

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L14-827-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-L14-827-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 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	1233
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	71
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	44216	44216	44216
55	34989	34989	34989
65	26155	26155	26155
75	13618	13618	13618
85	8254	8254	8254

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CANDELA TABULATION

	<u>0</u>
0.0	1469.763
0.5	1469.763
1.0	1469.005
1.5	1468.248
2.0	1468.248
2.5	1466.733
3.0	1464.460
3.5	1461.429
4.0	1458.399
4.5	1455.368
5.0	1450.823
5.5	1447.035
6.0	1442.489
6.5	1437.186
7.0	1431.882
7.5	1426.579
8.0	1421.276
8.5	1415.215
9.0	1408.397
9.5	1402.336
10.0	1395.517
10.5	1387.941
11.0	1379.607
11.5	1371.274
12.0	1362.182
12.5	1353.091
13.0	1343.242
13.5	1332.636
14.0	1321.271
14.5	1309.907
15.0	1297.028
15.5	1284.149
16.0	1269.754
16.5	1255.359
17.0	1240.207
17.5	1224.297
18.0	1207.630
18.5	1189.447
19.0	1170.507
19.5	1150.052
20.0	1128.839
20.5	1106.868
21.0	1083.382
21.5	1059.138
22.0	1032.622
22.5	1006.106
23.0	978.074
23.5	949.285
24.0	918.981
24.5	888.676
25.0	857.614
25.5	825.037
26.0	791.702
26.5	758.367

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CANDELA TABULATION - (Cont.)

27.0	725.260
27.5	692.001
28.0	658.439
28.5	625.028
29.0	590.860
29.5	556.464
30.0	522.372
30.5	488.810
31.0	455.702
31.5	423.731
32.0	392.972
32.5	363.880
33.0	336.909
33.5	311.908
34.0	288.649
34.5	267.360
35.0	248.041
35.5	230.313
36.0	214.252
36.5	199.857
37.0	187.054
37.5	175.614
38.0	165.235
38.5	155.992
39.0	147.885
39.5	140.764
40.0	134.400
40.5	128.869
41.0	123.945
41.5	119.551
42.0	115.611
42.5	112.126
43.0	108.944
43.5	106.141
44.0	103.489
44.5	101.065
45.0	98.792
45.5	96.595
46.0	94.550
46.5	92.504
47.0	90.610
47.5	88.716
48.0	86.822
48.5	85.004
49.0	83.186
49.5	81.367
50.0	79.625
50.5	77.958
51.0	76.216
51.5	74.549
52.0	72.958
52.5	71.291
53.0	69.700
53.5	68.109
54.0	66.518
54.5	64.927

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CANDELA TABULATION - (Cont.)

55.0	63.412
55.5	61.897
56.0	60.381
56.5	58.866
57.0	57.351
57.5	55.912
58.0	54.396
58.5	52.957
59.0	51.517
59.5	50.154
60.0	48.714
60.5	47.275
61.0	45.835
61.5	44.472
62.0	43.032
62.5	41.669
63.0	40.305
63.5	38.941
64.0	37.577
64.5	36.214
65.0	34.926
65.5	33.638
66.0	32.350
66.5	30.986
67.0	29.774
67.5	28.562
68.0	27.274
68.5	26.062
69.0	24.850
69.5	23.637
70.0	22.501
70.5	21.289
71.0	20.152
71.5	18.940
72.0	17.804
72.5	16.667
73.0	15.531
73.5	14.395
74.0	13.334
74.5	12.198
75.0	11.137
75.5	10.152
76.0	9.167
76.5	8.409
77.0	7.728
77.5	7.122
78.0	6.667
78.5	6.288
79.0	5.985
79.5	5.682
80.0	5.303
80.5	5.000
81.0	4.697
81.5	4.394
82.0	4.015
82.5	3.712

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CANDELA TABULATION - (Cont.)

83.0	3.485
83.5	3.182
84.0	2.879
84.5	2.576
85.0	2.273
85.5	2.046
86.0	1.743
86.5	1.515
87.0	1.212
87.5	0.985
88.0	0.758
88.5	0.530
89.0	0.303
89.5	0.227
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
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125.5	0.000
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126.5	0.000
127.0	0.000
127.5	0.000
128.0	0.000
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129.0	0.000
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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
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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	497.12	N.A.	40.30
0-30	880.03	N.A.	71.40
0-40	1048.51	N.A.	85.00
0-60	1183.18	N.A.	95.90
0-80	1230.65	N.A.	99.80
0-90	1233.27	N.A.	100.00
10-90	1096.56	N.A.	88.90
20-40	551.39	N.A.	44.70
20-50	629.23	N.A.	51.00
40-70	169.38	N.A.	13.70
60-80	47.47	N.A.	3.80
70-80	12.75	N.A.	1.00
80-90	2.62	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	1233.27	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	136.71
10-20	360.41
20-30	382.91
30-40	168.48
40-50	77.84
50-60	56.83
60-70	34.71
70-80	12.75
80-90	2.62
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	86	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	73	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	62	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	19.7	20.8	20.1	21.1	21.4	19.7	20.8	20.1	21.1	21.4
	3H	20.7	21.7	21.1	22.0	22.4	20.7	21.7	21.1	22.0	22.4
	4H	20.9	21.8	21.3	22.2	22.6	20.9	21.8	21.3	22.2	22.6
	6H	20.9	21.8	21.4	22.2	22.5	20.9	21.8	21.4	22.2	22.5
	8H	20.9	21.7	21.4	22.1	22.5	20.9	21.7	21.4	22.1	22.5
	12H	20.9	21.7	21.4	22.1	22.5	20.9	21.7	21.4	22.1	22.5

UGR Viewed Endwise

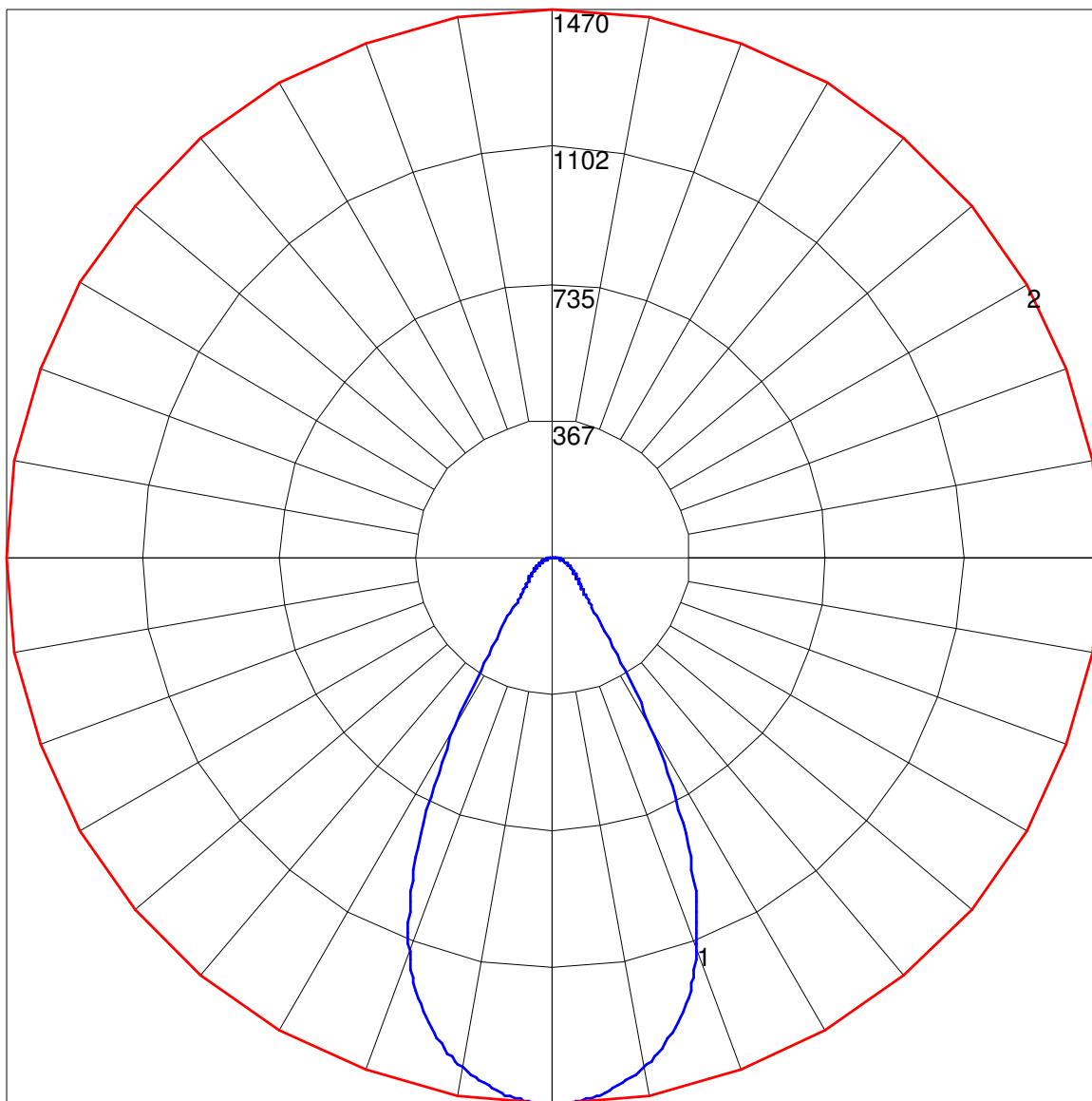
4H	2H	20.0	20.9	20.4	21.3	21.7	20.0	20.9	20.4	21.3	21.7
	3H	21.2	21.9	21.6	22.4	22.8	21.2	21.9	21.6	22.4	22.8
	4H	21.4	22.1	21.9	22.5	23.0	21.4	22.1	21.9	22.5	23.0
	6H	21.5	22.1	22.0	22.5	23.0	21.5	22.1	22.0	22.5	23.0
	8H	21.5	22.0	22.0	22.5	23.0	21.5	22.0	22.0	22.5	23.0
	12H	21.5	22.0	22.0	22.5	22.9	21.5	22.0	22.0	22.5	22.9

8H	4H	21.4	22.0	21.9	22.4	22.9	21.4	22.0	21.9	22.4	22.9
	6H	21.6	22.0	22.1	22.5	23.0	21.6	22.0	22.1	22.5	23.0
	8H	21.6	22.0	22.1	22.5	23.0	21.6	22.0	22.1	22.5	23.0
	12H	21.6	21.9	22.1	22.4	23.0	21.6	21.9	22.1	22.4	23.0

12H	4H	21.4	21.8	21.9	22.3	22.8	21.4	21.8	21.9	22.3	22.8
	6H	21.5	21.9	22.1	22.4	22.9	21.5	21.9	22.1	22.4	22.9
	8H	21.6	21.9	22.1	22.4	23.0	21.6	21.9	22.1	22.4	23.0

Maximum UGR = 23.0

POLAR GRAPH



Maximum Candela = 1469.763 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.)