

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L8-827-DIM-UNV-RW-OF-WH_.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-L8-827-DIM-UNV-RW-OF-WH_
[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	734
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	69
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	26319	26319	26319
55	20826	20826	20826
65	15568	15568	15568
75	8106	8106	8106
85	4913	4913	4913

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CANDELA TABULATION

	<u>0</u>
0.0	874.859
0.5	874.859
1.0	874.408
1.5	873.957
2.0	873.957
2.5	873.055
3.0	871.702
3.5	869.898
4.0	868.095
4.5	866.291
5.0	863.585
5.5	861.330
6.0	858.624
6.5	855.468
7.0	852.311
7.5	849.154
8.0	845.998
8.5	842.390
9.0	838.331
9.5	834.724
10.0	830.665
10.5	826.155
11.0	821.195
11.5	816.234
12.0	810.823
12.5	805.411
13.0	799.549
13.5	793.235
14.0	786.471
14.5	779.707
15.0	772.040
15.5	764.374
16.0	755.806
16.5	747.238
17.0	738.219
17.5	728.748
18.0	718.827
18.5	708.004
19.0	696.730
19.5	684.555
20.0	671.928
20.5	658.850
21.0	644.870
21.5	630.440
22.0	614.656
22.5	598.872
23.0	582.187
23.5	565.051
24.0	547.012
24.5	528.974
25.0	510.485
25.5	491.093
26.0	471.251
26.5	451.409

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CANDELA TABULATION - (Cont.)

27.0	431.702
27.5	411.905
28.0	391.928
28.5	372.041
29.0	351.702
29.5	331.229
30.0	310.936
30.5	290.958
31.0	271.251
31.5	252.221
32.0	233.912
32.5	216.595
33.0	200.541
33.5	185.659
34.0	171.815
34.5	159.143
35.0	147.644
35.5	137.091
36.0	127.531
36.5	118.963
37.0	111.342
37.5	104.532
38.0	98.354
38.5	92.852
39.0	88.027
39.5	83.788
40.0	80.000
40.5	76.708
41.0	73.777
41.5	71.161
42.0	68.816
42.5	66.742
43.0	64.848
43.5	63.179
44.0	61.601
44.5	60.158
45.0	58.805
45.5	57.497
46.0	56.280
46.5	55.062
47.0	53.935
47.5	52.807
48.0	51.680
48.5	50.598
49.0	49.515
49.5	48.433
50.0	47.396
50.5	46.404
51.0	45.366
51.5	44.374
52.0	43.427
52.5	42.435
53.0	41.488
53.5	40.541
54.0	39.594
54.5	38.647

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CANDELA TABULATION - (Cont.)

55.0	37.745
55.5	36.843
56.0	35.941
56.5	35.039
57.0	34.138
57.5	33.281
58.0	32.379
58.5	31.522
59.0	30.665
59.5	29.853
60.0	28.997
60.5	28.140
61.0	27.283
61.5	26.471
62.0	25.614
62.5	24.803
63.0	23.991
63.5	23.179
64.0	22.368
64.5	21.556
65.0	20.789
65.5	20.023
66.0	19.256
66.5	18.444
67.0	17.723
67.5	17.001
68.0	16.234
68.5	15.513
69.0	14.791
69.5	14.070
70.0	13.393
70.5	12.672
71.0	11.995
71.5	11.274
72.0	10.598
72.5	9.921
73.0	9.245
73.5	8.568
74.0	7.937
74.5	7.260
75.0	6.629
75.5	6.043
76.0	5.457
76.5	5.006
77.0	4.600
77.5	4.239
78.0	3.968
78.5	3.743
79.0	3.563
79.5	3.382
80.0	3.157
80.5	2.976
81.0	2.796
81.5	2.616
82.0	2.390
82.5	2.210

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CANDELA TABULATION - (Cont.)

83.0	2.074
83.5	1.894
84.0	1.714
84.5	1.533
85.0	1.353
85.5	1.218
86.0	1.037
86.5	0.902
87.0	0.722
87.5	0.586
88.0	0.451
88.5	0.316
89.0	0.180
89.5	0.135
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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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
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153.5	0.000
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156.0	0.000
156.5	0.000
157.0	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	295.90	N.A.	40.30
0-30	523.83	N.A.	71.40
0-40	624.11	N.A.	85.00
0-60	704.28	N.A.	95.90
0-80	732.53	N.A.	99.80
0-90	734.09	N.A.	100.00
10-90	652.71	N.A.	88.90
20-40	328.21	N.A.	44.70
20-50	374.54	N.A.	51.00
40-70	100.82	N.A.	13.70
60-80	28.25	N.A.	3.80
70-80	7.59	N.A.	1.00
80-90	1.56	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	734.09	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	81.38
10-20	214.53
20-30	227.92
30-40	100.29
40-50	46.33
50-60	33.83
60-70	20.66
70-80	7.59
80-90	1.56
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	86	83	80	79
4	96	88	82	78	94	87	81	77	85	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	73	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

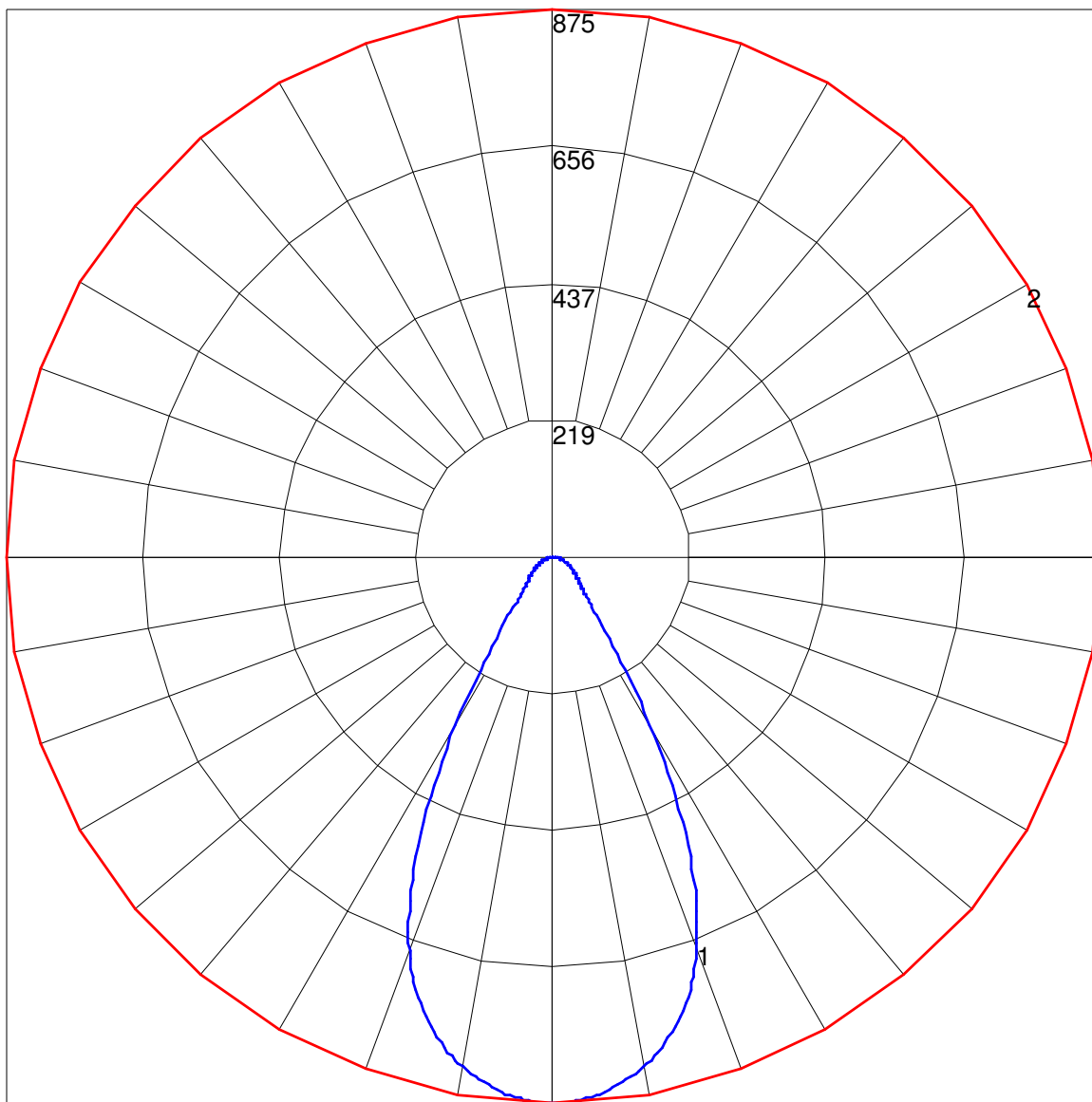
Reflectances

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	17.9	19.0	18.3	19.3	19.6	17.9	19.0	18.3	19.3	19.6
	3H	18.9	19.9	19.3	20.2	20.6	18.9	19.9	19.3	20.2	20.6
	4H	19.1	20.0	19.5	20.4	20.8	19.1	20.0	19.5	20.4	20.8
	6H	19.2	20.0	19.6	20.4	20.8	19.2	20.0	19.6	20.4	20.8
	8H	19.2	19.9	19.6	20.3	20.7	19.2	19.9	19.6	20.3	20.7
	12H	19.1	19.9	19.6	20.3	20.7	19.1	19.9	19.6	20.3	20.7
4H	2H	18.2	19.1	18.6	19.5	19.9	18.2	19.1	18.6	19.5	19.9
	3H	19.4	20.1	19.8	20.6	21.0	19.4	20.1	19.8	20.6	21.0
	4H	19.6	20.3	20.1	20.7	21.2	19.6	20.3	20.1	20.7	21.2
	6H	19.7	20.3	20.2	20.7	21.2	19.7	20.3	20.2	20.7	21.2
	8H	19.7	20.2	20.2	20.7	21.2	19.7	20.2	20.2	20.7	21.2
	12H	19.7	20.2	20.2	20.7	21.1	19.7	20.2	20.2	20.7	21.1
8H	4H	19.6	20.2	20.1	20.6	21.1	19.6	20.2	20.1	20.6	21.1
	6H	19.8	20.2	20.3	20.7	21.2	19.8	20.2	20.3	20.7	21.2
	8H	19.8	20.2	20.3	20.7	21.2	19.8	20.2	20.3	20.7	21.2
	12H	19.8	20.2	20.3	20.6	21.2	19.8	20.2	20.3	20.6	21.2
12H	4H	19.6	20.1	20.1	20.5	21.0	19.6	20.1	20.1	20.5	21.0
	6H	19.7	20.1	20.3	20.6	21.1	19.7	20.1	20.3	20.6	21.1
	8H	19.8	20.1	20.3	20.6	21.2	19.8	20.1	20.3	20.6	21.2

Maximum UGR = 21.2

POLAR GRAPH



Maximum Candela = 874.859 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.)