

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L5-935-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-L5-935-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 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	317
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	47
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	11379	11379	11379
55	9005	9005	9005
65	6731	6731	6731
75	3505	3505	3505
85	2124	2124	2124

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CANDELA TABULATION

	<u>0</u>
0.0	378.255
0.5	378.255
1.0	378.060
1.5	377.865
2.0	377.865
2.5	377.475
3.0	376.890
3.5	376.110
4.0	375.330
4.5	374.550
5.0	373.380
5.5	372.406
6.0	371.236
6.5	369.871
7.0	368.506
7.5	367.141
8.0	365.776
8.5	364.216
9.0	362.462
9.5	360.902
10.0	359.147
10.5	357.197
11.0	355.053
11.5	352.908
12.0	350.568
12.5	348.228
13.0	345.694
13.5	342.964
14.0	340.039
14.5	337.115
15.0	333.800
15.5	330.486
16.0	326.781
16.5	323.076
17.0	319.177
17.5	315.082
18.0	310.793
18.5	306.113
19.0	301.239
19.5	295.975
20.0	290.515
20.5	284.861
21.0	278.817
21.5	272.577
22.0	265.753
22.5	258.929
23.0	251.715
23.5	244.306
24.0	236.507
24.5	228.708
25.0	220.714
25.5	212.330
26.0	203.751
26.5	195.172

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CANDELA TABULATION - (Cont.)

27.0	186.651
27.5	178.092
28.0	169.454
28.5	160.856
29.0	152.062
29.5	143.210
30.0	134.436
30.5	125.799
31.0	117.278
31.5	109.050
32.0	101.134
32.5	93.647
33.0	86.706
33.5	80.272
34.0	74.286
34.5	68.807
35.0	63.835
35.5	59.273
36.0	55.139
36.5	51.435
37.0	48.140
37.5	45.196
38.0	42.524
38.5	40.146
39.0	38.059
39.5	36.227
40.0	34.589
40.5	33.166
41.0	31.898
41.5	30.767
42.0	29.753
42.5	28.857
43.0	28.038
43.5	27.316
44.0	26.634
44.5	26.010
45.0	25.425
45.5	24.860
46.0	24.333
46.5	23.807
47.0	23.319
47.5	22.832
48.0	22.344
48.5	21.876
49.0	21.408
49.5	20.940
50.0	20.492
50.5	20.063
51.0	19.615
51.5	19.186
52.0	18.776
52.5	18.347
53.0	17.938
53.5	17.528
54.0	17.119
54.5	16.710

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CANDELA TABULATION - (Cont.)

55.0	16.320
55.5	15.930
56.0	15.540
56.5	15.150
57.0	14.760
57.5	14.389
58.0	13.999
58.5	13.629
59.0	13.258
59.5	12.907
60.0	12.537
60.5	12.167
61.0	11.796
61.5	11.445
62.0	11.075
62.5	10.724
63.0	10.373
63.5	10.022
64.0	9.671
64.5	9.320
65.0	8.988
65.5	8.657
66.0	8.326
66.5	7.975
67.0	7.663
67.5	7.351
68.0	7.019
68.5	6.707
69.0	6.395
69.5	6.083
70.0	5.791
70.5	5.479
71.0	5.186
71.5	4.874
72.0	4.582
72.5	4.289
73.0	3.997
73.5	3.705
74.0	3.432
74.5	3.139
75.0	2.866
75.5	2.613
76.0	2.359
76.5	2.164
77.0	1.989
77.5	1.833
78.0	1.716
78.5	1.618
79.0	1.540
79.5	1.462
80.0	1.365
80.5	1.287
81.0	1.209
81.5	1.131
82.0	1.033
82.5	0.955

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CANDELA TABULATION - (Cont.)

83.0	0.897
83.5	0.819
84.0	0.741
84.5	0.663
85.0	0.585
85.5	0.526
86.0	0.448
86.5	0.390
87.0	0.312
87.5	0.253
88.0	0.195
88.5	0.136
89.0	0.078
89.5	0.058
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
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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
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	127.94	N.A.	40.30
0-30	226.48	N.A.	71.40
0-40	269.84	N.A.	85.00
0-60	304.50	N.A.	95.90
0-80	316.72	N.A.	99.80
0-90	317.39	N.A.	100.00
10-90	282.21	N.A.	88.90
20-40	141.90	N.A.	44.70
20-50	161.94	N.A.	51.00
40-70	43.59	N.A.	13.70
60-80	12.22	N.A.	3.90
70-80	3.28	N.A.	1.00
80-90	0.67	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	317.39	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	35.18
10-20	92.75
20-30	98.55
30-40	43.36
40-50	20.03
50-60	14.63
60-70	8.93
70-80	3.28
80-90	0.67
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	107	107	107	102	102	102	100
1	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	95	94	93
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	82	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	62	69	65	61	68	64	61	59
8	78	68	62	58	77	68	62	58	67	62	58	66	61	57	65	60	57	56
9	75	65	59	55	73	64	59	55	63	58	54	62	58	54	62	57	54	53
10	71	61	56	52	70	61	55	52	60	55	51	59	55	51	59	54	51	50

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UGR TABLE - CORRECTED

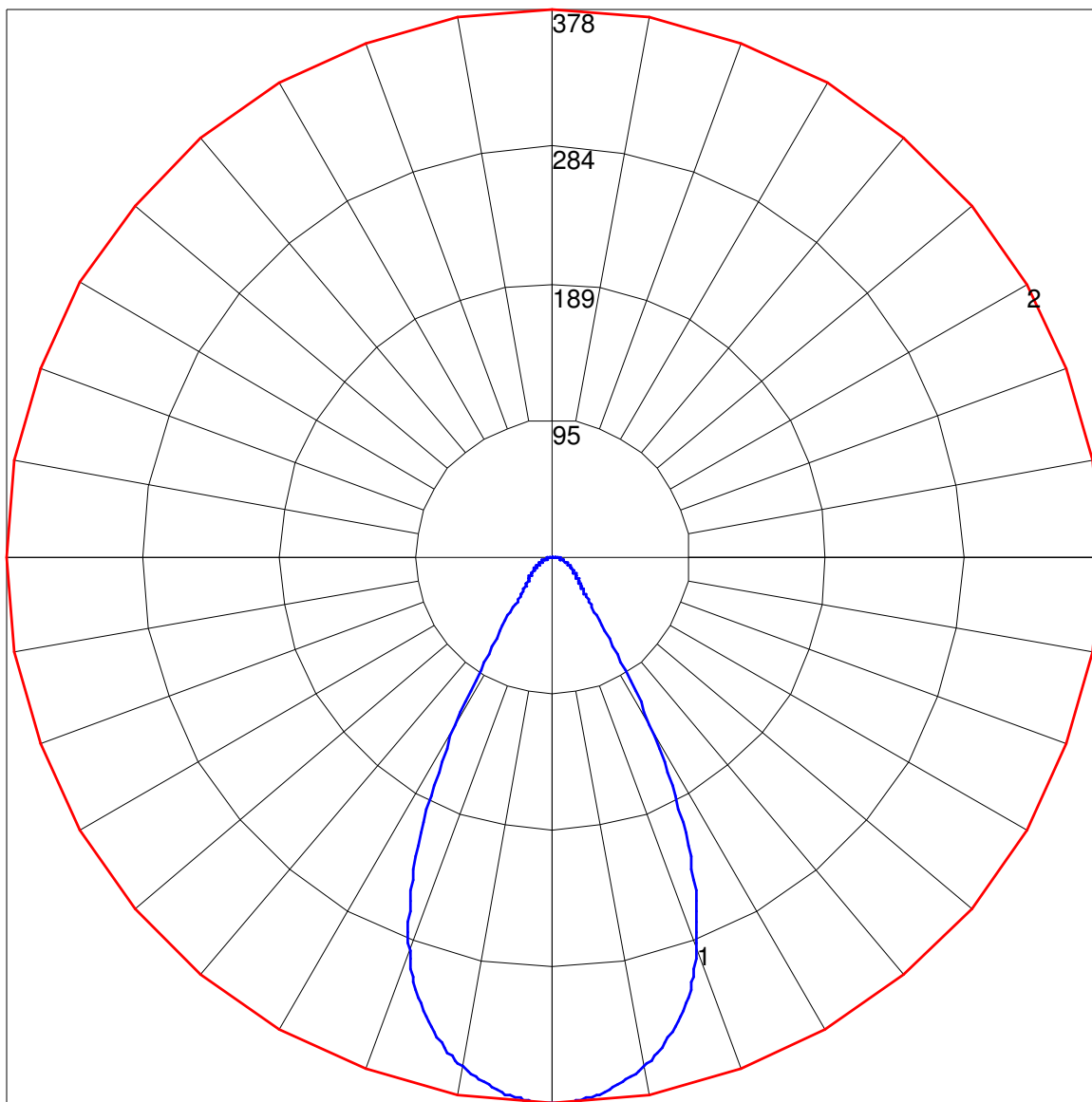
Reflectances

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	14.9	16.0	15.3	16.3	16.6	14.9	16.0	15.3	16.3	16.6
	3H	15.9	16.9	16.3	17.2	17.6	15.9	16.9	16.3	17.2	17.6
	4H	16.1	17.0	16.5	17.4	17.8	16.1	17.0	16.5	17.4	17.8
	6H	16.1	17.0	16.6	17.4	17.8	16.1	17.0	16.6	17.4	17.8
	8H	16.1	16.9	16.6	17.3	17.7	16.1	16.9	16.6	17.3	17.7
	12H	16.1	16.9	16.6	17.3	17.7	16.1	16.9	16.6	17.3	17.7
4H	2H	15.2	16.1	15.6	16.5	16.9	15.2	16.1	15.6	16.5	16.9
	3H	16.4	17.1	16.8	17.6	18.0	16.4	17.1	16.8	17.6	18.0
	4H	16.6	17.3	17.1	17.7	18.2	16.6	17.3	17.1	17.7	18.2
	6H	16.7	17.3	17.2	17.7	18.2	16.7	17.3	17.2	17.7	18.2
	8H	16.7	17.2	17.2	17.7	18.2	16.7	17.2	17.2	17.7	18.2
	12H	16.7	17.2	17.2	17.7	18.1	16.7	17.2	17.2	17.7	18.1
8H	4H	16.6	17.2	17.1	17.6	18.1	16.6	17.2	17.1	17.6	18.1
	6H	16.8	17.2	17.3	17.7	18.2	16.8	17.2	17.3	17.7	18.2
	8H	16.8	17.2	17.3	17.7	18.2	16.8	17.2	17.3	17.7	18.2
	12H	16.8	17.1	17.3	17.6	18.2	16.8	17.1	17.3	17.6	18.2
12H	4H	16.6	17.1	17.1	17.5	18.0	16.6	17.1	17.1	17.5	18.0
	6H	16.7	17.1	17.3	17.6	18.1	16.7	17.1	17.3	17.6	18.1
	8H	16.8	17.1	17.3	17.6	18.2	16.8	17.1	17.3	17.6	18.2

Maximum UGR = 18.2

POLAR GRAPH



Maximum Candela = 378.255 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.)