

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L14-940-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-L14-940-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	1149
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	66
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	41196	41196	41196
55	32598	32598	32598
65	24368	24368	24368
75	12688	12688	12688
85	7691	7691	7691

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CANDELA TABULATION

	<u>0</u>
0.0	1369.345
0.5	1369.345
1.0	1368.639
1.5	1367.933
2.0	1367.933
2.5	1366.521
3.0	1364.404
3.5	1361.580
4.0	1358.757
4.5	1355.933
5.0	1351.698
5.5	1348.169
6.0	1343.934
6.5	1338.993
7.0	1334.052
7.5	1329.111
8.0	1324.170
8.5	1318.523
9.0	1312.171
9.5	1306.524
10.0	1300.171
10.5	1293.113
11.0	1285.349
11.5	1277.584
12.0	1269.114
12.5	1260.644
13.0	1251.468
13.5	1241.586
14.0	1230.998
14.5	1220.411
15.0	1208.411
15.5	1196.412
16.0	1183.001
16.5	1169.590
17.0	1155.473
17.5	1140.650
18.0	1125.121
18.5	1108.181
19.0	1090.535
19.5	1071.477
20.0	1051.713
20.5	1031.243
21.0	1009.362
21.5	986.775
22.0	962.070
22.5	937.366
23.0	911.249
23.5	884.427
24.0	856.193
24.5	827.959
25.0	799.020
25.5	768.668
26.0	737.611
26.5	706.554

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CANDELA TABULATION - (Cont.)

27.0	675.708
27.5	644.721
28.0	613.452
28.5	582.324
29.0	550.491
29.5	518.445
30.0	486.682
30.5	455.413
31.0	424.567
31.5	394.781
32.0	366.123
32.5	339.019
33.0	313.890
33.5	290.597
34.0	268.928
34.5	249.094
35.0	231.095
35.5	214.578
36.0	199.614
36.5	186.203
37.0	174.274
37.5	163.615
38.0	153.945
38.5	145.334
39.0	137.781
39.5	131.146
40.0	125.217
40.5	120.065
41.0	115.477
41.5	111.383
42.0	107.712
42.5	104.465
43.0	101.501
43.5	98.889
44.0	96.419
44.5	94.160
45.0	92.043
45.5	89.996
46.0	88.090
46.5	86.184
47.0	84.419
47.5	82.655
48.0	80.890
48.5	79.196
49.0	77.502
49.5	75.808
50.0	74.185
50.5	72.632
51.0	71.008
51.5	69.455
52.0	67.973
52.5	66.420
53.0	64.938
53.5	63.456
54.0	61.973
54.5	60.491

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CANDELA TABULATION - (Cont.)

55.0	59.079
55.5	57.668
56.0	56.256
56.5	54.844
57.0	53.433
57.5	52.092
58.0	50.680
58.5	49.339
59.0	47.998
59.5	46.727
60.0	45.386
60.5	44.045
61.0	42.704
61.5	41.433
62.0	40.092
62.5	38.822
63.0	37.551
63.5	36.281
64.0	35.010
64.5	33.740
65.0	32.540
65.5	31.340
66.0	30.140
66.5	28.869
67.0	27.740
67.5	26.610
68.0	25.411
68.5	24.281
69.0	23.152
69.5	22.022
70.0	20.964
70.5	19.834
71.0	18.776
71.5	17.646
72.0	16.587
72.5	15.529
73.0	14.470
73.5	13.411
74.0	12.423
74.5	11.364
75.0	10.376
75.5	9.458
76.0	8.541
76.5	7.835
77.0	7.200
77.5	6.635
78.0	6.211
78.5	5.859
79.0	5.576
79.5	5.294
80.0	4.941
80.5	4.659
81.0	4.376
81.5	4.094
82.0	3.741
82.5	3.459

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CANDELA TABULATION - (Cont.)

83.0	3.247
83.5	2.965
84.0	2.682
84.5	2.400
85.0	2.118
85.5	1.906
86.0	1.623
86.5	1.412
87.0	1.129
87.5	0.918
88.0	0.706
88.5	0.494
89.0	0.282
89.5	0.212
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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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
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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
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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	463.16	N.A.	40.30
0-30	819.91	N.A.	71.40
0-40	976.87	N.A.	85.00
0-60	1102.34	N.A.	95.90
0-80	1146.57	N.A.	99.80
0-90	1149.01	N.A.	100.00
10-90	1021.64	N.A.	88.90
20-40	513.72	N.A.	44.70
20-50	586.24	N.A.	51.00
40-70	157.81	N.A.	13.70
60-80	44.22	N.A.	3.80
70-80	11.88	N.A.	1.00
80-90	2.44	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	1149.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	127.37
10-20	335.78
20-30	356.75
30-40	156.97
40-50	72.52
50-60	52.95
60-70	32.34
70-80	11.88
80-90	2.44
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	85	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

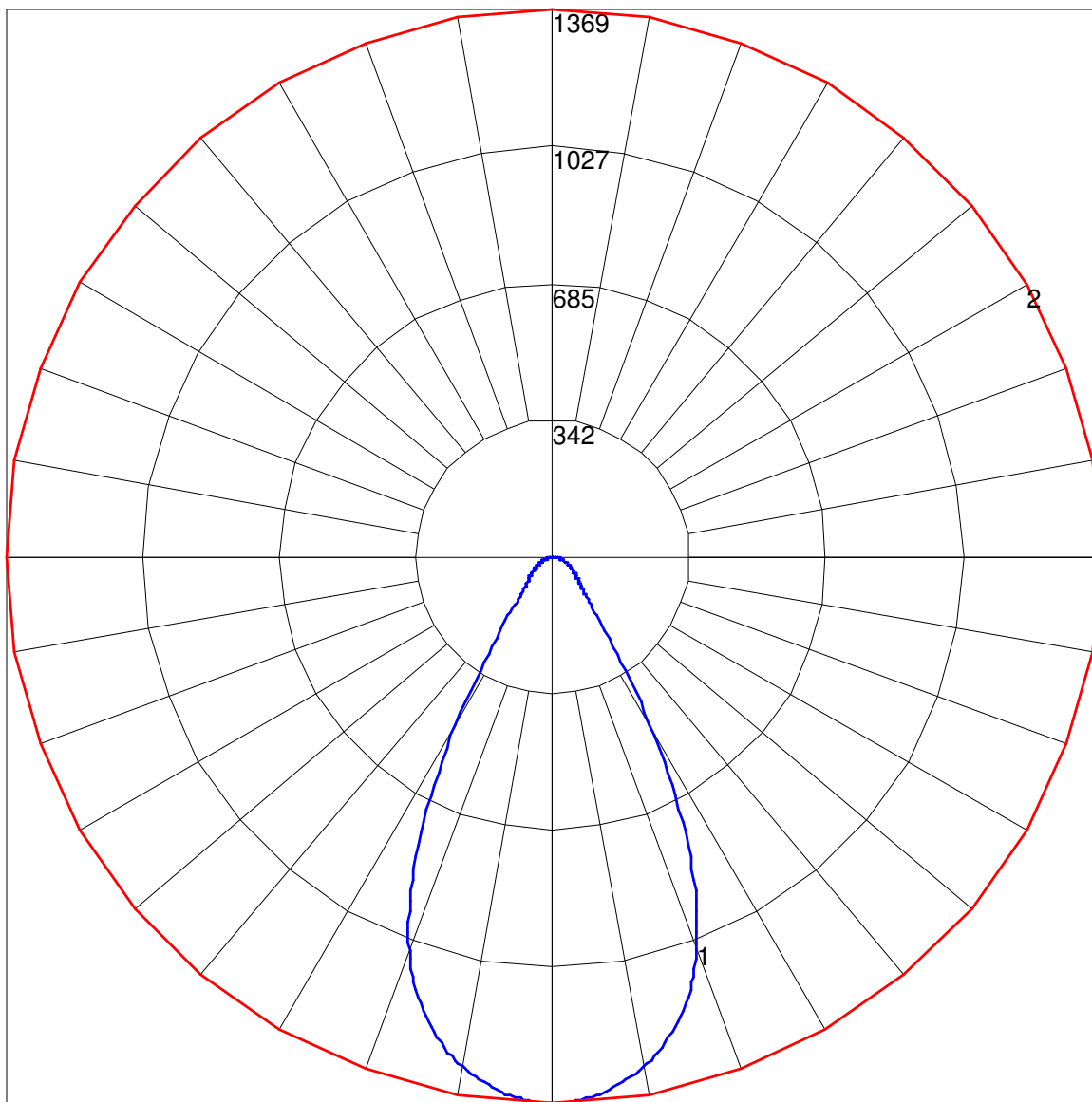
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UGR TABLE - CORRECTED

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	19.4	20.5	19.8	20.8	21.1	19.4	20.5	19.8	20.8	21.1
	3H	20.4	21.4	20.8	21.7	22.1	20.4	21.4	20.8	21.7	22.1
	4H	20.6	21.5	21.0	21.9	22.3	20.6	21.5	21.0	21.9	22.3
	6H	20.6	21.5	21.1	21.9	22.2	20.6	21.5	21.1	21.9	22.2
	8H	20.6	21.4	21.1	21.8	22.2	20.6	21.4	21.1	21.8	22.2
	12H	20.6	21.4	21.1	21.8	22.2	20.6	21.4	21.1	21.8	22.2
4H	2H	19.7	20.6	20.1	21.0	21.4	19.7	20.6	20.1	21.0	21.4
	3H	20.9	21.6	21.3	22.1	22.5	20.9	21.6	21.3	22.1	22.5
	4H	21.1	21.8	21.6	22.2	22.7	21.1	21.8	21.6	22.2	22.7
	6H	21.2	21.8	21.7	22.2	22.7	21.2	21.8	21.7	22.2	22.7
	8H	21.2	21.7	21.7	22.2	22.7	21.2	21.7	21.7	22.2	22.7
	12H	21.2	21.7	21.7	22.2	22.6	21.2	21.7	21.7	22.2	22.6
8H	4H	21.1	21.7	21.6	22.1	22.6	21.1	21.7	21.6	22.1	22.6
	6H	21.3	21.7	21.8	22.2	22.7	21.3	21.7	21.8	22.2	22.7
	8H	21.3	21.7	21.8	22.2	22.7	21.3	21.7	21.8	22.2	22.7
	12H	21.3	21.6	21.8	22.1	22.7	21.3	21.6	21.8	22.1	22.7
12H	4H	21.1	21.5	21.6	22.0	22.5	21.1	21.5	21.6	22.0	22.5
	6H	21.2	21.6	21.8	22.1	22.6	21.2	21.6	21.8	22.1	22.6
	8H	21.3	21.6	21.8	22.1	22.7	21.3	21.6	21.8	22.1	22.7

Maximum UGR = 22.7

POLAR GRAPH



Maximum Candela = 1369.345 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.)