

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L8-827-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-L8-827-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 met
[MORE] hod 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	719
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	67
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	25793	25793	25793
55	20410	20410	20410
65	15256	15256	15256
75	7944	7944	7944
85	4815	4815	4815

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CANDELA TABULATION

	<u>0</u>
0.0	857.362
0.5	857.362
1.0	856.920
1.5	856.478
2.0	856.478
2.5	855.594
3.0	854.268
3.5	852.500
4.0	850.733
4.5	848.965
5.0	846.313
5.5	844.104
6.0	841.452
6.5	838.358
7.0	835.265
7.5	832.171
8.0	829.078
8.5	825.542
9.0	821.565
9.5	818.029
10.0	814.052
10.5	809.632
11.0	804.771
11.5	799.910
12.0	794.606
12.5	789.303
13.0	783.558
13.5	777.371
14.0	770.742
14.5	764.113
15.0	756.600
15.5	749.087
16.0	740.690
16.5	732.293
17.0	723.454
17.5	714.174
18.0	704.451
18.5	693.844
19.0	682.796
19.5	670.864
20.0	658.489
20.5	645.673
21.0	631.973
21.5	617.831
22.0	602.363
22.5	586.895
23.0	570.543
23.5	553.750
24.0	536.072
24.5	518.395
25.0	500.275
25.5	481.272
26.0	461.826
26.5	442.381

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CANDELA TABULATION - (Cont.)

27.0	423.068
27.5	403.667
28.0	384.089
28.5	364.600
29.0	344.668
29.5	324.604
30.0	304.717
30.5	285.139
31.0	265.826
31.5	247.177
32.0	229.234
32.5	212.263
33.0	196.530
33.5	181.946
34.0	168.379
34.5	155.960
35.0	144.691
35.5	134.349
36.0	124.980
36.5	116.584
37.0	109.115
37.5	102.441
38.0	96.387
38.5	90.995
39.0	86.267
39.5	82.112
40.0	78.400
40.5	75.174
41.0	72.301
41.5	69.738
42.0	67.440
42.5	65.407
43.0	63.551
43.5	61.916
44.0	60.369
44.5	58.955
45.0	57.629
45.5	56.347
46.0	55.154
46.5	53.961
47.0	52.856
47.5	51.751
48.0	50.646
48.5	49.586
49.0	48.525
49.5	47.464
50.0	46.448
50.5	45.476
51.0	44.459
51.5	43.487
52.0	42.559
52.5	41.586
53.0	40.658
53.5	39.730
54.0	38.802
54.5	37.874

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CANDELA TABULATION - (Cont.)

55.0	36.990
55.5	36.106
56.0	35.223
56.5	34.339
57.0	33.455
57.5	32.615
58.0	31.731
58.5	30.892
59.0	30.052
59.5	29.256
60.0	28.417
60.5	27.577
61.0	26.737
61.5	25.942
62.0	25.102
62.5	24.307
63.0	23.511
63.5	22.716
64.0	21.920
64.5	21.125
65.0	20.373
65.5	19.622
66.0	18.871
66.5	18.075
67.0	17.368
67.5	16.661
68.0	15.910
68.5	15.203
69.0	14.496
69.5	13.788
70.0	13.126
70.5	12.418
71.0	11.756
71.5	11.048
72.0	10.386
72.5	9.723
73.0	9.060
73.5	8.397
74.0	7.778
74.5	7.115
75.0	6.497
75.5	5.922
76.0	5.347
76.5	4.906
77.0	4.508
77.5	4.154
78.0	3.889
78.5	3.668
79.0	3.491
79.5	3.315
80.0	3.094
80.5	2.917
81.0	2.740
81.5	2.563
82.0	2.342
82.5	2.166

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CANDELA TABULATION - (Cont.)

83.0	2.033
83.5	1.856
84.0	1.679
84.5	1.503
85.0	1.326
85.5	1.193
86.0	1.016
86.5	0.884
87.0	0.707
87.5	0.575
88.0	0.442
88.5	0.309
89.0	0.177
89.5	0.133
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
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98.5	0.000
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99.5	0.000
100.0	0.000
100.5	0.000
101.0	0.000
101.5	0.000
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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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149.0	0.000
149.5	0.000
150.0	0.000
150.5	0.000
151.0	0.000
151.5	0.000
152.0	0.000
152.5	0.000
153.0	0.000
153.5	0.000
154.0	0.000
154.5	0.000
155.0	0.000
155.5	0.000
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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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	289.99	N.A.	40.30
0-30	513.35	N.A.	71.40
0-40	611.63	N.A.	85.00
0-60	690.19	N.A.	95.90
0-80	717.88	N.A.	99.80
0-90	719.41	N.A.	100.00
10-90	639.66	N.A.	88.90
20-40	321.64	N.A.	44.70
20-50	367.05	N.A.	51.00
40-70	98.81	N.A.	13.70
60-80	27.69	N.A.	3.80
70-80	7.44	N.A.	1.00
80-90	1.53	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	719.41	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	79.75
10-20	210.24
20-30	223.37
30-40	98.28
40-50	45.41
50-60	33.15
60-70	20.25
70-80	7.44
80-90	1.53
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	111	108	105	103	104	102	100	100	99	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	83	79	75	81	77	74	73
5	91	82	76	72	89	81	76	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	62	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

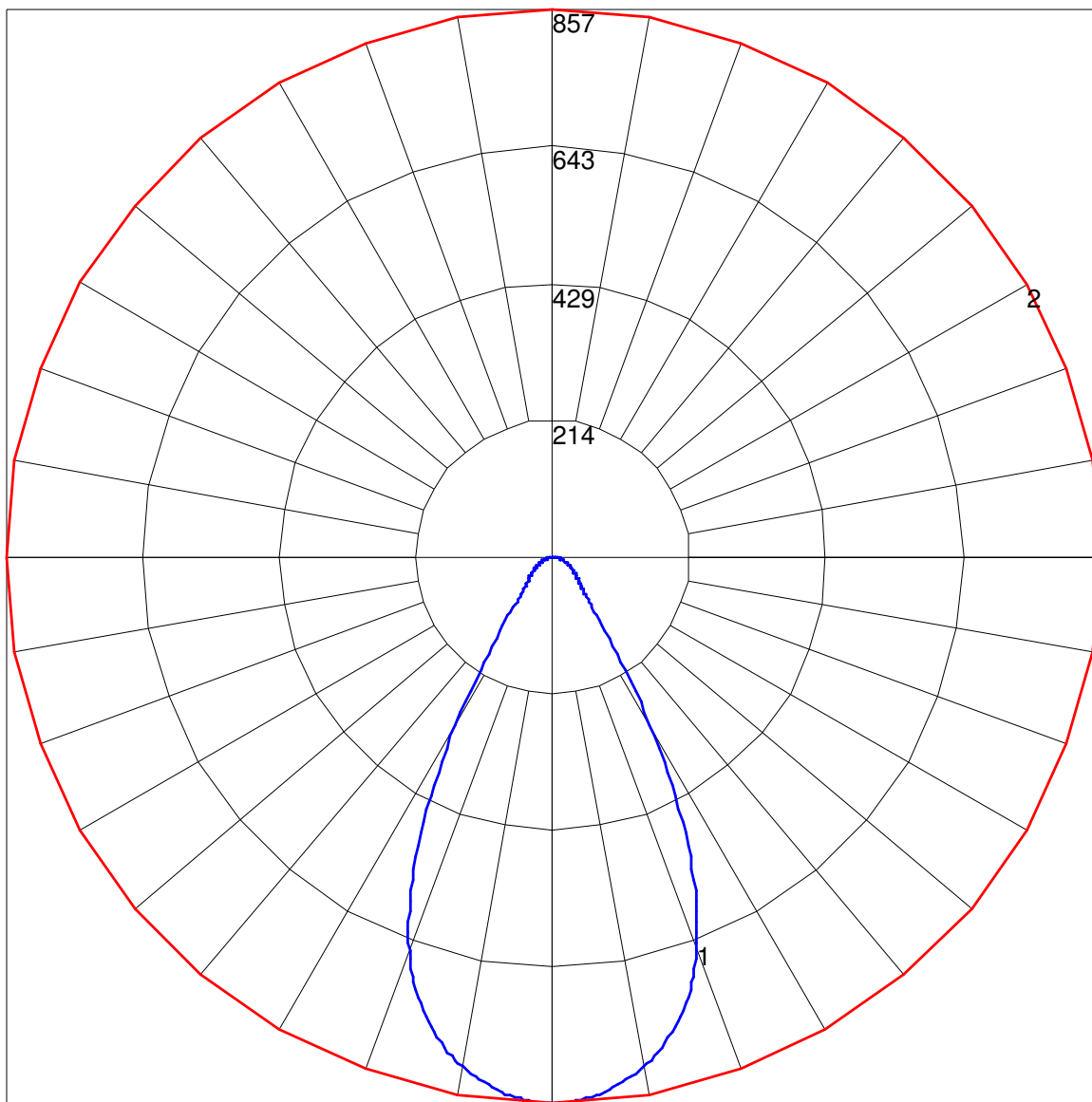
Reflectances

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	17.8	18.9	18.2	19.2	19.5	17.8	18.9	18.2	19.2	19.5
	3H	18.8	19.8	19.2	20.1	20.5	18.8	19.8	19.2	20.1	20.5
	4H	19.0	19.9	19.4	20.3	20.7	19.0	19.9	19.4	20.3	20.7
	6H	19.1	19.9	19.5	20.3	20.7	19.1	19.9	19.5	20.3	20.7
	8H	19.1	19.8	19.5	20.2	20.6	19.1	19.8	19.5	20.2	20.6
	12H	19.0	19.8	19.5	20.2	20.6	19.0	19.8	19.5	20.2	20.6
4H	2H	18.1	19.0	18.5	19.4	19.8	18.1	19.0	18.5	19.4	19.8
	3H	19.3	20.1	19.7	20.5	20.9	19.3	20.1	19.7	20.5	20.9
	4H	19.5	20.2	20.0	20.6	21.1	19.5	20.2	20.0	20.6	21.1
	6H	19.6	20.2	20.1	20.6	21.1	19.6	20.2	20.1	20.6	21.1
	8H	19.6	20.2	20.1	20.6	21.1	19.6	20.2	20.1	20.6	21.1
	12H	19.6	20.1	20.1	20.6	21.0	19.6	20.1	20.1	20.6	21.0
8H	4H	19.5	20.1	20.0	20.5	21.0	19.5	20.1	20.0	20.5	21.0
	6H	19.7	20.1	20.2	20.6	21.1	19.7	20.1	20.2	20.6	21.1
	8H	19.7	20.1	20.2	20.6	21.1	19.7	20.1	20.2	20.6	21.1
	12H	19.7	20.1	20.2	20.5	21.1	19.7	20.1	20.2	20.5	21.1
12H	4H	19.5	20.0	20.0	20.4	20.9	19.5	20.0	20.0	20.4	20.9
	6H	19.6	20.0	20.2	20.5	21.0	19.6	20.0	20.2	20.5	21.0
	8H	19.7	20.0	20.2	20.5	21.1	19.7	20.0	20.2	20.5	21.1

Maximum UGR = 21.1

POLAR GRAPH



Maximum Candela = 857.362 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.)