

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L14-927-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-L14-927-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	1040
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	60
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	37272	37272	37272
55	29494	29494	29494
65	22047	22047	22047
75	11480	11480	11480
85	6957	6957	6957

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CANDELA TABULATION

	<u>0</u>
0.0	1238.931
0.5	1238.931
1.0	1238.292
1.5	1237.653
2.0	1237.653
2.5	1236.376
3.0	1234.460
3.5	1231.906
4.0	1229.351
4.5	1226.797
5.0	1222.965
5.5	1219.772
6.0	1215.940
6.5	1211.470
7.0	1206.999
7.5	1202.529
8.0	1198.059
8.5	1192.950
9.0	1187.202
9.5	1182.093
10.0	1176.346
10.5	1169.959
11.0	1162.934
11.5	1155.910
12.0	1148.246
12.5	1140.583
13.0	1132.280
13.5	1123.340
14.0	1113.760
14.5	1104.181
15.0	1093.324
15.5	1082.468
16.0	1070.334
16.5	1058.200
17.0	1045.428
17.5	1032.017
18.0	1017.967
18.5	1002.640
19.0	986.674
19.5	969.431
20.0	951.550
20.5	933.030
21.0	913.232
21.5	892.796
22.0	870.445
22.5	848.093
23.0	824.464
23.5	800.196
24.0	774.651
24.5	749.106
25.0	722.922
25.5	695.462
26.0	667.362
26.5	639.263

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CANDELA TABULATION - (Cont.)

27.0	611.355
27.5	583.319
28.0	555.028
28.5	526.865
29.0	498.063
29.5	469.069
30.0	440.331
30.5	412.040
31.0	384.132
31.5	357.182
32.0	331.254
32.5	306.731
33.0	283.996
33.5	262.922
34.0	243.316
34.5	225.370
35.0	209.086
35.5	194.142
36.0	180.603
36.5	168.469
37.0	157.676
37.5	148.033
38.0	139.284
38.5	131.493
39.0	124.659
39.5	118.656
40.0	113.292
40.5	108.630
41.0	104.479
41.5	100.775
42.0	97.454
42.5	94.516
43.0	91.834
43.5	89.471
44.0	87.236
44.5	85.192
45.0	83.277
45.5	81.425
46.0	79.700
46.5	77.976
47.0	76.379
47.5	74.783
48.0	73.186
48.5	71.654
49.0	70.121
49.5	68.588
50.0	67.119
50.5	65.714
51.0	64.246
51.5	62.841
52.0	61.499
52.5	60.095
53.0	58.753
53.5	57.412
54.0	56.071
54.5	54.730

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CANDELA TABULATION - (Cont.)

55.0	53.453
55.5	52.176
56.0	50.898
56.5	49.621
57.0	48.344
57.5	47.130
58.0	45.853
58.5	44.640
59.0	43.426
59.5	42.277
60.0	41.064
60.5	39.850
61.0	38.637
61.5	37.487
62.0	36.274
62.5	35.124
63.0	33.975
63.5	32.825
64.0	31.676
64.5	30.526
65.0	29.441
65.5	28.355
66.0	27.269
66.5	26.120
67.0	25.098
67.5	24.076
68.0	22.990
68.5	21.969
69.0	20.947
69.5	19.925
70.0	18.967
70.5	17.945
71.0	16.987
71.5	15.966
72.0	15.008
72.5	14.050
73.0	13.092
73.5	12.134
74.0	11.240
74.5	10.282
75.0	9.388
75.5	8.558
76.0	7.727
76.5	7.089
77.0	6.514
77.5	6.003
78.0	5.620
78.5	5.301
79.0	5.045
79.5	4.790
80.0	4.470
80.5	4.215
81.0	3.959
81.5	3.704
82.0	3.385
82.5	3.129

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CANDELA TABULATION - (Cont.)

83.0	2.938
83.5	2.682
84.0	2.427
84.5	2.171
85.0	1.916
85.5	1.724
86.0	1.469
86.5	1.277
87.0	1.022
87.5	0.830
88.0	0.639
88.5	0.447
89.0	0.255
89.5	0.192
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
127.5	0.000
128.0	0.000
128.5	0.000
129.0	0.000
129.5	0.000
130.0	0.000
130.5	0.000
131.0	0.000
131.5	0.000
132.0	0.000
132.5	0.000
133.0	0.000
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
148.5	0.000
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
154.5	0.000
155.0	0.000
155.5	0.000
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	419.05	N.A.	40.30
0-30	741.82	N.A.	71.40
0-40	883.84	N.A.	85.00
0-60	997.36	N.A.	95.90
0-80	1037.37	N.A.	99.80
0-90	1039.58	N.A.	100.00
10-90	924.34	N.A.	88.90
20-40	464.79	N.A.	44.70
20-50	530.41	N.A.	51.00
40-70	142.78	N.A.	13.70
60-80	40.01	N.A.	3.80
70-80	10.75	N.A.	1.00
80-90	2.21	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	1039.58	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	115.24
10-20	303.80
20-30	322.77
30-40	142.02
40-50	65.61
50-60	47.91
60-70	29.26
70-80	10.75
80-90	2.21
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	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

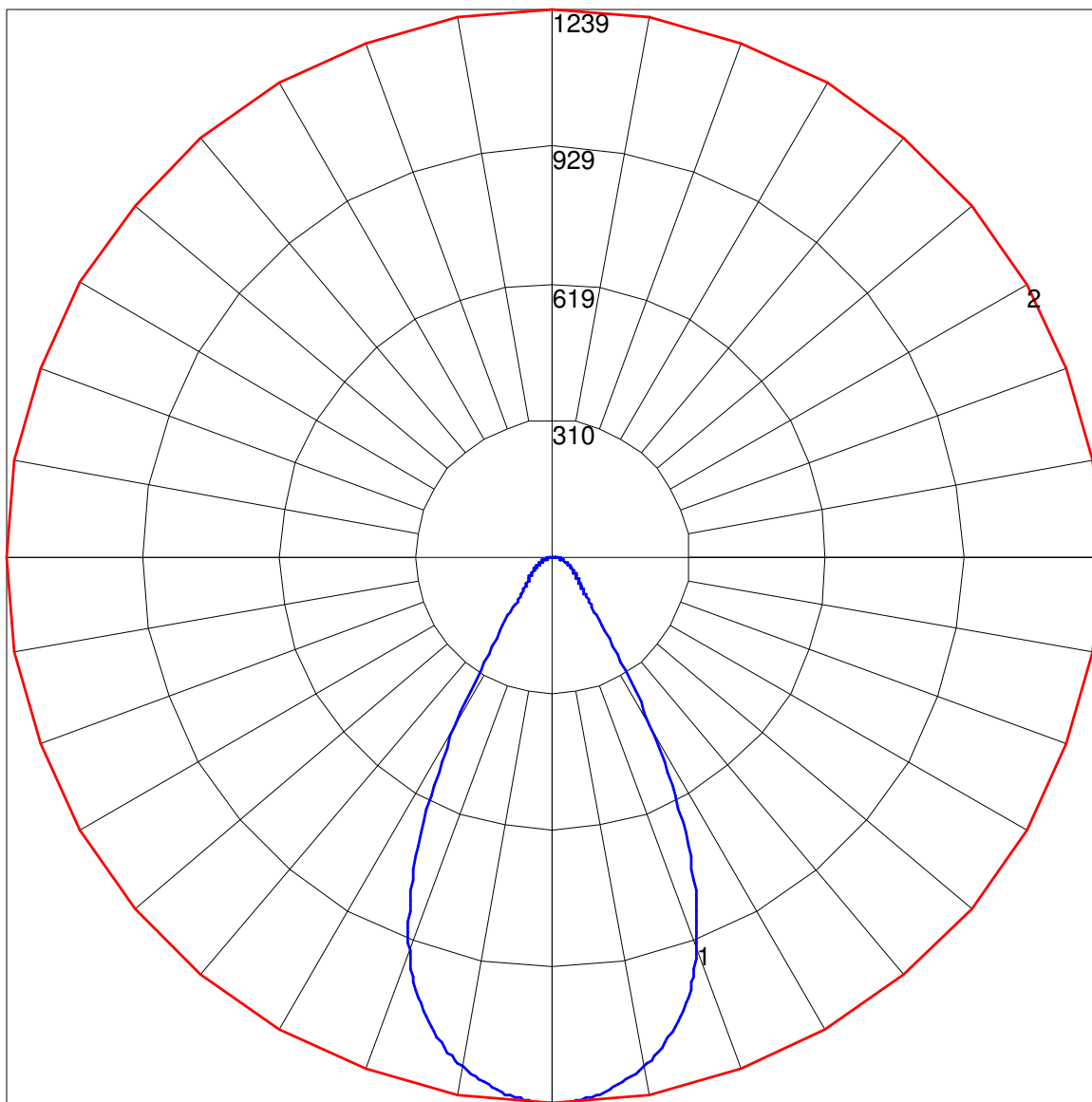
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UGR TABLE - CORRECTED

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	19.1	20.2	19.5	20.5	20.8	19.1	20.2	19.5	20.5	20.8
	3H	20.1	21.1	20.5	21.4	21.8	20.1	21.1	20.5	21.4	21.8
	4H	20.3	21.2	20.7	21.6	22.0	20.3	21.2	20.7	21.6	22.0
	6H	20.4	21.2	20.8	21.6	22.0	20.4	21.2	20.8	21.6	22.0
	8H	20.4	21.1	20.8	21.5	21.9	20.4	21.1	20.8	21.5	21.9
	12H	20.3	21.1	20.8	21.5	21.9	20.3	21.1	20.8	21.5	21.9
4H	2H	19.4	20.3	19.8	20.7	21.1	19.4	20.3	19.8	20.7	21.1
	3H	20.6	21.3	21.0	21.8	22.2	20.6	21.3	21.0	21.8	22.2
	4H	20.8	21.5	21.3	21.9	22.4	20.8	21.5	21.3	21.9	22.4
	6H	20.9	21.5	21.4	21.9	22.4	20.9	21.5	21.4	21.9	22.4
	8H	20.9	21.4	21.4	21.9	22.4	20.9	21.4	21.4	21.9	22.4
	12H	20.9	21.4	21.4	21.9	22.3	20.9	21.4	21.4	21.9	22.3
8H	4H	20.8	21.4	21.3	21.8	22.3	20.8	21.4	21.3	21.8	22.3
	6H	21.0	21.4	21.5	21.9	22.4	21.0	21.4	21.5	21.9	22.4
	8H	21.0	21.4	21.5	21.9	22.4	21.0	21.4	21.5	21.9	22.4
	12H	21.0	21.3	21.5	21.8	22.4	21.0	21.3	21.5	21.8	22.4
12H	4H	20.8	21.3	21.3	21.7	22.2	20.8	21.3	21.3	21.7	22.2
	6H	20.9	21.3	21.5	21.8	22.3	20.9	21.3	21.5	21.8	22.3
	8H	21.0	21.3	21.5	21.8	22.4	21.0	21.3	21.5	21.8	22.4

Maximum UGR = 22.4

POLAR GRAPH



Maximum Candela = 1238.931 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.)