

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L8-935-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-L8-935-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 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	641
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	60
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	22989	22989	22989
55	18192	18192	18192
65	13598	13598	13598
75	7080	7080	7080
85	4292	4292	4292

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CANDELA TABULATION

	<u>0</u>
0.0	764.170
0.5	764.170
1.0	763.776
1.5	763.382
2.0	763.382
2.5	762.595
3.0	761.413
3.5	759.837
4.0	758.262
4.5	756.686
5.0	754.323
5.5	752.353
6.0	749.990
6.5	747.232
7.0	744.475
7.5	741.718
8.0	738.961
8.5	735.809
9.0	732.264
9.5	729.113
10.0	725.568
10.5	721.629
11.0	717.296
11.5	712.963
12.0	708.236
12.5	703.509
13.0	698.389
13.5	692.874
14.0	686.965
14.5	681.057
15.0	674.361
15.5	667.664
16.0	660.180
16.5	652.696
17.0	644.818
17.5	636.546
18.0	627.880
18.5	618.426
19.0	608.579
19.5	597.944
20.0	586.914
20.5	575.491
21.0	563.280
21.5	550.675
22.0	536.889
22.5	523.102
23.0	508.528
23.5	493.559
24.0	477.803
24.5	462.047
25.0	445.897
25.5	428.960
26.0	411.628
26.5	394.296

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CANDELA TABULATION - (Cont.)

27.0	377.083
27.5	359.790
28.0	342.340
28.5	324.969
29.0	307.204
29.5	289.321
30.0	271.596
30.5	254.146
31.0	236.932
31.5	220.310
32.0	204.317
32.5	189.191
33.0	175.168
33.5	162.170
34.0	150.077
34.5	139.008
35.0	128.964
35.5	119.746
36.0	111.396
36.5	103.911
37.0	97.254
37.5	91.307
38.0	85.910
38.5	81.104
39.0	76.890
39.5	73.187
40.0	69.878
40.5	67.003
41.0	64.442
41.5	62.158
42.0	60.109
42.5	58.298
43.0	56.643
43.5	55.186
44.0	53.807
44.5	52.547
45.0	51.365
45.5	50.223
46.0	49.159
46.5	48.095
47.0	47.111
47.5	46.126
48.0	45.141
48.5	44.196
49.0	43.250
49.5	42.305
50.0	41.399
50.5	40.533
51.0	39.627
51.5	38.760
52.0	37.933
52.5	37.066
53.0	36.239
53.5	35.412
54.0	34.585
54.5	33.757

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CANDELA TABULATION - (Cont.)

55.0	32.970
55.5	32.182
56.0	31.394
56.5	30.606
57.0	29.818
57.5	29.070
58.0	28.282
58.5	27.534
59.0	26.785
59.5	26.076
60.0	25.328
60.5	24.579
61.0	23.831
61.5	23.122
62.0	22.374
62.5	21.665
63.0	20.956
63.5	20.247
64.0	19.538
64.5	18.829
65.0	18.159
65.5	17.489
66.0	16.820
66.5	16.111
67.0	15.480
67.5	14.850
68.0	14.180
68.5	13.550
69.0	12.920
69.5	12.290
70.0	11.699
70.5	11.069
71.0	10.478
71.5	9.848
72.0	9.257
72.5	8.666
73.0	8.075
73.5	7.484
74.0	6.933
74.5	6.342
75.0	5.790
75.5	5.278
76.0	4.766
76.5	4.372
77.0	4.018
77.5	3.703
78.0	3.466
78.5	3.269
79.0	3.112
79.5	2.954
80.0	2.757
80.5	2.600
81.0	2.442
81.5	2.285
82.0	2.088
82.5	1.930

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CANDELA TABULATION - (Cont.)

83.0	1.812
83.5	1.654
84.0	1.497
84.5	1.339
85.0	1.182
85.5	1.064
86.0	0.906
86.5	0.788
87.0	0.630
87.5	0.512
88.0	0.394
88.5	0.276
89.0	0.158
89.5	0.118
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
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121.0	0.000
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122.0	0.000
122.5	0.000
123.0	0.000
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124.5	0.000
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126.0	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
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145.5	0.000
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156.0	0.000
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158.0	0.000
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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	258.47	N.A.	40.30
0-30	457.55	N.A.	71.40
0-40	545.15	N.A.	85.00
0-60	615.17	N.A.	95.90
0-80	639.85	N.A.	99.80
0-90	641.21	N.A.	100.00
10-90	570.13	N.A.	88.90
20-40	286.68	N.A.	44.70
20-50	327.15	N.A.	51.00
40-70	88.07	N.A.	13.70
60-80	24.68	N.A.	3.80
70-80	6.63	N.A.	1.00
80-90	1.36	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	641.21	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	71.08
10-20	187.39
20-30	199.09
30-40	87.60
40-50	40.47
50-60	29.55
60-70	18.05
70-80	6.63
80-90	1.36
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	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	79	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

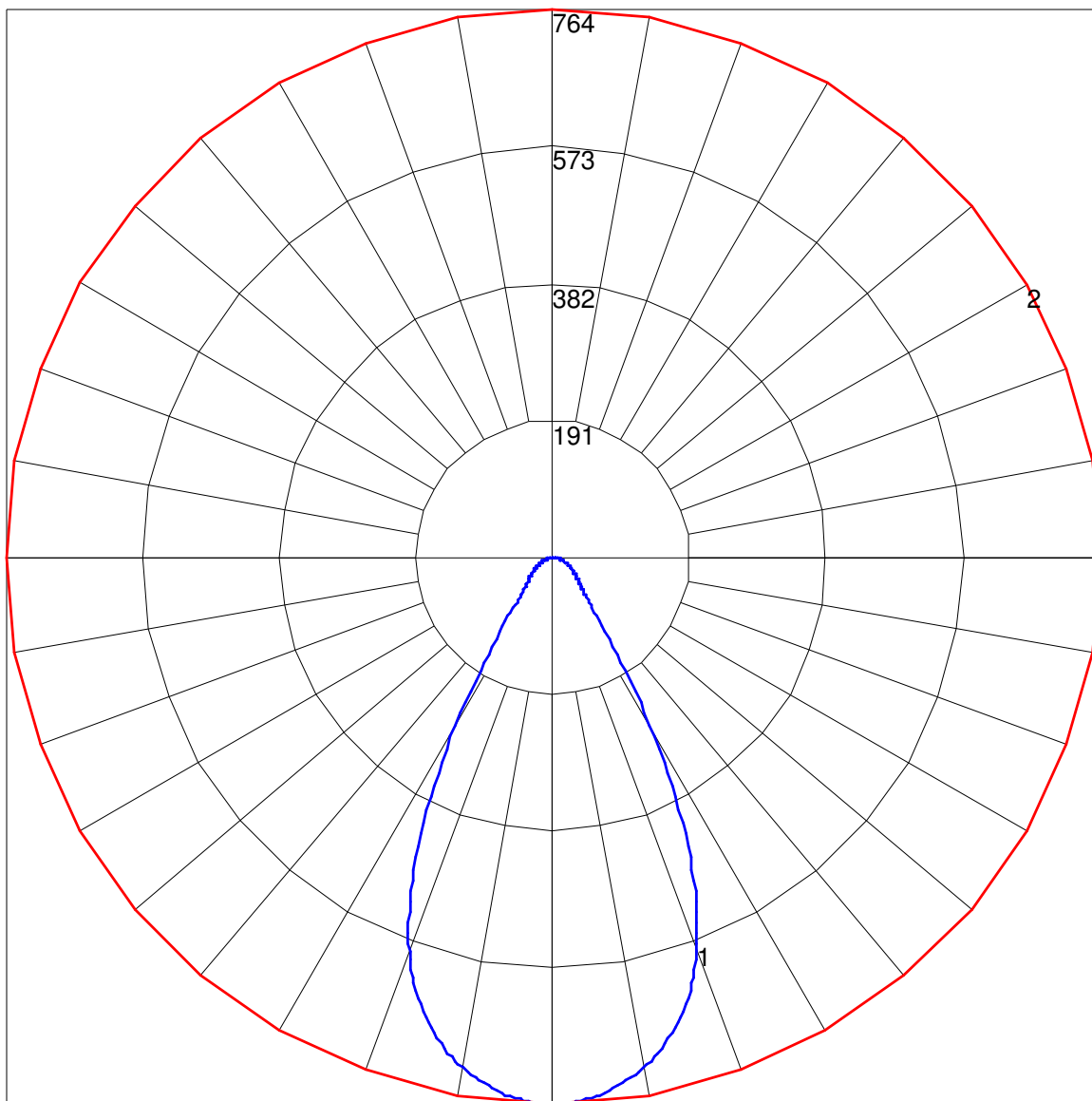
Reflectances

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	17.4	18.5	17.8	18.8	19.1	17.4	18.5	17.8	18.8	19.1
	3H	18.4	19.4	18.8	19.7	20.1	18.4	19.4	18.8	19.7	20.1
	4H	18.6	19.5	19.0	19.9	20.3	18.6	19.5	19.0	19.9	20.3
	6H	18.6	19.5	19.1	19.9	20.2	18.6	19.5	19.1	19.9	20.2
	8H	18.6	19.4	19.1	19.8	20.2	18.6	19.4	19.1	19.8	20.2
	12H	18.6	19.4	19.1	19.8	20.2	18.6	19.4	19.1	19.8	20.2
4H	2H	17.7	18.6	18.1	19.0	19.4	17.7	18.6	18.1	19.0	19.4
	3H	18.9	19.6	19.3	20.1	20.5	18.9	19.6	19.3	20.1	20.5
	4H	19.1	19.8	19.6	20.2	20.7	19.1	19.8	19.6	20.2	20.7
	6H	19.2	19.8	19.7	20.2	20.7	19.2	19.8	19.7	20.2	20.7
	8H	19.2	19.7	19.7	20.2	20.7	19.2	19.7	19.7	20.2	20.7
	12H	19.2	19.7	19.7	20.2	20.6	19.2	19.7	19.7	20.2	20.6
8H	4H	19.1	19.7	19.6	20.1	20.6	19.1	19.7	19.6	20.1	20.6
	6H	19.3	19.7	19.8	20.2	20.7	19.3	19.7	19.8	20.2	20.7
	8H	19.3	19.7	19.8	20.2	20.7	19.3	19.7	19.8	20.2	20.7
	12H	19.3	19.6	19.8	20.1	20.7	19.3	19.6	19.8	20.1	20.7
12H	4H	19.1	19.5	19.6	20.0	20.5	19.1	19.5	19.6	20.0	20.5
	6H	19.2	19.6	19.8	20.1	20.6	19.2	19.6	19.8	20.1	20.6
	8H	19.3	19.6	19.8	20.1	20.7	19.3	19.6	19.8	20.1	20.7

Maximum UGR = 20.7

POLAR GRAPH



Maximum Candela = 764.17 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.)