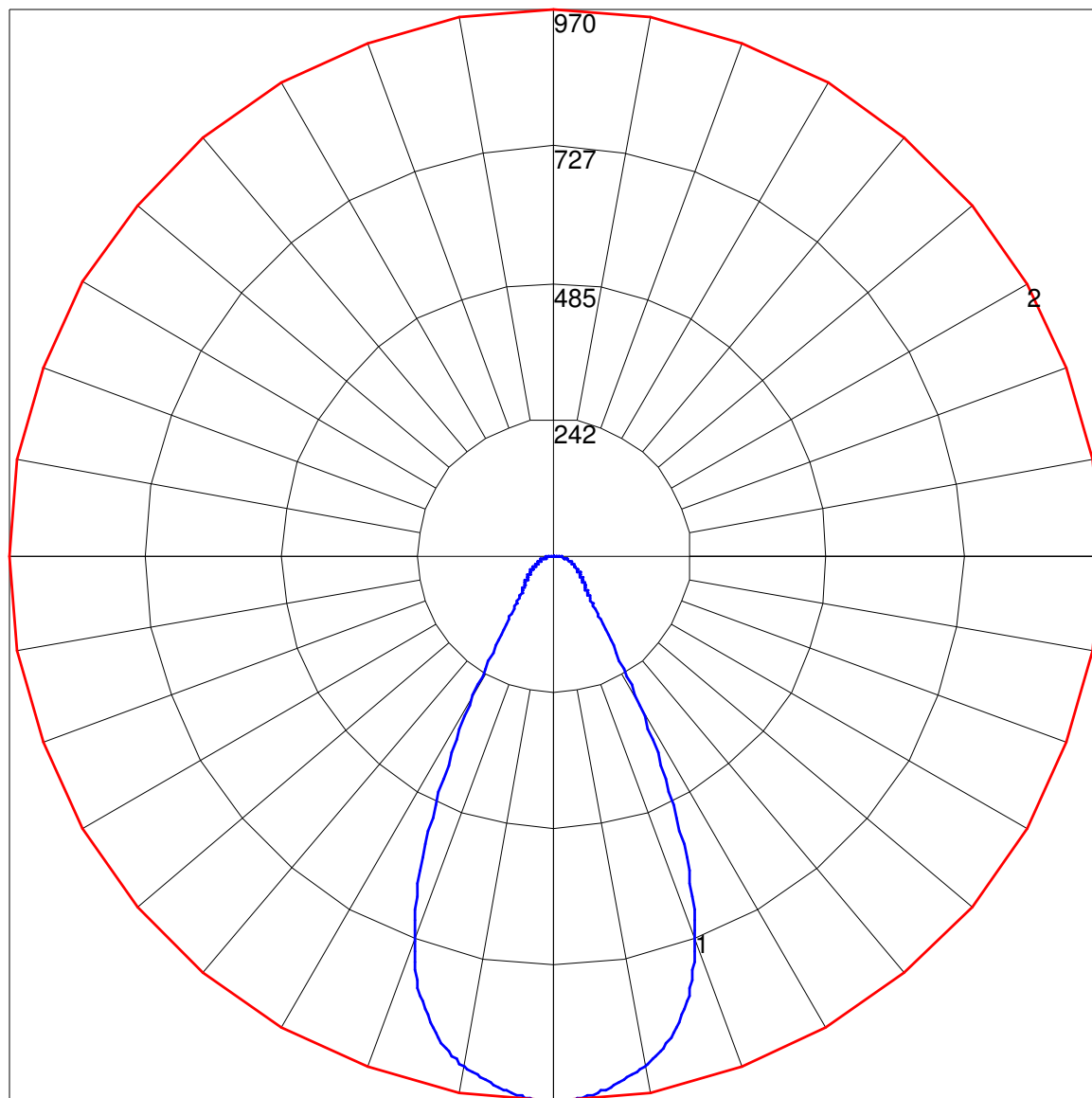
Reflectances

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	20.0	21.1	20.3	21.5	21.8	20.0	21.1	20.3	21.5	21.8
	3H	21.5	22.5	21.9	22.8	23.2	21.5	22.5	21.9	22.8	23.2
	4H	22.0	23.0	22.4	23.3	23.7	22.0	23.0	22.4	23.3	23.7
	6H	22.3	23.2	22.7	23.6	24.0	22.3	23.2	22.7	23.6	24.0
	8H	22.4	23.3	22.8	23.7	24.1	22.4	23.3	22.8	23.7	24.1
	12H	22.4	23.3	22.9	23.6	24.1	22.4	23.3	22.9	23.6	24.1
4H	2H	20.5	21.4	20.9	21.8	22.2	20.5	21.4	20.9	21.8	22.2
	3H	22.1	22.9	22.5	23.3	23.7	22.1	22.9	22.5	23.3	23.7
	4H	22.8	23.5	23.2	23.9	24.3	22.8	23.5	23.2	23.9	24.3
	6H	23.2	23.8	23.7	24.3	24.8	23.2	23.8	23.7	24.3	24.8
	8H	23.3	23.9	23.8	24.4	24.8	23.3	23.9	23.8	24.4	24.8
	12H	23.4	23.9	23.9	24.4	24.9	23.4	23.9	23.9	24.4	24.9
8H	4H	23.0	23.5	23.4	24.0	24.5	23.0	23.5	23.4	24.0	24.5
	6H	23.5	24.0	24.0	24.5	25.0	23.5	24.0	24.0	24.5	25.0
	8H	23.7	24.1	24.2	24.6	25.1	23.7	24.1	24.2	24.6	25.1
	12H	23.8	24.2	24.3	24.7	25.2	23.8	24.2	24.3	24.7	25.2
12H	4H	22.9	23.5	23.4	23.9	24.4	22.9	23.5	23.4	23.9	24.4
	6H	23.5	24.0	24.1	24.4	25.0	23.5	24.0	24.1	24.4	25.0
	8H	23.8	24.1	24.3	24.6	25.2	23.8	24.1	24.3	24.6	25.2

Maximum UGR = 25.2

POLAR GRAPH



Maximum Candela = 969.91 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.)