

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L14-950-DIM-UNV-RW-OF-CS_.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-L14-950-DIM-UNV-RW-OF-CS_
[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	1180
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	68
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	42294	42294	42294
55	33467	33467	33467
65	25017	25017	25017
75	13026	13026	13026
85	7894	7894	7894

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CANDELA TABULATION

	<u>0</u>
0.0	1405.860
0.5	1405.860
1.0	1405.136
1.5	1404.411
2.0	1404.411
2.5	1402.962
3.0	1400.788
3.5	1397.889
4.0	1394.990
4.5	1392.092
5.0	1387.744
5.5	1384.120
6.0	1379.772
6.5	1374.700
7.0	1369.627
7.5	1364.554
8.0	1359.481
8.5	1353.684
9.0	1347.162
9.5	1341.365
10.0	1334.843
10.5	1327.596
11.0	1319.625
11.5	1311.653
12.0	1302.957
12.5	1294.261
13.0	1284.840
13.5	1274.695
14.0	1263.825
14.5	1252.955
15.0	1240.636
15.5	1228.316
16.0	1214.547
16.5	1200.779
17.0	1186.285
17.5	1171.067
18.0	1155.124
18.5	1137.732
19.0	1119.616
19.5	1100.050
20.0	1079.759
20.5	1058.743
21.0	1036.279
21.5	1013.089
22.0	987.726
22.5	962.362
23.0	935.549
23.5	908.012
24.0	879.025
24.5	850.038
25.0	820.327
25.5	789.166
26.0	757.280
26.5	725.395

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CANDELA TABULATION - (Cont.)

27.0	693.727
27.5	661.914
28.0	629.811
28.5	597.853
29.0	565.170
29.5	532.270
30.0	499.660
30.5	467.557
31.0	435.889
31.5	405.308
32.0	375.886
32.5	348.059
33.0	322.261
33.5	298.347
34.0	276.099
34.5	255.736
35.0	237.257
35.5	220.300
36.0	204.937
36.5	191.168
37.0	178.921
37.5	167.979
38.0	158.051
38.5	149.210
39.0	141.456
39.5	134.644
40.0	128.557
40.5	123.266
41.0	118.556
41.5	114.353
42.0	110.585
42.5	107.251
43.0	104.208
43.5	101.526
44.0	98.990
44.5	96.671
45.0	94.497
45.5	92.395
46.0	90.439
46.5	88.482
47.0	86.671
47.5	84.859
48.0	83.047
48.5	81.308
49.0	79.569
49.5	77.830
50.0	76.163
50.5	74.569
51.0	72.902
51.5	71.308
52.0	69.786
52.5	68.191
53.0	66.670
53.5	65.148
54.0	63.626
54.5	62.104

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CANDELA TABULATION - (Cont.)

55.0	60.655
55.5	59.206
56.0	57.756
56.5	56.307
57.0	54.858
57.5	53.481
58.0	52.031
58.5	50.654
59.0	49.278
59.5	47.973
60.0	46.596
60.5	45.219
61.0	43.843
61.5	42.538
62.0	41.161
62.5	39.857
63.0	38.552
63.5	37.248
64.0	35.944
64.5	34.639
65.0	33.407
65.5	32.175
66.0	30.943
66.5	29.639
67.0	28.480
67.5	27.320
68.0	26.088
68.5	24.929
69.0	23.769
69.5	22.610
70.0	21.523
70.5	20.363
71.0	19.276
71.5	18.117
72.0	17.030
72.5	15.943
73.0	14.856
73.5	13.769
74.0	12.754
74.5	11.667
75.0	10.653
75.5	9.711
76.0	8.769
76.5	8.044
77.0	7.392
77.5	6.812
78.0	6.377
78.5	6.015
79.0	5.725
79.5	5.435
80.0	5.073
80.5	4.783
81.0	4.493
81.5	4.203
82.0	3.841
82.5	3.551

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CANDELA TABULATION - (Cont.)

83.0	3.333
83.5	3.044
84.0	2.754
84.5	2.464
85.0	2.174
85.5	1.957
86.0	1.667
86.5	1.449
87.0	1.159
87.5	0.942
88.0	0.725
88.5	0.507
89.0	0.290
89.5	0.217
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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121.0	0.000
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122.5	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
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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149.0	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
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153.5	0.000
154.0	0.000
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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	475.51	N.A.	40.30
0-30	841.77	N.A.	71.40
0-40	1002.92	N.A.	85.00
0-60	1131.74	N.A.	95.90
0-80	1177.14	N.A.	99.80
0-90	1179.65	N.A.	100.00
10-90	1048.88	N.A.	88.90
20-40	527.42	N.A.	44.70
20-50	601.87	N.A.	51.00
40-70	162.02	N.A.	13.70
60-80	45.40	N.A.	3.80
70-80	12.20	N.A.	1.00
80-90	2.51	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	1179.65	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	130.77
10-20	344.74
20-30	366.26
30-40	161.15
40-50	74.45
50-60	54.36
60-70	33.20
70-80	12.20
80-90	2.51
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

X=2H	Y=2H	19.5	20.6	19.9	20.9	21.2	19.5	20.6	19.9	20.9	21.2
	3H	20.5	21.5	20.9	21.8	22.2	20.5	21.5	20.9	21.8	22.2
	4H	20.7	21.6	21.1	22.0	22.4	20.7	21.6	21.1	22.0	22.4
	6H	20.7	21.6	21.2	22.0	22.3	20.7	21.6	21.2	22.0	22.3
	8H	20.7	21.5	21.2	21.9	22.3	20.7	21.5	21.2	21.9	22.3
	12H	20.7	21.5	21.2	21.9	22.3	20.7	21.5	21.2	21.9	22.3

UGR Viewed Endwise

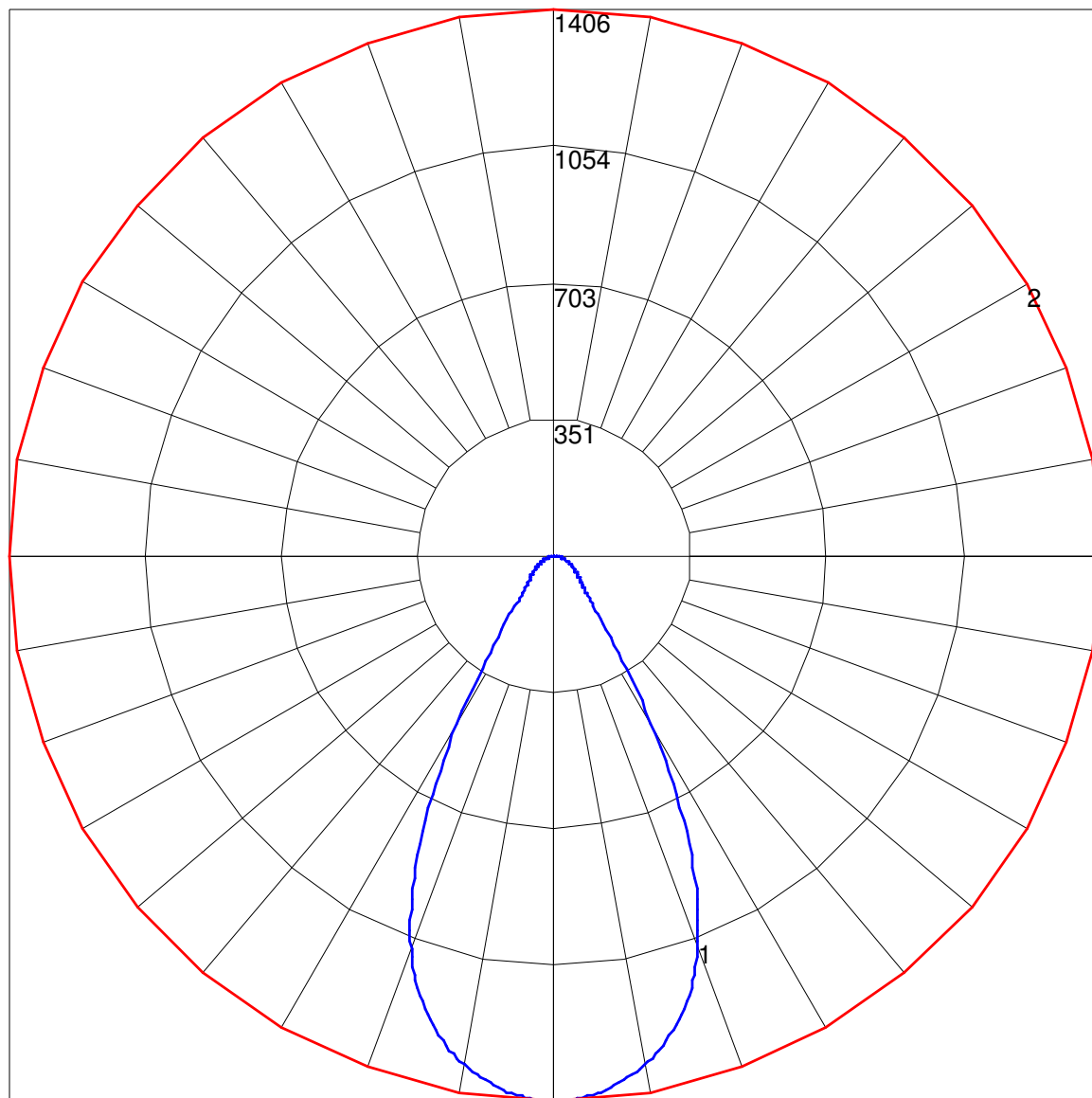
4H	2H	19.8	20.7	20.2	21.1	21.5	19.8	20.7	20.2	21.1	21.5
	3H	21.0	21.7	21.4	22.2	22.6	21.0	21.7	21.4	22.2	22.6
	4H	21.2	21.9	21.7	22.3	22.8	21.2	21.9	21.7	22.3	22.8
	6H	21.3	21.9	21.8	22.3	22.8	21.3	21.9	21.8	22.3	22.8
	8H	21.3	21.8	21.8	22.3	22.8	21.3	21.8	21.8	22.3	22.8
	12H	21.3	21.8	21.8	22.3	22.7	21.3	21.8	21.8	22.3	22.7

8H	4H	21.2	21.8	21.7	22.2	22.7	21.2	21.8	21.7	22.2	22.7
	6H	21.4	21.8	21.9	22.3	22.8	21.4	21.8	21.9	22.3	22.8
	8H	21.4	21.8	21.9	22.3	22.8	21.4	21.8	21.9	22.3	22.8
	12H	21.4	21.7	21.9	22.2	22.8	21.4	21.7	21.9	22.2	22.8

12H	4H	21.2	21.6	21.7	22.1	22.6	21.2	21.6	21.7	22.1	22.6
	6H	21.3	21.7	21.9	22.2	22.7	21.3	21.7	21.9	22.2	22.7
	8H	21.4	21.7	21.9	22.2	22.8	21.4	21.7	21.9	22.2	22.8

Maximum UGR = 22.8

POLAR GRAPH



Maximum Candela = 1405.86 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.)