

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L8-940-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-L8-940-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	530
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	49
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	18984	18984	18984
55	15022	15022	15022
65	11229	11229	11229
75	5847	5847	5847
85	3544	3544	3544

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CANDELA TABULATION

	<u>0</u>
0.0	631.040
0.5	631.040
1.0	630.714
1.5	630.389
2.0	630.389
2.5	629.738
3.0	628.763
3.5	627.461
4.0	626.160
4.5	624.859
5.0	622.908
5.5	621.281
6.0	619.330
6.5	617.053
7.0	614.776
7.5	612.499
8.0	610.222
8.5	607.619
9.0	604.692
9.5	602.090
10.0	599.162
10.5	595.909
11.0	592.331
11.5	588.753
12.0	584.850
12.5	580.947
13.0	576.718
13.5	572.164
14.0	567.285
14.5	562.406
15.0	556.876
15.5	551.346
16.0	545.166
16.5	538.986
17.0	532.480
17.5	525.649
18.0	518.493
18.5	510.687
19.0	502.555
19.5	493.772
20.0	484.664
20.5	475.231
21.0	465.148
21.5	454.739
22.0	443.354
22.5	431.969
23.0	419.934
23.5	407.573
24.0	394.562
24.5	381.551
25.0	368.215
25.5	354.228
26.0	339.916
26.5	325.603

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CANDELA TABULATION - (Cont.)

27.0	311.389
27.5	297.109
28.0	282.699
28.5	268.354
29.0	253.684
29.5	238.917
30.0	224.279
30.5	209.869
31.0	195.655
31.5	181.928
32.0	168.722
32.5	156.231
33.0	144.651
33.5	133.917
34.0	123.931
34.5	114.791
35.0	106.496
35.5	98.885
36.0	91.989
36.5	85.808
37.0	80.311
37.5	75.399
38.0	70.943
38.5	66.975
39.0	63.494
39.5	60.437
40.0	57.704
40.5	55.330
41.0	53.215
41.5	51.329
42.0	49.637
42.5	48.141
43.0	46.775
43.5	45.571
44.0	44.433
44.5	43.392
45.0	42.416
45.5	41.473
46.0	40.595
46.5	39.716
47.0	38.903
47.5	38.090
48.0	37.277
48.5	36.496
49.0	35.716
49.5	34.935
50.0	34.187
50.5	33.471
51.0	32.723
51.5	32.007
52.0	31.324
52.5	30.609
53.0	29.926
53.5	29.243
54.0	28.559
54.5	27.876

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CANDELA TABULATION - (Cont.)

55.0	27.226
55.5	26.575
56.0	25.925
56.5	25.274
57.0	24.624
57.5	24.006
58.0	23.355
58.5	22.737
59.0	22.119
59.5	21.533
60.0	20.915
60.5	20.297
61.0	19.679
61.5	19.094
62.0	18.476
62.5	17.890
63.0	17.305
63.5	16.719
64.0	16.134
64.5	15.548
65.0	14.995
65.5	14.442
66.0	13.889
66.5	13.304
67.0	12.783
67.5	12.263
68.0	11.710
68.5	11.190
69.0	10.669
69.5	10.149
70.0	9.661
70.5	9.140
71.0	8.652
71.5	8.132
72.0	7.644
72.5	7.156
73.0	6.668
73.5	6.180
74.0	5.725
74.5	5.237
75.0	4.782
75.5	4.359
76.0	3.936
76.5	3.611
77.0	3.318
77.5	3.058
78.0	2.862
78.5	2.700
79.0	2.570
79.5	2.440
80.0	2.277
80.5	2.147
81.0	2.017
81.5	1.887
82.0	1.724
82.5	1.594

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CANDELA TABULATION - (Cont.)

83.0	1.496
83.5	1.366
84.0	1.236
84.5	1.106
85.0	0.976
85.5	0.878
86.0	0.748
86.5	0.651
87.0	0.520
87.5	0.423
88.0	0.325
88.5	0.228
89.0	0.130
89.5	0.098
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
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125.5	0.000
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127.0	0.000
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128.5	0.000
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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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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	213.44	N.A.	40.30
0-30	377.84	N.A.	71.40
0-40	450.18	N.A.	85.00
0-60	508.00	N.A.	95.90
0-80	528.38	N.A.	99.80
0-90	529.50	N.A.	100.00
10-90	470.81	N.A.	88.90
20-40	236.74	N.A.	44.70
20-50	270.16	N.A.	51.00
40-70	72.72	N.A.	13.70
60-80	20.38	N.A.	3.80
70-80	5.48	N.A.	1.00
80-90	1.13	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	529.50	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	58.70
10-20	154.74
20-30	164.40
30-40	72.34
40-50	33.42
50-60	24.40
60-70	14.90
70-80	5.48
80-90	1.13
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	51	70	61	55	51	60	55	51	59	54	51	58	54	51	50

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UGR TABLE - CORRECTED

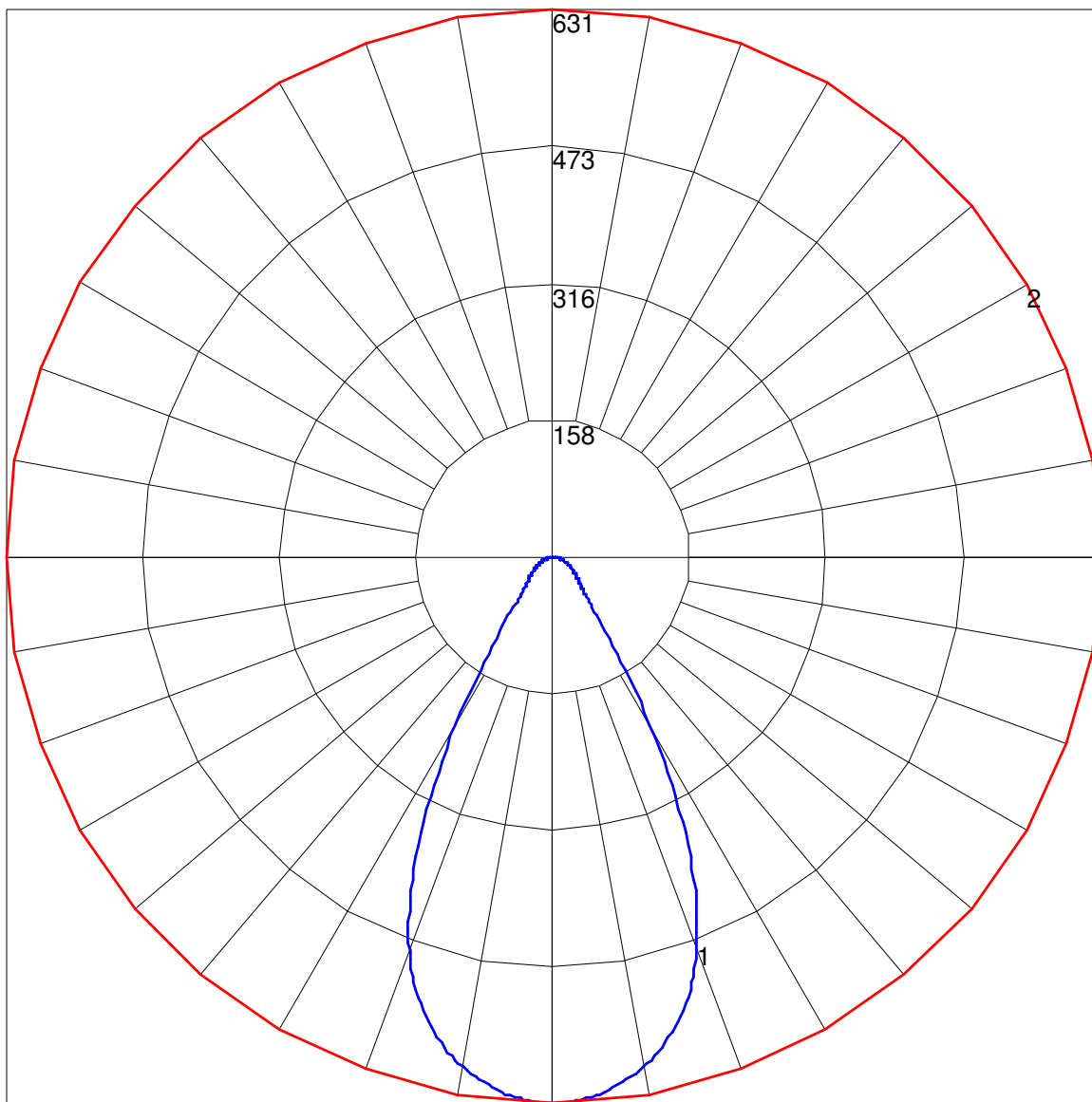
Reflectances

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	16.7	17.8	17.1	18.1	18.4	16.7	17.8	17.1	18.1	18.4
	3H	17.7	18.7	18.1	19.0	19.4	17.7	18.7	18.1	19.0	19.4
	4H	17.9	18.8	18.3	19.2	19.6	17.9	18.8	18.3	19.2	19.6
	6H	17.9	18.8	18.4	19.2	19.5	17.9	18.8	18.4	19.2	19.5
	8H	17.9	18.7	18.4	19.1	19.5	17.9	18.7	18.4	19.1	19.5
	12H	17.9	18.7	18.4	19.1	19.5	17.9	18.7	18.4	19.1	19.5
4H	2H	17.0	17.9	17.4	18.3	18.7	17.0	17.9	17.4	18.3	18.7
	3H	18.2	18.9	18.6	19.4	19.8	18.2	18.9	18.6	19.4	19.8
	4H	18.4	19.1	18.9	19.5	20.0	18.4	19.1	18.9	19.5	20.0
	6H	18.5	19.1	19.0	19.5	20.0	18.5	19.1	19.0	19.5	20.0
	8H	18.5	19.0	19.0	19.5	20.0	18.5	19.0	19.0	19.5	20.0
	12H	18.5	19.0	19.0	19.5	19.9	18.5	19.0	19.0	19.5	19.9
8H	4H	18.4	19.0	18.9	19.4	19.9	18.4	19.0	18.9	19.4	19.9
	6H	18.6	19.0	19.1	19.5	20.0	18.6	19.0	19.1	19.5	20.0
	8H	18.6	19.0	19.1	19.5	20.0	18.6	19.0	19.1	19.5	20.0
	12H	18.6	18.9	19.1	19.4	20.0	18.6	18.9	19.1	19.4	20.0
12H	4H	18.4	18.8	18.9	19.3	19.8	18.4	18.8	18.9	19.3	19.8
	6H	18.5	18.9	19.1	19.4	19.9	18.5	18.9	19.1	19.4	19.9
	8H	18.6	18.9	19.1	19.4	20.0	18.6	18.9	19.1	19.4	20.0

Maximum UGR = 20.0

POLAR GRAPH



Maximum Candela = 631.04 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.)