

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L8-927-DIM-UNV-RW-OF-BL_.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-L8-927-DIM-UNV-RW-OF-BL_
[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	479
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	45
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	17176	17176	17176
55	13592	13592	13592
65	10160	10160	10160
75	5290	5290	5290
85	3206	3206	3206

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CANDELA TABULATION

	<u>0</u>
0.0	570.941
0.5	570.941
1.0	570.646
1.5	570.352
2.0	570.352
2.5	569.763
3.0	568.881
3.5	567.703
4.0	566.526
4.5	565.349
5.0	563.583
5.5	562.112
6.0	560.346
6.5	558.286
7.0	556.226
7.5	554.166
8.0	552.105
8.5	549.751
9.0	547.102
9.5	544.748
10.0	542.099
10.5	539.156
11.0	535.919
11.5	532.682
12.0	529.150
12.5	525.619
13.0	521.793
13.5	517.672
14.0	513.258
14.5	508.843
15.0	503.840
15.5	498.837
16.0	493.246
16.5	487.654
17.0	481.768
17.5	475.588
18.0	469.113
18.5	462.050
19.0	454.692
19.5	446.746
20.0	438.506
20.5	429.971
21.0	420.848
21.5	411.430
22.0	401.130
22.5	390.829
23.0	379.940
23.5	368.757
24.0	356.985
24.5	345.213
25.0	333.147
25.5	320.492
26.0	307.543
26.5	294.594

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CANDELA TABULATION - (Cont.)

27.0	281.733
27.5	268.813
28.0	255.776
28.5	242.797
29.0	229.524
29.5	216.163
30.0	202.919
30.5	189.882
31.0	177.021
31.5	164.602
32.0	152.653
32.5	141.352
33.0	130.875
33.5	121.163
34.0	112.128
34.5	103.858
35.0	96.354
35.5	89.467
36.0	83.228
36.5	77.636
37.0	72.662
37.5	68.219
38.0	64.187
38.5	60.596
39.0	57.447
39.5	54.681
40.0	52.209
40.5	50.060
41.0	48.147
41.5	46.440
42.0	44.910
42.5	43.556
43.0	42.320
43.5	41.231
44.0	40.201
44.5	39.260
45.0	38.377
45.5	37.523
46.0	36.729
46.5	35.934
47.0	35.198
47.5	34.462
48.0	33.727
48.5	33.020
49.0	32.314
49.5	31.608
50.0	30.931
50.5	30.283
51.0	29.607
51.5	28.959
52.0	28.341
52.5	27.694
53.0	27.076
53.5	26.458
54.0	25.839
54.5	25.221

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CANDELA TABULATION - (Cont.)

55.0	24.633
55.5	24.044
56.0	23.456
56.5	22.867
57.0	22.278
57.5	21.719
58.0	21.131
58.5	20.572
59.0	20.012
59.5	19.483
60.0	18.923
60.5	18.364
61.0	17.805
61.5	17.275
62.0	16.716
62.5	16.186
63.0	15.657
63.5	15.127
64.0	14.597
64.5	14.068
65.0	13.567
65.5	13.067
66.0	12.567
66.5	12.037
67.0	11.566
67.5	11.095
68.0	10.595
68.5	10.124
69.0	9.653
69.5	9.182
70.0	8.741
70.5	8.270
71.0	7.828
71.5	7.357
72.0	6.916
72.5	6.475
73.0	6.033
73.5	5.592
74.0	5.180
74.5	4.738
75.0	4.326
75.5	3.944
76.0	3.561
76.5	3.267
77.0	3.002
77.5	2.766
78.0	2.590
78.5	2.443
79.0	2.325
79.5	2.207
80.0	2.060
80.5	1.942
81.0	1.825
81.5	1.707
82.0	1.560
82.5	1.442

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CANDELA TABULATION - (Cont.)

83.0	1.354
83.5	1.236
84.0	1.118
84.5	1.001
85.0	0.883
85.5	0.795
86.0	0.677
86.5	0.589
87.0	0.471
87.5	0.383
88.0	0.294
88.5	0.206
89.0	0.118
89.5	0.088
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
123.5	0.000
124.0	0.000
124.5	0.000
125.0	0.000
125.5	0.000
126.0	0.000
126.5	0.000
127.0	0.000
127.5	0.000
128.0	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
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	193.11	N.A.	40.30
0-30	341.85	N.A.	71.40
0-40	407.30	N.A.	85.00
0-60	459.62	N.A.	95.90
0-80	478.06	N.A.	99.80
0-90	479.07	N.A.	100.00
10-90	425.97	N.A.	88.90
20-40	214.19	N.A.	44.70
20-50	244.43	N.A.	51.00
40-70	65.80	N.A.	13.70
60-80	18.44	N.A.	3.80
70-80	4.95	N.A.	1.00
80-90	1.02	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	479.07	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	53.11
10-20	140.00
20-30	148.74
30-40	65.45
40-50	30.24
50-60	22.08
60-70	13.48
70-80	4.95
80-90	1.02
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	62	57	54	53
10	71	61	55	52	70	61	55	51	60	55	51	59	55	51	59	54	51	50

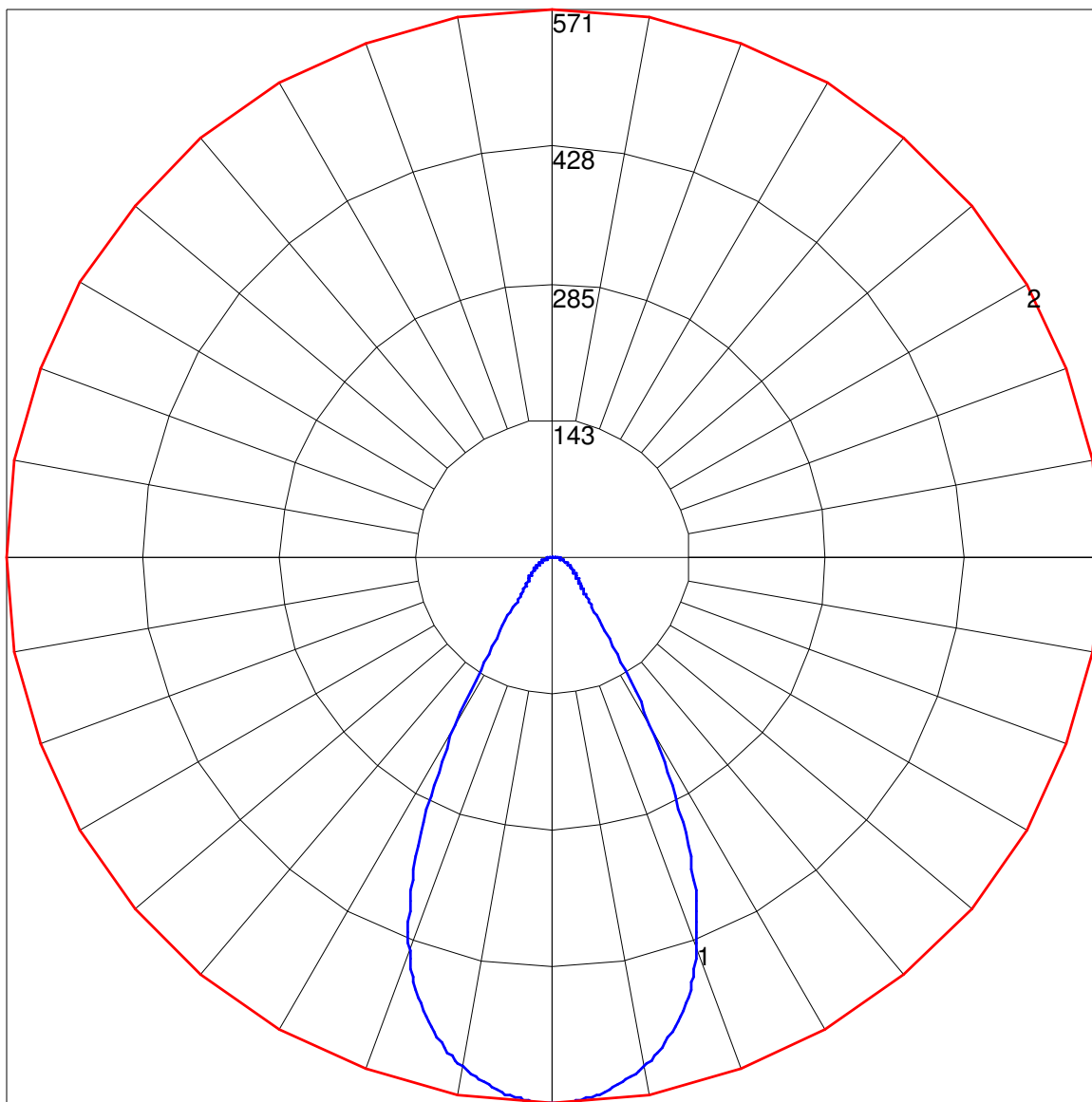
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UGR TABLE - CORRECTED

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	16.4	17.5	16.8	17.8	18.1	16.4	17.5	16.8	17.8	18.1
	3H	17.4	18.4	17.8	18.7	19.1	17.4	18.4	17.8	18.7	19.1
	4H	17.6	18.5	18.0	18.9	19.3	17.6	18.5	18.0	18.9	19.3
	6H	17.6	18.5	18.1	18.9	19.3	17.6	18.5	18.1	18.9	19.3
	8H	17.6	18.4	18.1	18.8	19.2	17.6	18.4	18.1	18.8	19.2
	12H	17.6	18.4	18.1	18.8	19.2	17.6	18.4	18.1	18.8	19.2
4H	2H	16.7	17.6	17.1	18.0	18.4	16.7	17.6	17.1	18.0	18.4
	3H	17.9	18.6	18.3	19.1	19.5	17.9	18.6	18.3	19.1	19.5
	4H	18.1	18.8	18.6	19.2	19.7	18.1	18.8	18.6	19.2	19.7
	6H	18.2	18.8	18.7	19.2	19.7	18.2	18.8	18.7	19.2	19.7
	8H	18.2	18.7	18.7	19.2	19.7	18.2	18.7	18.7	19.2	19.7
	12H	18.2	18.7	18.7	19.2	19.6	18.2	18.7	18.7	19.2	19.6
8H	4H	18.1	18.7	18.6	19.1	19.6	18.1	18.7	18.6	19.1	19.6
	6H	18.3	18.7	18.8	19.2	19.7	18.3	18.7	18.8	19.2	19.7
	8H	18.3	18.7	18.8	19.2	19.7	18.3	18.7	18.8	19.2	19.7
	12H	18.3	18.6	18.8	19.1	19.7	18.3	18.6	18.8	19.1	19.7
12H	4H	18.1	18.6	18.6	19.0	19.5	18.1	18.6	18.6	19.0	19.5
	6H	18.2	18.6	18.8	19.1	19.6	18.2	18.6	18.8	19.1	19.6
	8H	18.3	18.6	18.8	19.1	19.7	18.3	18.6	18.8	19.1	19.7

Maximum UGR = 19.7

POLAR GRAPH



Maximum Candela = 570.941 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.)