

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L5-930-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-L5-930-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	306
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	46
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	10963	10963	10963
55	8675	8675	8675
65	6485	6485	6485
75	3376	3376	3376
85	2048	2048	2048

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CANDELA TABULATION

	<u>0</u>
0.0	364.416
0.5	364.416
1.0	364.228
1.5	364.041
2.0	364.041
2.5	363.665
3.0	363.101
3.5	362.350
4.0	361.599
4.5	360.847
5.0	359.720
5.5	358.781
6.0	357.654
6.5	356.339
7.0	355.024
7.5	353.709
8.0	352.394
8.5	350.891
9.0	349.201
9.5	347.698
10.0	346.008
10.5	344.129
11.0	342.063
11.5	339.997
12.0	337.742
12.5	335.488
13.0	333.046
13.5	330.417
14.0	327.599
14.5	324.781
15.0	321.588
15.5	318.395
16.0	314.826
16.5	311.257
17.0	307.500
17.5	303.555
18.0	299.422
18.5	294.914
19.0	290.218
19.5	285.146
20.0	279.887
20.5	274.439
21.0	268.616
21.5	262.605
22.0	256.031
22.5	249.456
23.0	242.506
23.5	235.368
24.0	227.854
24.5	220.340
25.0	212.639
25.5	204.561
26.0	196.296
26.5	188.031

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**CANDELA TABULATION - (Cont.)**

27.0	179.822
27.5	171.576
28.0	163.255
28.5	154.971
29.0	146.499
29.5	137.971
30.0	129.518
30.5	121.197
31.0	112.988
31.5	105.061
32.0	97.434
32.5	90.221
33.0	83.534
33.5	77.335
34.0	71.568
34.5	66.290
35.0	61.500
35.5	57.104
36.0	53.122
36.5	49.553
37.0	46.379
37.5	43.542
38.0	40.969
38.5	38.677
39.0	36.667
39.5	34.901
40.0	33.323
40.5	31.952
41.0	30.731
41.5	29.642
42.0	28.665
42.5	27.801
43.0	27.012
43.5	26.317
44.0	25.659
44.5	25.058
45.0	24.495
45.5	23.950
46.0	23.443
46.5	22.936
47.0	22.466
47.5	21.996
48.0	21.527
48.5	21.076
49.0	20.625
49.5	20.174
50.0	19.742
50.5	19.329
51.0	18.897
51.5	18.484
52.0	18.089
52.5	17.676
53.0	17.282
53.5	16.887
54.0	16.493
54.5	16.098

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CANDELA TABULATION - (Cont.)

55.0	15.722
55.5	15.347
56.0	14.971
56.5	14.595
57.0	14.220
57.5	13.863
58.0	13.487
58.5	13.130
59.0	12.773
59.5	12.435
60.0	12.078
60.5	11.721
61.0	11.365
61.5	11.026
62.0	10.670
62.5	10.331
63.0	9.993
63.5	9.655
64.0	9.317
64.5	8.979
65.0	8.660
65.5	8.340
66.0	8.021
66.5	7.683
67.0	7.382
67.5	7.082
68.0	6.762
68.5	6.462
69.0	6.161
69.5	5.861
70.0	5.579
70.5	5.278
71.0	4.997
71.5	4.696
72.0	4.414
72.5	4.133
73.0	3.851
73.5	3.569
74.0	3.306
74.5	3.024
75.0	2.761
75.5	2.517
76.0	2.273
76.5	2.085
77.0	1.916
77.5	1.766
78.0	1.653
78.5	1.559
79.0	1.484
79.5	1.409
80.0	1.315
80.5	1.240
81.0	1.165
81.5	1.089
82.0	0.996
82.5	0.920

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CANDELA TABULATION - (Cont.)

83.0	0.864
83.5	0.789
84.0	0.714
84.5	0.639
85.0	0.564
85.5	0.507
86.0	0.432
86.5	0.376
87.0	0.301
87.5	0.244
88.0	0.188
88.5	0.131
89.0	0.075
89.5	0.056
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
128.5	0.000
129.0	0.000
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130.0	0.000
130.5	0.000
131.0	0.000
131.5	0.000
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132.5	0.000
133.0	0.000
133.5	0.000
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
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	123.26	N.A.	40.30
0-30	218.20	N.A.	71.40
0-40	259.97	N.A.	85.00
0-60	293.36	N.A.	95.90
0-80	305.13	N.A.	99.80
0-90	305.78	N.A.	100.00
10-90	271.88	N.A.	88.90
20-40	136.71	N.A.	44.70
20-50	156.01	N.A.	51.00
40-70	42.00	N.A.	13.70
60-80	11.77	N.A.	3.80
70-80	3.16	N.A.	1.00
80-90	0.65	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	305.78	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	33.90
10-20	89.36
20-30	94.94
30-40	41.77
40-50	19.30
50-60	14.09
60-70	8.61
70-80	3.16
80-90	0.65
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	96	95	94	92
2	107	102	97	94	105	100	96	93	97	93	90	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	78
4	96	88	82	77	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	70	78	73	70	76	72	69	68
6	86	77	71	66	85	76	70	66	75	69	66	73	69	65	72	68	65	63
7	82	72	66	62	81	72	66	62	70	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	74	65	59	55	73	64	58	54	63	58	54	62	58	54	61	57	54	53
10	71	61	55	52	70	61	55	51	60	55	51	59	54	51	59	54	51	50

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**UGR TABLE - CORRECTED**

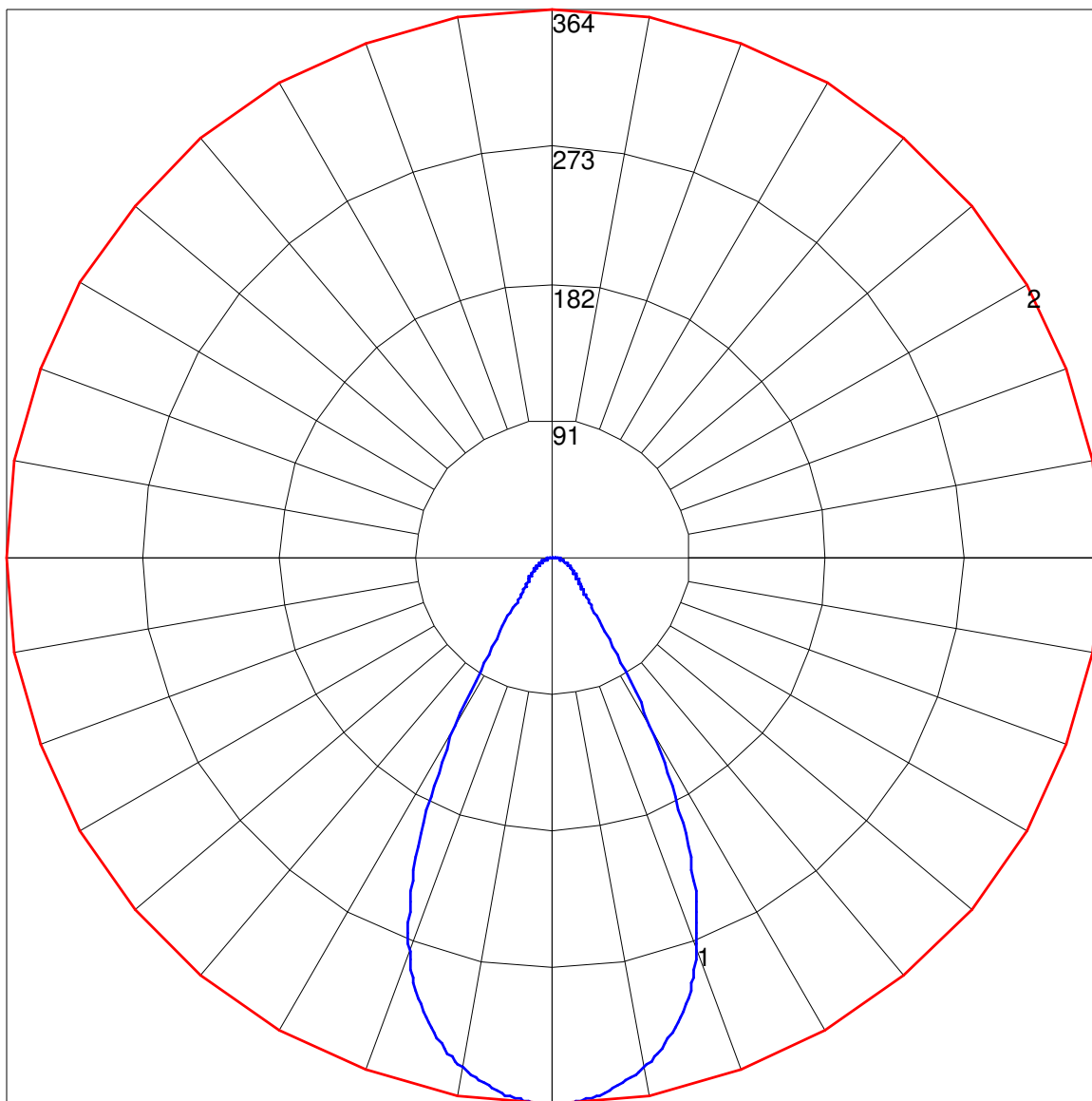
Reflectances

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	14.8	15.9	15.2	16.2	16.5	14.8	15.9	15.2	16.2	16.5
	3H	15.8	16.8	16.2	17.1	17.5	15.8	16.8	16.2	17.1	17.5
	4H	16.0	16.9	16.4	17.3	17.7	16.0	16.9	16.4	17.3	17.7
	6H	16.1	16.9	16.5	17.3	17.7	16.1	16.9	16.5	17.3	17.7
	8H	16.1	16.8	16.5	17.2	17.6	16.1	16.8	16.5	17.2	17.6
	12H	16.0	16.8	16.5	17.2	17.6	16.0	16.8	16.5	17.2	17.6
4H	2H	15.1	16.0	15.5	16.4	16.8	15.1	16.0	15.5	16.4	16.8
	3H	16.3	17.1	16.7	17.5	17.9	16.3	17.1	16.7	17.5	17.9
	4H	16.5	17.2	17.0	17.6	18.1	16.5	17.2	17.0	17.6	18.1
	6H	16.6	17.2	17.1	17.6	18.1	16.6	17.2	17.1	17.6	18.1
	8H	16.6	17.2	17.1	17.6	18.1	16.6	17.2	17.1	17.6	18.1
	12H	16.6	17.1	17.1	17.6	18.0	16.6	17.1	17.1	17.6	18.0
8H	4H	16.5	17.1	17.0	17.5	18.0	16.5	17.1	17.0	17.5	18.0
	6H	16.7	17.1	17.2	17.6	18.1	16.7	17.1	17.2	17.6	18.1
	8H	16.7	17.1	17.2	17.6	18.1	16.7	17.1	17.2	17.6	18.1
	12H	16.7	17.1	17.2	17.6	18.1	16.7	17.1	17.2	17.6	18.1
12H	4H	16.5	17.0	17.0	17.4	17.9	16.5	17.0	17.0	17.4	17.9
	6H	16.6	17.0	17.2	17.5	18.0	16.6	17.0	17.2	17.5	18.0
	8H	16.7	17.0	17.2	17.5	18.1	16.7	17.0	17.2	17.5	18.1

Maximum UGR = 18.1

POLAR GRAPH



Maximum Candela = 364.416 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.)