

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L5-927-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-L5-927-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	365
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	54
Total Luminaire Watts	6.7
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	13083	13083	13083
55	10353	10353	10353
65	7739	7739	7739
75	4029	4029	4029
85	2444	2444	2444

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CANDELA TABULATION

	<u>0</u>
0.0	434.894
0.5	434.894
1.0	434.670
1.5	434.445
2.0	434.445
2.5	433.997
3.0	433.324
3.5	432.428
4.0	431.531
4.5	430.634
5.0	429.289
5.5	428.169
6.0	426.823
6.5	425.254
7.0	423.685
7.5	422.116
8.0	420.547
8.5	418.753
9.0	416.736
9.5	414.942
10.0	412.925
10.5	410.683
11.0	408.217
11.5	405.751
12.0	403.061
12.5	400.371
13.0	397.457
13.5	394.319
14.0	390.956
14.5	387.593
15.0	383.782
15.5	379.972
16.0	375.712
16.5	371.453
17.0	366.970
17.5	362.262
18.0	357.330
18.5	351.950
19.0	346.346
19.5	340.293
20.0	334.016
20.5	327.515
21.0	320.566
21.5	313.392
22.0	305.546
22.5	297.700
23.0	289.406
23.5	280.888
24.0	271.921
24.5	262.954
25.0	253.763
25.5	244.123
26.0	234.260
26.5	224.396

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CANDELA TABULATION - (Cont.)

27.0	214.600
27.5	204.759
28.0	194.828
28.5	184.942
29.0	174.832
29.5	164.654
30.0	154.567
30.5	144.636
31.0	134.839
31.5	125.379
32.0	116.278
32.5	107.670
33.0	99.689
33.5	92.292
34.0	85.410
34.5	79.110
35.0	73.394
35.5	68.148
36.0	63.396
36.5	59.137
37.0	55.348
37.5	51.963
38.0	48.892
38.5	46.157
39.0	43.758
39.5	41.651
40.0	39.768
40.5	38.132
41.0	36.675
41.5	35.374
42.0	34.209
42.5	33.177
43.0	32.236
43.5	31.406
44.0	30.622
44.5	29.905
45.0	29.232
45.5	28.582
46.0	27.977
46.5	27.371
47.0	26.811
47.5	26.251
48.0	25.690
48.5	25.152
49.0	24.614
49.5	24.076
50.0	23.560
50.5	23.067
51.0	22.552
51.5	22.059
52.0	21.588
52.5	21.095
53.0	20.624
53.5	20.153
54.0	19.682
54.5	19.212

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CANDELA TABULATION - (Cont.)

55.0	18.763
55.5	18.315
56.0	17.867
56.5	17.418
57.0	16.970
57.5	16.544
58.0	16.096
58.5	15.670
59.0	15.244
59.5	14.840
60.0	14.414
60.5	13.988
61.0	13.562
61.5	13.159
62.0	12.733
62.5	12.329
63.0	11.926
63.5	11.522
64.0	11.119
64.5	10.715
65.0	10.334
65.5	9.953
66.0	9.572
66.5	9.169
67.0	8.810
67.5	8.451
68.0	8.070
68.5	7.712
69.0	7.353
69.5	6.994
70.0	6.658
70.5	6.299
71.0	5.963
71.5	5.604
72.0	5.268
72.5	4.932
73.0	4.596
73.5	4.259
74.0	3.945
74.5	3.609
75.0	3.295
75.5	3.004
76.0	2.712
76.5	2.488
77.0	2.287
77.5	2.107
78.0	1.973
78.5	1.861
79.0	1.771
79.5	1.681
80.0	1.569
80.5	1.480
81.0	1.390
81.5	1.300
82.0	1.188
82.5	1.098

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CANDELA TABULATION - (Cont.)

83.0	1.031
83.5	0.942
84.0	0.852
84.5	0.762
85.0	0.673
85.5	0.605
86.0	0.516
86.5	0.448
87.0	0.359
87.5	0.291
88.0	0.224
88.5	0.157
89.0	0.090
89.5	0.067
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
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128.0	0.000
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130.0	0.000
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134.0	0.000
134.5	0.000
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
146.0	0.000
146.5	0.000
147.0	0.000
147.5	0.000
148.0	0.000
148.5	0.000
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
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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	147.09	N.A.	40.30
0-30	260.40	N.A.	71.40
0-40	310.25	N.A.	85.00
0-60	350.10	N.A.	95.90
0-80	364.14	N.A.	99.80
0-90	364.92	N.A.	100.00
10-90	324.47	N.A.	88.90
20-40	163.15	N.A.	44.70
20-50	186.19	N.A.	51.00
40-70	50.12	N.A.	13.70
60-80	14.05	N.A.	3.90
70-80	3.77	N.A.	1.00
80-90	0.78	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	364.92	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	40.45
10-20	106.64
20-30	113.30
30-40	49.85
40-50	23.03
50-60	16.82
60-70	10.27
70-80	3.77
80-90	0.78
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	71	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

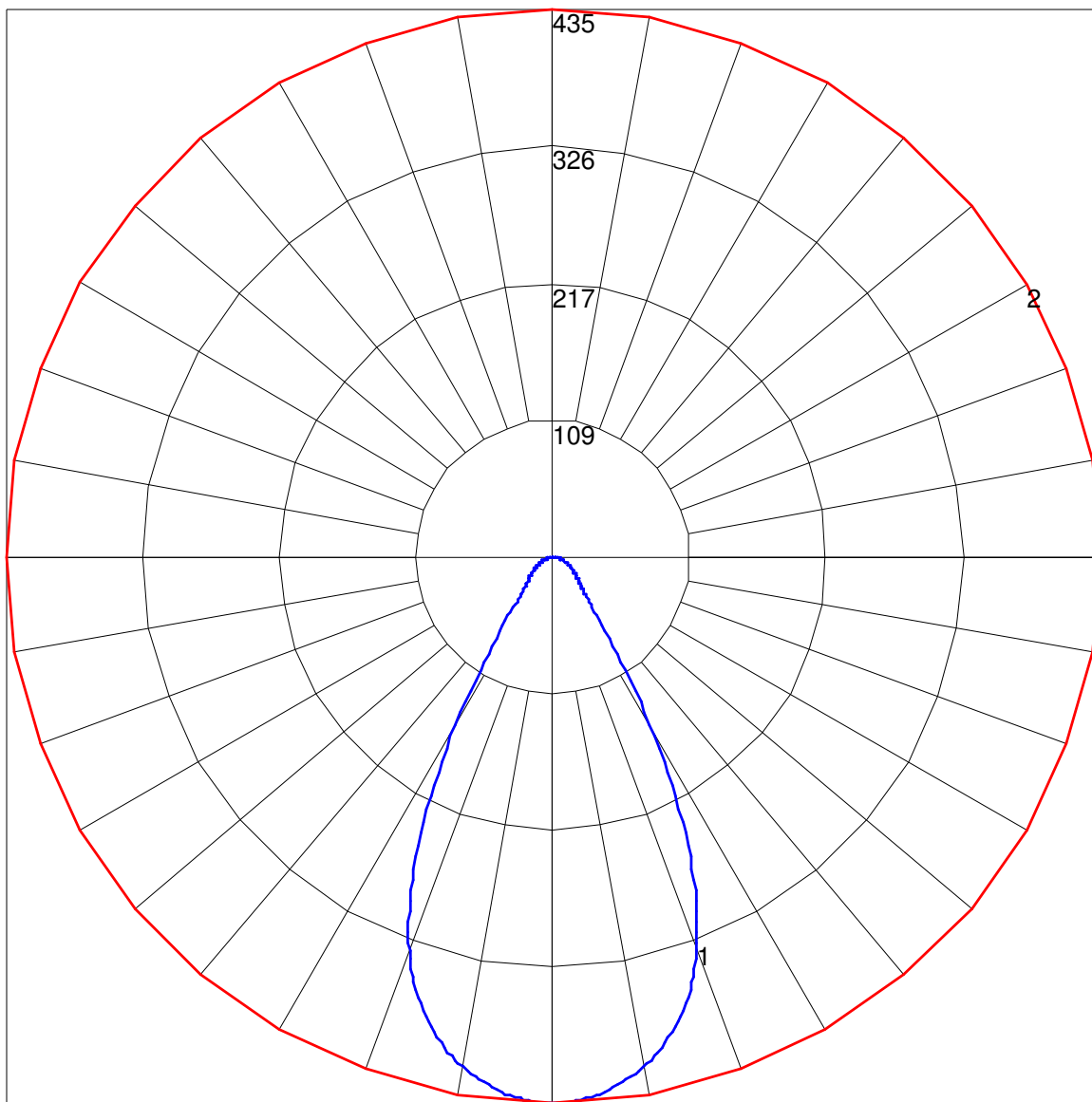
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UGR TABLE - CORRECTED

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	15.4	16.5	15.8	16.8	17.1	15.4	16.5	15.8	16.8	17.1
	3H	16.4	17.4	16.8	17.7	18.1	16.4	17.4	16.8	17.7	18.1
	4H	16.6	17.5	17.0	17.9	18.3	16.6	17.5	17.0	17.9	18.3
	6H	16.6	17.5	17.1	17.9	18.3	16.6	17.5	17.1	17.9	18.3
	8H	16.6	17.4	17.1	17.8	18.2	16.6	17.4	17.1	17.8	18.2
	12H	16.6	17.4	17.1	17.8	18.2	16.6	17.4	17.1	17.8	18.2
4H	2H	15.7	16.6	16.1	17.0	17.4	15.7	16.6	16.1	17.0	17.4
	3H	16.9	17.6	17.3	18.1	18.5	16.9	17.6	17.3	18.1	18.5
	4H	17.1	17.8	17.6	18.2	18.7	17.1	17.8	17.6	18.2	18.7
	6H	17.2	17.8	17.7	18.2	18.7	17.2	17.8	17.7	18.2	18.7
	8H	17.2	17.7	17.7	18.2	18.7	17.2	17.7	17.7	18.2	18.7
	12H	17.2	17.7	17.7	18.2	18.6	17.2	17.7	17.7	18.2	18.6
8H	4H	17.1	17.7	17.6	18.1	18.6	17.1	17.7	17.6	18.1	18.6
	6H	17.3	17.7	17.8	18.2	18.7	17.3	17.7	17.8	18.2	18.7
	8H	17.3	17.7	17.8	18.2	18.7	17.3	17.7	17.8	18.2	18.7
	12H	17.3	17.6	17.8	18.1	18.7	17.3	17.6	17.8	18.1	18.7
12H	4H	17.1	17.5	17.6	18.0	18.5	17.1	17.5	17.6	18.0	18.5
	6H	17.2	17.6	17.8	18.1	18.6	17.2	17.6	17.8	18.1	18.6
	8H	17.3	17.6	17.8	18.1	18.7	17.3	17.6	17.8	18.1	18.7

Maximum UGR = 18.7

POLAR GRAPH



Maximum Candela = 434.894 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.)