

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L14-830-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.
[ISSUE DATE] 2025-05-20
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] V2DR-L14-830-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 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	1341
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	77
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	48061	48061	48061
55	38031	38031	38031
65	28429	28429	28429
75	14802	14802	14802
85	8969	8969	8969

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CANDELA TABULATION

	<u>0</u>
0.0	1597.569
0.5	1597.569
1.0	1596.745
1.5	1595.922
2.0	1595.922
2.5	1594.275
3.0	1591.804
3.5	1588.510
4.0	1585.216
4.5	1581.922
5.0	1576.981
5.5	1572.864
6.0	1567.923
6.5	1562.159
7.0	1556.394
7.5	1550.630
8.0	1544.865
8.5	1538.277
9.0	1530.866
9.5	1524.278
10.0	1516.867
10.5	1508.632
11.0	1499.573
11.5	1490.515
12.0	1480.633
12.5	1470.751
13.0	1460.046
13.5	1448.517
14.0	1436.165
14.5	1423.812
15.0	1409.813
15.5	1395.814
16.0	1380.168
16.5	1364.521
17.0	1348.052
17.5	1330.758
18.0	1312.641
18.5	1292.878
19.0	1272.291
19.5	1250.056
20.0	1226.999
20.5	1203.117
21.0	1177.589
21.5	1151.238
22.0	1122.416
22.5	1093.593
23.0	1063.124
23.5	1031.832
24.0	998.892
24.5	965.953
25.0	932.190
25.5	896.780
26.0	860.546
26.5	824.312

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CANDELA TABULATION - (Cont.)

27.0	788.326
27.5	752.175
28.0	715.694
28.5	679.378
29.0	642.239
29.5	604.853
30.0	567.796
30.5	531.315
31.0	495.329
31.5	460.577
32.0	427.144
32.5	395.522
33.0	366.206
33.5	339.030
34.0	313.749
34.5	290.609
35.0	269.610
35.5	250.341
36.0	232.883
36.5	217.236
37.0	203.319
37.5	190.885
38.0	179.603
38.5	169.556
39.0	160.745
39.5	153.004
40.0	146.087
40.5	140.075
41.0	134.723
41.5	129.947
42.0	125.664
42.5	121.876
43.0	118.418
43.5	115.371
44.0	112.489
44.5	109.853
45.0	107.383
45.5	104.995
46.0	102.771
46.5	100.548
47.0	98.489
47.5	96.431
48.0	94.372
48.5	92.395
49.0	90.419
49.5	88.443
50.0	86.549
50.5	84.737
51.0	82.843
51.5	81.031
52.0	79.302
52.5	77.490
53.0	75.761
53.5	74.032
54.0	72.302
54.5	70.573

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CANDELA TABULATION - (Cont.)

55.0	68.926
55.5	67.279
56.0	65.632
56.5	63.985
57.0	62.338
57.5	60.773
58.0	59.127
58.5	57.562
59.0	55.997
59.5	54.515
60.0	52.950
60.5	51.386
61.0	49.821
61.5	48.339
62.0	46.774
62.5	45.292
63.0	43.810
63.5	42.327
64.0	40.845
64.5	39.363
65.0	37.963
65.5	36.563
66.0	35.163
66.5	33.681
67.0	32.363
67.5	31.046
68.0	29.646
68.5	28.328
69.0	27.010
69.5	25.693
70.0	24.458
70.5	23.140
71.0	21.905
71.5	20.587
72.0	19.352
72.5	18.117
73.0	16.882
73.5	15.646
74.0	14.493
74.5	13.258
75.0	12.105
75.5	11.035
76.0	9.964
76.5	9.141
77.0	8.400
77.5	7.741
78.0	7.247
78.5	6.835
79.0	6.506
79.5	6.176
80.0	5.764
80.5	5.435
81.0	5.106
81.5	4.776
82.0	4.364
82.5	4.035

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CANDELA TABULATION - (Cont.)

83.0	3.788
83.5	3.459
84.0	3.129
84.5	2.800
85.0	2.470
85.5	2.223
86.0	1.894
86.5	1.647
87.0	1.318
87.5	1.071
88.0	0.823
88.5	0.576
89.0	0.329
89.5	0.247
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
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125.5	0.000
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128.5	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
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	540.35	N.A.	40.30
0-30	956.56	N.A.	71.40
0-40	1139.69	N.A.	85.00
0-60	1286.07	N.A.	95.90
0-80	1337.66	N.A.	99.80
0-90	1340.51	N.A.	100.00
10-90	1191.91	N.A.	88.90
20-40	599.34	N.A.	44.70
20-50	683.95	N.A.	51.00
40-70	184.11	N.A.	13.70
60-80	51.60	N.A.	3.80
70-80	13.86	N.A.	1.00
80-90	2.85	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	1340.51	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	148.60
10-20	391.75
20-30	416.21
30-40	183.13
40-50	84.61
50-60	61.78
60-70	37.73
70-80	13.86
80-90	2.85
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	19.9	21.0	20.3	21.3	21.6	19.9	21.0	20.3	21.3	21.6
	3H	20.9	21.9	21.3	22.2	22.6	20.9	21.9	21.3	22.2	22.6
	4H	21.1	22.0	21.5	22.4	22.8	21.1	22.0	21.5	22.4	22.8
	6H	21.1	22.0	21.6	22.4	22.7	21.1	22.0	21.6	22.4	22.7
	8H	21.1	21.9	21.6	22.3	22.7	21.1	21.9	21.6	22.3	22.7
	12H	21.1	21.9	21.6	22.3	22.7	21.1	21.9	21.6	22.3	22.7

UGR Viewed Endwise

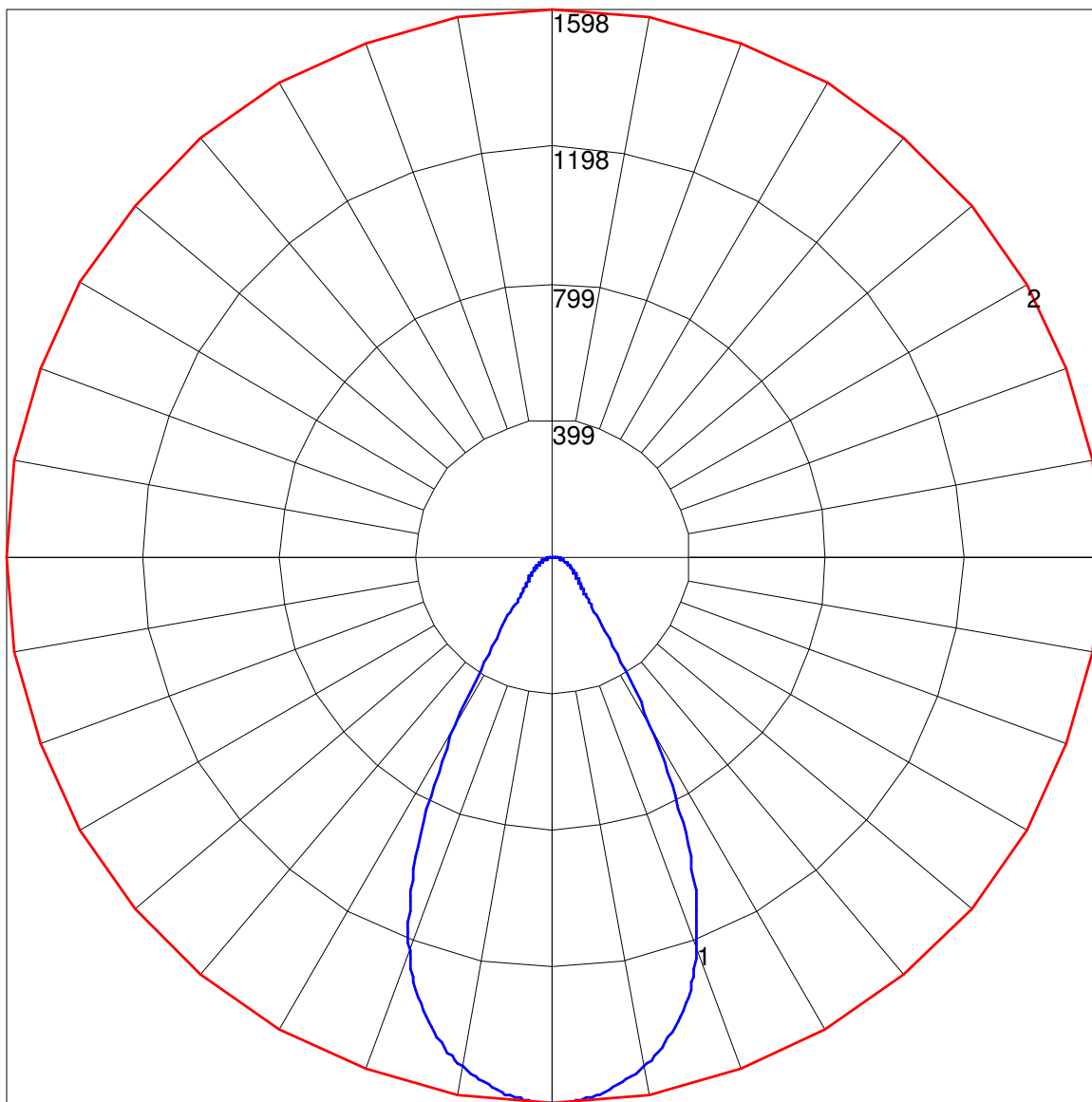
4H	2H	20.2	21.1	20.6	21.5	21.9	20.2	21.1	20.6	21.5	21.9
	3H	21.4	22.1	21.8	22.6	23.0	21.4	22.1	21.8	22.6	23.0
	4H	21.6	22.3	22.1	22.7	23.2	21.6	22.3	22.1	22.7	23.2
	6H	21.7	22.3	22.2	22.7	23.2	21.7	22.3	22.2	22.7	23.2
	8H	21.7	22.2	22.2	22.7	23.2	21.7	22.2	22.2	22.7	23.2
	12H	21.7	22.2	22.2	22.7	23.1	21.7	22.2	22.2	22.7	23.1

8H	4H	21.6	22.2	22.1	22.6	23.1	21.6	22.2	22.1	22.6	23.1
	6H	21.8	22.2	22.3	22.7	23.2	21.8	22.2	22.3	22.7	23.2
	8H	21.8	22.2	22.3	22.7	23.2	21.8	22.2	22.3	22.7	23.2
	12H	21.8	22.1	22.3	22.6	23.2	21.8	22.1	22.3	22.6	23.2

12H	4H	21.6	22.0	22.1	22.5	23.0	21.6	22.0	22.1	22.5	23.0
	6H	21.7	22.1	22.3	22.6	23.1	21.7	22.1	22.3	22.6	23.1
	8H	21.8	22.1	22.3	22.6	23.2	21.8	22.1	22.3	22.6	23.2

Maximum UGR = 23.2

POLAR GRAPH



Maximum Candela = 1597.569 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.)