

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L14-930-DIM-UNV-RW-OF-WH_.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-L14-930-DIM-UNV-RW-OF-WH_
[LUMINAIRE] Aluminum housing, optics, and trim enclosure
[LAMP] One white LED
[OTHER] This test was performed using the calibrated photodetector met
[MORE] hod 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	1081
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	62
Total Luminaire Watts	17.3
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	38744	38744	38744
55	30658	30658	30658
65	22917	22917	22917
75	11932	11932	11932
85	7230	7230	7230

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CANDELA TABULATION

	<u>0</u>
0.0	1287.836
0.5	1287.836
1.0	1287.172
1.5	1286.508
2.0	1286.508
2.5	1285.181
3.0	1283.189
3.5	1280.534
4.0	1277.878
4.5	1275.223
5.0	1271.240
5.5	1267.921
6.0	1263.938
6.5	1259.291
7.0	1254.644
7.5	1249.997
8.0	1245.351
8.5	1240.040
9.0	1234.065
9.5	1228.755
10.0	1222.780
10.5	1216.142
11.0	1208.840
11.5	1201.538
12.0	1193.572
12.5	1185.606
13.0	1176.976
13.5	1167.682
14.0	1157.725
14.5	1147.767
15.0	1136.482
15.5	1125.197
16.0	1112.584
16.5	1099.971
17.0	1086.694
17.5	1072.754
18.0	1058.150
18.5	1042.218
19.0	1025.622
19.5	1007.698
20.0	989.111
20.5	969.860
21.0	949.281
21.5	928.038
22.0	904.804
22.5	881.570
23.0	857.008
23.5	831.783
24.0	805.229
24.5	778.676
25.0	751.459
25.5	722.914
26.0	693.705
26.5	664.497

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CANDELA TABULATION - (Cont.)

27.0	635.487
27.5	606.345
28.0	576.937
28.5	547.662
29.0	517.723
29.5	487.585
30.0	457.713
30.5	428.305
31.0	399.295
31.5	371.282
32.0	344.330
32.5	318.839
33.0	295.206
33.5	273.300
34.0	252.920
34.5	234.267
35.0	217.339
35.5	201.805
36.0	187.732
36.5	175.119
37.0	163.900
37.5	153.876
38.0	144.782
38.5	136.683
39.0	129.580
39.5	123.340
40.0	117.764
40.5	112.918
41.0	108.603
41.5	104.753
42.0	101.301
42.5	98.247
43.0	95.459
43.5	93.003
44.0	90.680
44.5	88.555
45.0	86.564
45.5	84.639
46.0	82.846
46.5	81.054
47.0	79.394
47.5	77.735
48.0	76.075
48.5	74.482
49.0	72.889
49.5	71.296
50.0	69.769
50.5	68.308
51.0	66.782
51.5	65.321
52.0	63.927
52.5	62.467
53.0	61.073
53.5	59.679
54.0	58.285
54.5	56.890

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CANDELA TABULATION - (Cont.)

55.0	55.563
55.5	54.235
56.0	52.907
56.5	51.580
57.0	50.252
57.5	48.991
58.0	47.663
58.5	46.402
59.0	45.141
59.5	43.946
60.0	42.684
60.5	41.423
61.0	40.162
61.5	38.967
62.0	37.706
62.5	36.511
63.0	35.316
63.5	34.121
64.0	32.926
64.5	31.731
65.0	30.603
65.5	29.474
66.0	28.346
66.5	27.151
67.0	26.089
67.5	25.027
68.0	23.898
68.5	22.836
69.0	21.774
69.5	20.712
70.0	19.716
70.5	18.654
71.0	17.658
71.5	16.596
72.0	15.600
72.5	14.604
73.0	13.609
73.5	12.613
74.0	11.683
74.5	10.688
75.0	9.758
75.5	8.895
76.0	8.032
76.5	7.369
77.0	6.771
77.5	6.240
78.0	5.842
78.5	5.510
79.0	5.244
79.5	4.979
80.0	4.647
80.5	4.381
81.0	4.116
81.5	3.850
82.0	3.518
82.5	3.253

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CANDELA TABULATION - (Cont.)

83.0	3.054
83.5	2.788
84.0	2.523
84.5	2.257
85.0	1.991
85.5	1.792
86.0	1.527
86.5	1.328
87.0	1.062
87.5	0.863
88.0	0.664
88.5	0.465
89.0	0.266
89.5	0.199
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
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129.0	0.000
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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
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145.5	0.000
146.0	0.000
146.5	0.000
147.0	0.000
147.5	0.000
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149.0	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
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155.0	0.000
155.5	0.000
156.0	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	435.59	N.A.	40.30
0-30	771.10	N.A.	71.40
0-40	918.73	N.A.	85.00
0-60	1036.73	N.A.	95.90
0-80	1078.32	N.A.	99.80
0-90	1080.62	N.A.	100.00
10-90	960.83	N.A.	88.90
20-40	483.14	N.A.	44.70
20-50	551.34	N.A.	51.00
40-70	148.42	N.A.	13.70
60-80	41.59	N.A.	3.80
70-80	11.18	N.A.	1.00
80-90	2.30	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	1080.62	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	119.79
10-20	315.80
20-30	335.51
30-40	147.63
40-50	68.20
50-60	49.80
60-70	30.42
70-80	11.18
80-90	2.30
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	78
4	96	88	82	78	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	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	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	75	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	55	51	59	54	51	50

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UGR TABLE - CORRECTED

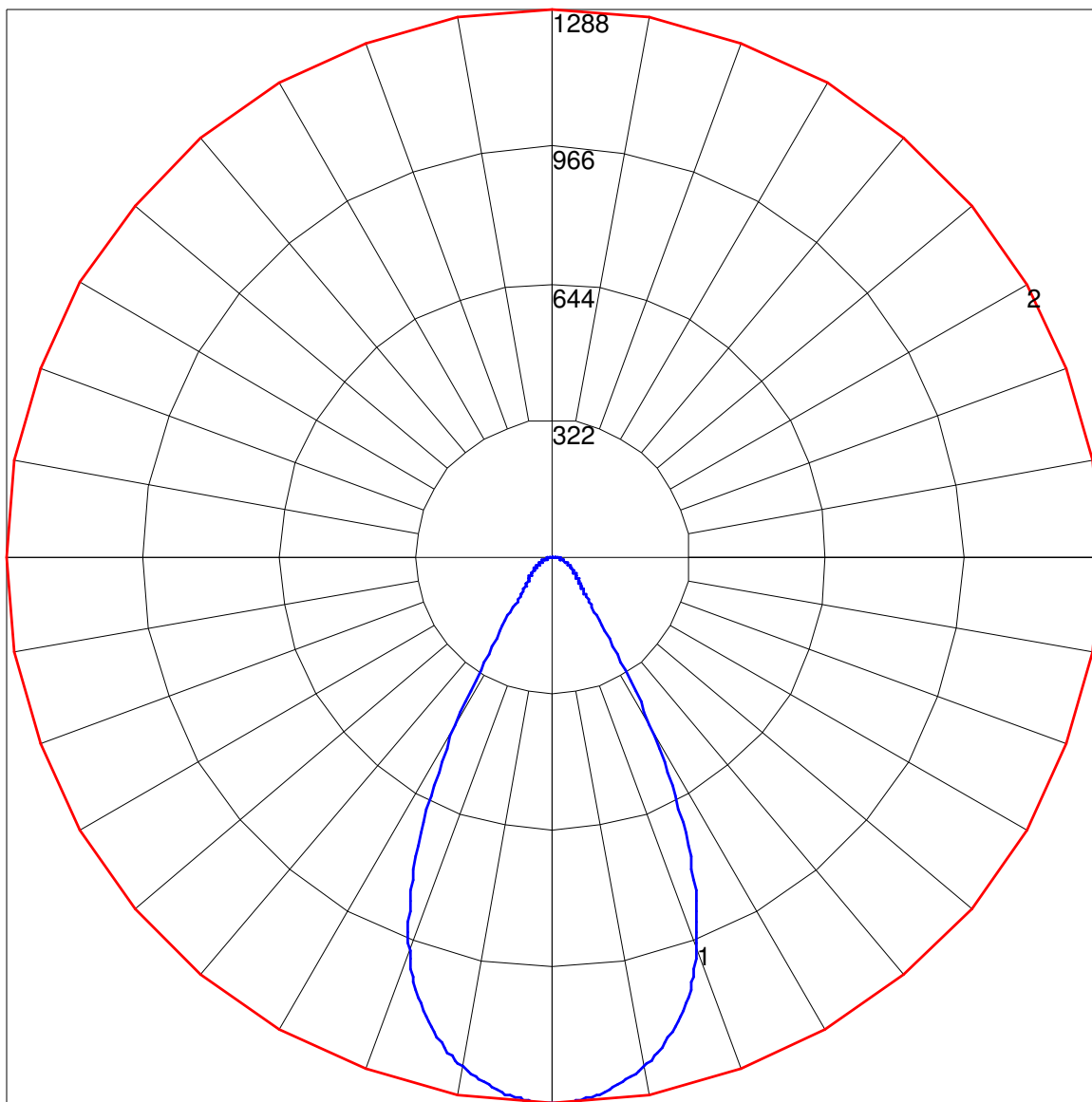
Reflectances

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	19.2	20.3	19.6	20.6	20.9	19.2	20.3	19.6	20.6	20.9
	3H	20.2	21.2	20.6	21.5	21.9	20.2	21.2	20.6	21.5	21.9
	4H	20.4	21.3	20.8	21.7	22.1	20.4	21.3	20.8	21.7	22.1
	6H	20.4	21.3	20.9	21.7	22.0	20.4	21.3	20.9	21.7	22.0
	8H	20.4	21.2	20.9	21.6	22.0	20.4	21.2	20.9	21.6	22.0
	12H	20.4	21.2	20.9	21.6	22.0	20.4	21.2	20.9	21.6	22.0
4H	2H	19.5	20.4	19.9	20.8	21.2	19.5	20.4	19.9	20.8	21.2
	3H	20.7	21.4	21.1	21.9	22.3	20.7	21.4	21.1	21.9	22.3
	4H	20.9	21.6	21.4	22.0	22.5	20.9	21.6	21.4	22.0	22.5
	6H	21.0	21.6	21.5	22.0	22.5	21.0	21.6	21.5	22.0	22.5
	8H	21.0	21.5	21.5	22.0	22.5	21.0	21.5	21.5	22.0	22.5
	12H	21.0	21.5	21.5	22.0	22.4	21.0	21.5	21.5	22.0	22.4
8H	4H	20.9	21.5	21.4	21.9	22.4	20.9	21.5	21.4	21.9	22.4
	6H	21.1	21.5	21.6	22.0	22.5	21.1	21.5	21.6	22.0	22.5
	8H	21.1	21.5	21.6	22.0	22.5	21.1	21.5	21.6	22.0	22.5
	12H	21.1	21.4	21.6	21.9	22.5	21.1	21.4	21.6	21.9	22.5
12H	4H	20.9	21.3	21.4	21.8	22.3	20.9	21.3	21.4	21.8	22.3
	6H	21.0	21.4	21.6	21.9	22.4	21.0	21.4	21.6	21.9	22.4
	8H	21.1	21.4	21.6	21.9	22.5	21.1	21.4	21.6	21.9	22.5

Maximum UGR = 22.5

POLAR GRAPH



Maximum Candela = 1287.836 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.)