

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L8-935-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.
[ISSUE DATE] 2025-05-20
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] V2DR-L8-935-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	517
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	48
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	18532	18532	18532
55	14665	14665	14665
65	10962	10962	10962
75	5708	5708	5708
85	3461	3461	3461

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CANDELA TABULATION

	<u>0</u>
0.0	616.015
0.5	616.015
1.0	615.697
1.5	615.380
2.0	615.380
2.5	614.745
3.0	613.792
3.5	612.522
4.0	611.252
4.5	609.982
5.0	608.076
5.5	606.489
6.0	604.584
6.5	602.361
7.0	600.138
7.5	597.915
8.0	595.693
8.5	593.152
9.0	590.295
9.5	587.754
10.0	584.897
10.5	581.721
11.0	578.228
11.5	574.735
12.0	570.925
12.5	567.115
13.0	562.987
13.5	558.541
14.0	553.778
14.5	549.015
15.0	543.617
15.5	538.219
16.0	532.186
16.5	526.153
17.0	519.802
17.5	513.134
18.0	506.148
18.5	498.527
19.0	490.589
19.5	482.016
20.0	473.125
20.5	463.916
21.0	454.073
21.5	443.912
22.0	432.798
22.5	421.684
23.0	409.936
23.5	397.869
24.0	385.168
24.5	372.467
25.0	359.448
25.5	345.794
26.0	331.822
26.5	317.851

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CANDELA TABULATION - (Cont.)

27.0	303.975
27.5	290.035
28.0	275.968
28.5	261.965
29.0	247.644
29.5	233.228
30.0	218.939
30.5	204.873
31.0	190.996
31.5	177.596
32.0	164.705
32.5	152.511
33.0	141.207
33.5	130.729
34.0	120.980
34.5	112.058
35.0	103.960
35.5	96.530
36.0	89.798
36.5	83.765
37.0	78.399
37.5	73.604
38.0	69.254
38.5	65.380
39.0	61.983
39.5	58.998
40.0	56.330
40.5	54.012
41.0	51.948
41.5	50.107
42.0	48.456
42.5	46.995
43.0	45.661
43.5	44.486
44.0	43.375
44.5	42.359
45.0	41.406
45.5	40.486
46.0	39.628
46.5	38.771
47.0	37.977
47.5	37.183
48.0	36.389
48.5	35.627
49.0	34.865
49.5	34.103
50.0	33.373
50.5	32.674
51.0	31.944
51.5	31.245
52.0	30.578
52.5	29.880
53.0	29.213
53.5	28.546
54.0	27.879
54.5	27.213

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CANDELA TABULATION - (Cont.)

55.0	26.578
55.5	25.942
56.0	25.307
56.5	24.672
57.0	24.037
57.5	23.434
58.0	22.799
58.5	22.196
59.0	21.592
59.5	21.021
60.0	20.417
60.5	19.814
61.0	19.211
61.5	18.639
62.0	18.036
62.5	17.464
63.0	16.893
63.5	16.321
64.0	15.750
64.5	15.178
65.0	14.638
65.5	14.098
66.0	13.559
66.5	12.987
67.0	12.479
67.5	11.971
68.0	11.431
68.5	10.923
69.0	10.415
69.5	9.907
70.0	9.431
70.5	8.923
71.0	8.446
71.5	7.938
72.0	7.462
72.5	6.986
73.0	6.509
73.5	6.033
74.0	5.589
74.5	5.112
75.0	4.668
75.5	4.255
76.0	3.842
76.5	3.525
77.0	3.239
77.5	2.985
78.0	2.794
78.5	2.636
79.0	2.509
79.5	2.382
80.0	2.223
80.5	2.096
81.0	1.969
81.5	1.842
82.0	1.683
82.5	1.556

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CANDELA TABULATION - (Cont.)

83.0	1.461
83.5	1.334
84.0	1.207
84.5	1.080
85.0	0.953
85.5	0.857
86.0	0.730
86.5	0.635
87.0	0.508
87.5	0.413
88.0	0.318
88.5	0.222
89.0	0.127
89.5	0.095
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
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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
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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
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159.5	0.000
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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	208.36	N.A.	40.30
0-30	368.84	N.A.	71.40
0-40	439.46	N.A.	85.00
0-60	495.90	N.A.	95.90
0-80	515.80	N.A.	99.80
0-90	516.90	N.A.	100.00
10-90	459.60	N.A.	88.90
20-40	231.10	N.A.	44.70
20-50	263.73	N.A.	51.00
40-70	70.99	N.A.	13.70
60-80	19.90	N.A.	3.80
70-80	5.35	N.A.	1.00
80-90	1.10	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	516.90	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	57.30
10-20	151.06
20-30	160.49
30-40	70.61
40-50	32.62
50-60	23.82
60-70	14.55
70-80	5.35
80-90	1.10
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	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	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

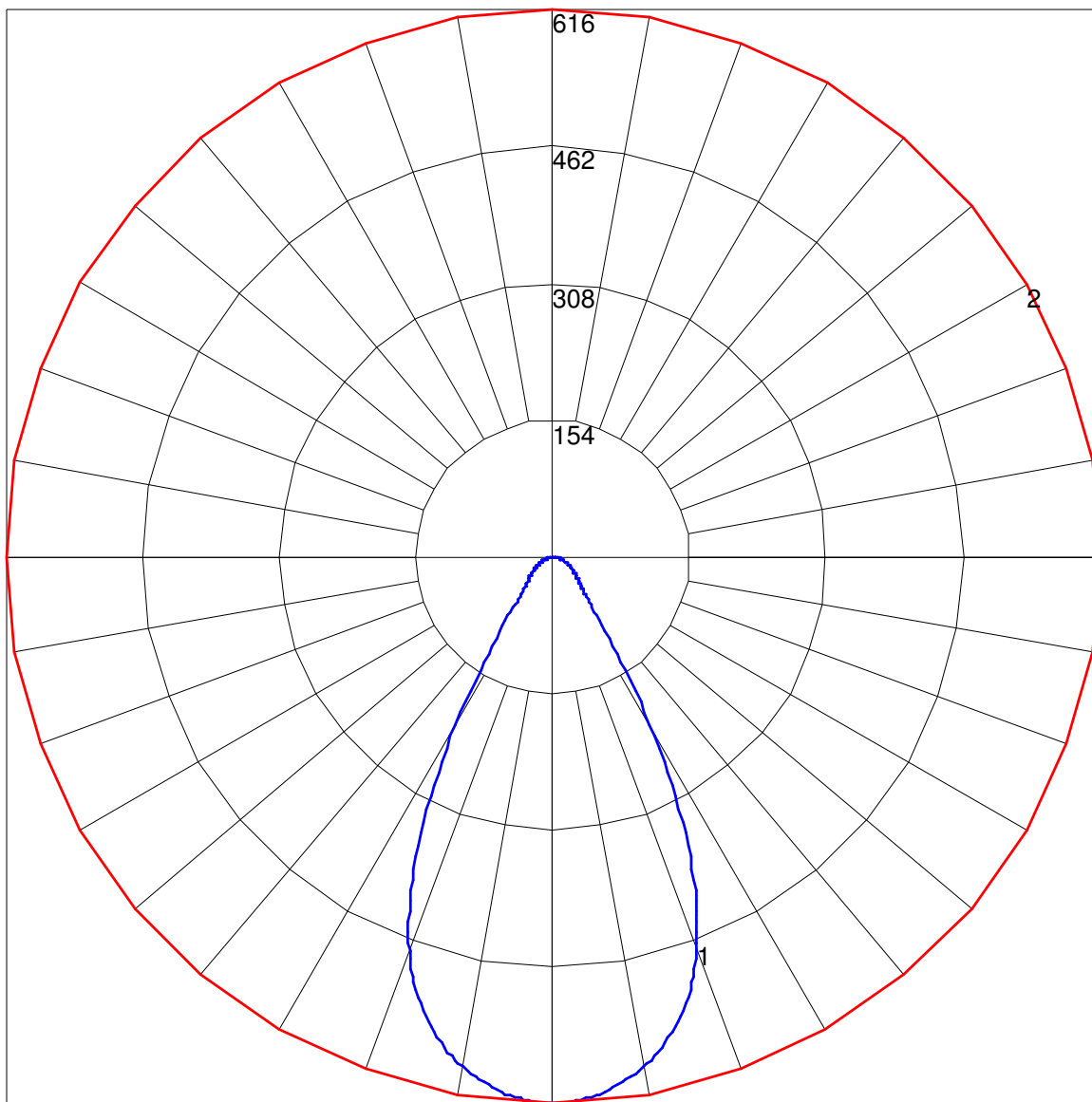
Reflectances

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	16.6	17.7	17.0	18.0	18.3	16.6	17.7	17.0	18.0	18.3
	3H	17.6	18.6	18.0	18.9	19.3	17.6	18.6	18.0	18.9	19.3
	4H	17.8	18.7	18.2	19.1	19.5	17.8	18.7	18.2	19.1	19.5
	6H	17.9	18.7	18.3	19.1	19.5	17.9	18.7	18.3	19.1	19.5
	8H	17.9	18.6	18.3	19.0	19.4	17.9	18.6	18.3	19.0	19.4
	12H	17.8	18.6	18.3	19.0	19.4	17.8	18.6	18.3	19.0	19.4
4H	2H	16.9	17.8	17.3	18.2	18.6	16.9	17.8	17.3	18.2	18.6
	3H	18.1	18.9	18.5	19.3	19.7	18.1	18.9	18.5	19.3	19.7
	4H	18.3	19.0	18.8	19.4	19.9	18.3	19.0	18.8	19.4	19.9
	6H	18.4	19.0	18.9	19.4	19.9	18.4	19.0	18.9	19.4	19.9
	8H	18.4	18.9	18.9	19.4	19.9	18.4	18.9	18.9	19.4	19.9
	12H	18.4	18.9	18.9	19.4	19.8	18.4	18.9	18.9	19.4	19.8
8H	4H	18.3	18.9	18.8	19.3	19.8	18.3	18.9	18.8	19.3	19.8
	6H	18.5	18.9	19.0	19.4	19.9	18.5	18.9	19.0	19.4	19.9
	8H	18.5	18.9	19.0	19.4	19.9	18.5	18.9	19.0	19.4	19.9
	12H	18.5	18.9	19.0	19.3	19.9	18.5	18.9	19.0	19.3	19.9
12H	4H	18.3	18.8	18.8	19.2	19.7	18.3	18.8	18.8	19.2	19.7
	6H	18.4	18.8	19.0	19.3	19.8	18.4	18.8	19.0	19.3	19.8
	8H	18.5	18.8	19.0	19.3	19.9	18.5	18.8	19.0	19.3	19.9

Maximum UGR = 19.9

POLAR GRAPH



Maximum Candela = 616.015 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.)