

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L8-830-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-L8-830-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	806
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)	0.86
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	33227	33227	33227
55	29020	29020	29020
65	24790	24790	24790
75	20000	20000	20000
85	11202	11202	11202

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CANDELA TABULATION

	<u>0</u>
0.0	950.512
0.5	950.022
1.0	950.022
1.5	949.532
2.0	949.043
2.5	947.574
3.0	946.104
3.5	944.635
4.0	942.677
4.5	940.228
5.0	937.780
5.5	935.331
6.0	932.883
6.5	929.944
7.0	927.006
7.5	924.068
8.0	920.640
8.5	917.212
9.0	913.294
9.5	909.377
10.0	904.969
10.5	900.072
11.0	895.175
11.5	889.789
12.0	884.402
12.5	878.036
13.0	871.670
13.5	864.814
14.0	857.468
14.5	849.633
15.0	841.308
15.5	832.004
16.0	822.700
16.5	812.416
17.0	801.153
17.5	789.889
18.0	777.157
18.5	763.935
19.0	749.244
19.5	733.574
20.0	717.414
20.5	699.784
21.0	681.665
21.5	662.077
22.0	641.510
22.5	620.453
23.0	598.416
23.5	575.890
24.0	552.874
24.5	529.368
25.0	505.373
25.5	481.622
26.0	457.578
26.5	433.778

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CANDELA TABULATION - (Cont.)

27.0	410.321
27.5	387.354
28.0	364.877
28.5	342.938
29.0	321.685
29.5	300.971
30.0	281.530
30.5	263.166
31.0	245.830
31.5	229.670
32.0	214.538
32.5	200.484
33.0	187.605
33.5	175.803
34.0	165.079
34.5	155.285
35.0	146.372
35.5	138.292
36.0	130.995
36.5	124.482
37.0	118.606
37.5	113.366
38.0	108.665
38.5	104.404
39.0	100.585
39.5	97.157
40.0	94.023
40.5	91.232
41.0	88.685
41.5	86.334
42.0	84.180
42.5	82.172
43.0	80.360
43.5	78.695
44.0	77.128
44.5	75.659
45.0	74.239
45.5	72.917
46.0	71.643
46.5	70.419
47.0	69.244
47.5	68.069
48.0	66.942
48.5	65.816
49.0	64.690
49.5	63.612
50.0	62.584
50.5	61.556
51.0	60.478
51.5	59.499
52.0	58.470
52.5	57.491
53.0	56.512
53.5	55.532
54.0	54.553
54.5	53.573

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CANDELA TABULATION - (Cont.)

55.0	52.594
55.5	51.615
56.0	50.684
56.5	49.656
57.0	48.725
57.5	47.746
58.0	46.767
58.5	45.787
59.0	44.808
59.5	43.828
60.0	42.849
60.5	41.870
61.0	40.890
61.5	39.862
62.0	38.931
62.5	37.952
63.0	36.924
63.5	35.944
64.0	34.965
64.5	34.034
65.0	33.104
65.5	32.173
66.0	31.243
66.5	30.362
67.0	29.431
67.5	28.599
68.0	27.717
68.5	26.885
69.0	26.052
69.5	25.171
70.0	24.338
70.5	23.506
71.0	22.722
71.5	21.890
72.0	21.057
72.5	20.274
73.0	19.441
73.5	18.658
74.0	17.923
74.5	17.140
75.0	16.356
75.5	15.621
76.0	14.887
76.5	14.152
77.0	13.467
77.5	12.732
78.0	12.047
78.5	11.361
79.0	10.676
79.5	9.990
80.0	9.353
80.5	8.668
81.0	8.031
81.5	7.395
82.0	6.758
82.5	6.121

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CANDELA TABULATION - (Cont.)

83.0	5.534
83.5	4.897
84.0	4.309
84.5	3.673
85.0	3.085
85.5	2.449
86.0	1.812
86.5	1.371
87.0	0.979
87.5	0.588
88.0	0.392
88.5	0.294
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
116.5	0.000
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125.5	0.000
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134.5	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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152.0	0.000
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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	321.35	N.A.	39.90
0-30	547.85	N.A.	68.00
0-40	646.25	N.A.	80.20
0-60	751.44	N.A.	93.30
0-80	801.79	N.A.	99.50
0-90	805.67	N.A.	100.00
10-90	717.17	N.A.	89.00
20-40	324.91	N.A.	40.30
20-50	383.05	N.A.	47.50
40-70	138.10	N.A.	17.10
60-80	50.35	N.A.	6.20
70-80	17.43	N.A.	2.20
80-90	3.88	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	805.67	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	88.50
10-20	232.85
20-30	226.50
30-40	98.41
40-50	58.15
50-60	47.04
60-70	32.91
70-80	17.43
80-90	3.88
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	97	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	62	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	62	57	53	62	56	52	61	56	52	60	55	52	51
10	70	60	54	50	69	59	53	50	58	53	49	58	53	49	57	52	49	48

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UGR TABLE - CORRECTED

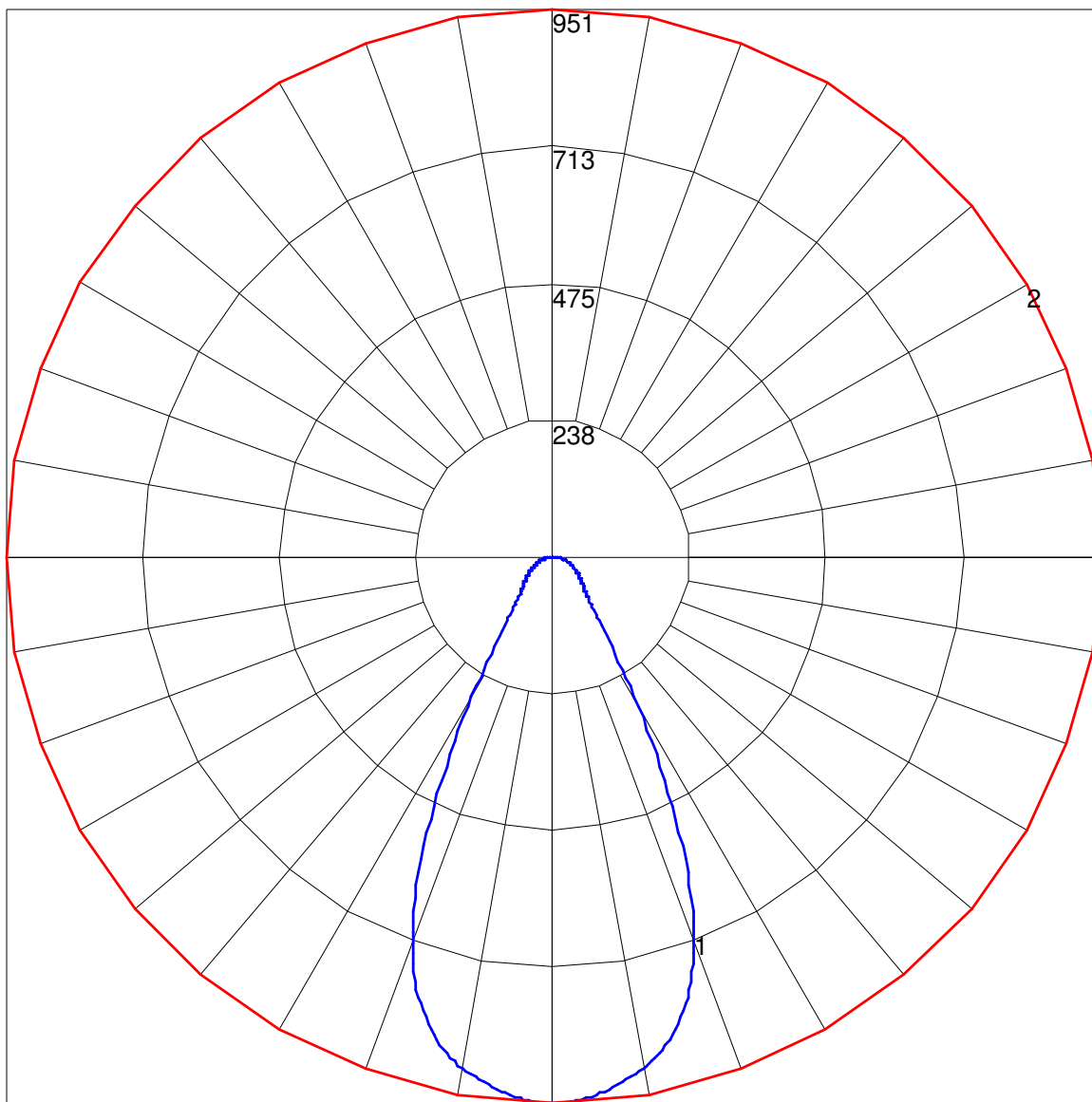
Reflectances

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	22.6	23.3	23.8	22.1	22.9	22.6	23.3	23.8
	4H	22.8	23.5	23.2	23.9	24.4	22.8	23.5	23.2	23.9	24.4
	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 = 950.512 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.)