

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L14-835-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-L14-835-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	1368
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	79
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	49042	49042	49042
55	38807	38807	38807
65	29009	29009	29009
75	15104	15104	15104
85	9154	9154	9154

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CANDELA TABULATION

	<u>0</u>
0.0	1630.172
0.5	1630.172
1.0	1629.332
1.5	1628.491
2.0	1628.491
2.5	1626.811
3.0	1624.290
3.5	1620.929
4.0	1617.567
4.5	1614.206
5.0	1609.165
5.5	1604.963
6.0	1599.921
6.5	1594.039
7.0	1588.157
7.5	1582.275
8.0	1576.393
8.5	1569.671
9.0	1562.108
9.5	1555.386
10.0	1547.823
10.5	1539.420
11.0	1530.177
11.5	1520.934
12.0	1510.850
12.5	1500.766
13.0	1489.843
13.5	1478.079
14.0	1465.474
14.5	1452.870
15.0	1438.585
15.5	1424.300
16.0	1408.334
16.5	1392.368
17.0	1375.563
17.5	1357.916
18.0	1339.430
18.5	1319.263
19.0	1298.255
19.5	1275.567
20.0	1252.039
20.5	1227.671
21.0	1201.622
21.5	1174.732
22.0	1145.322
22.5	1115.911
23.0	1084.821
23.5	1052.889
24.0	1019.278
24.5	985.666
25.0	951.214
25.5	915.081
26.0	878.108
26.5	841.135

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CANDELA TABULATION - (Cont.)

27.0	804.414
27.5	767.525
28.0	730.300
28.5	693.243
29.0	655.346
29.5	617.197
30.0	579.383
30.5	542.158
31.0	505.437
31.5	469.977
32.0	435.861
32.5	403.594
33.0	373.679
33.5	345.949
34.0	320.152
34.5	296.540
35.0	275.113
35.5	255.450
36.0	237.635
36.5	221.670
37.0	207.469
37.5	194.780
38.0	183.268
38.5	173.017
39.0	164.026
39.5	156.127
40.0	149.068
40.5	142.934
41.0	137.472
41.5	132.599
42.0	128.229
42.5	124.364
43.0	120.834
43.5	117.725
44.0	114.784
44.5	112.095
45.0	109.574
45.5	107.138
46.0	104.869
46.5	102.600
47.0	100.499
47.5	98.399
48.0	96.298
48.5	94.281
49.0	92.264
49.5	90.248
50.0	88.315
50.5	86.466
51.0	84.534
51.5	82.685
52.0	80.920
52.5	79.072
53.0	77.307
53.5	75.543
54.0	73.778
54.5	72.013

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CANDELA TABULATION - (Cont.)

55.0	70.333
55.5	68.652
56.0	66.971
56.5	65.291
57.0	63.610
57.5	62.014
58.0	60.333
58.5	58.737
59.0	57.140
59.5	55.628
60.0	54.031
60.5	52.434
61.0	50.838
61.5	49.325
62.0	47.729
62.5	46.216
63.0	44.704
63.5	43.191
64.0	41.679
64.5	40.166
65.0	38.738
65.5	37.309
66.0	35.881
66.5	34.368
67.0	33.024
67.5	31.679
68.0	30.251
68.5	28.906
69.0	27.562
69.5	26.217
70.0	24.957
70.5	23.612
71.0	22.352
71.5	21.007
72.0	19.747
72.5	18.486
73.0	17.226
73.5	15.966
74.0	14.789
74.5	13.529
75.0	12.352
75.5	11.260
76.0	10.168
76.5	9.327
77.0	8.571
77.5	7.899
78.0	7.395
78.5	6.974
79.0	6.638
79.5	6.302
80.0	5.882
80.5	5.546
81.0	5.210
81.5	4.874
82.0	4.454
82.5	4.117

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CANDELA TABULATION - (Cont.)

83.0	3.865
83.5	3.529
84.0	3.193
84.5	2.857
85.0	2.521
85.5	2.269
86.0	1.933
86.5	1.681
87.0	1.344
87.5	1.092
88.0	0.840
88.5	0.588
89.0	0.336
89.5	0.252
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
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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
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151.0	0.000
151.5	0.000
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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	551.38	N.A.	40.30
0-30	976.08	N.A.	71.40
0-40	1162.94	N.A.	85.00
0-60	1312.31	N.A.	95.90
0-80	1364.96	N.A.	99.80
0-90	1367.87	N.A.	100.00
10-90	1216.24	N.A.	88.90
20-40	611.57	N.A.	44.70
20-50	697.90	N.A.	51.00
40-70	187.87	N.A.	13.70
60-80	52.65	N.A.	3.80
70-80	14.15	N.A.	1.00
80-90	2.91	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	1367.87	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	151.63
10-20	399.74
20-30	424.70
30-40	186.87
40-50	86.33
50-60	63.04
60-70	38.50
70-80	14.15
80-90	2.91
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	84	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

X=2H	Y=2H	20.0	21.1	20.4	21.4	21.7	20.0	21.1	20.4	21.4	21.7
	3H	21.0	22.0	21.4	22.3	22.7	21.0	22.0	21.4	22.3	22.7
	4H	21.2	22.1	21.6	22.5	22.9	21.2	22.1	21.6	22.5	22.9
	6H	21.3	22.1	21.7	22.5	22.9	21.3	22.1	21.7	22.5	22.9
	8H	21.2	22.0	21.7	22.4	22.8	21.2	22.0	21.7	22.4	22.8
	12H	21.2	22.0	21.7	22.4	22.8	21.2	22.0	21.7	22.4	22.8

UGR Viewed Endwise

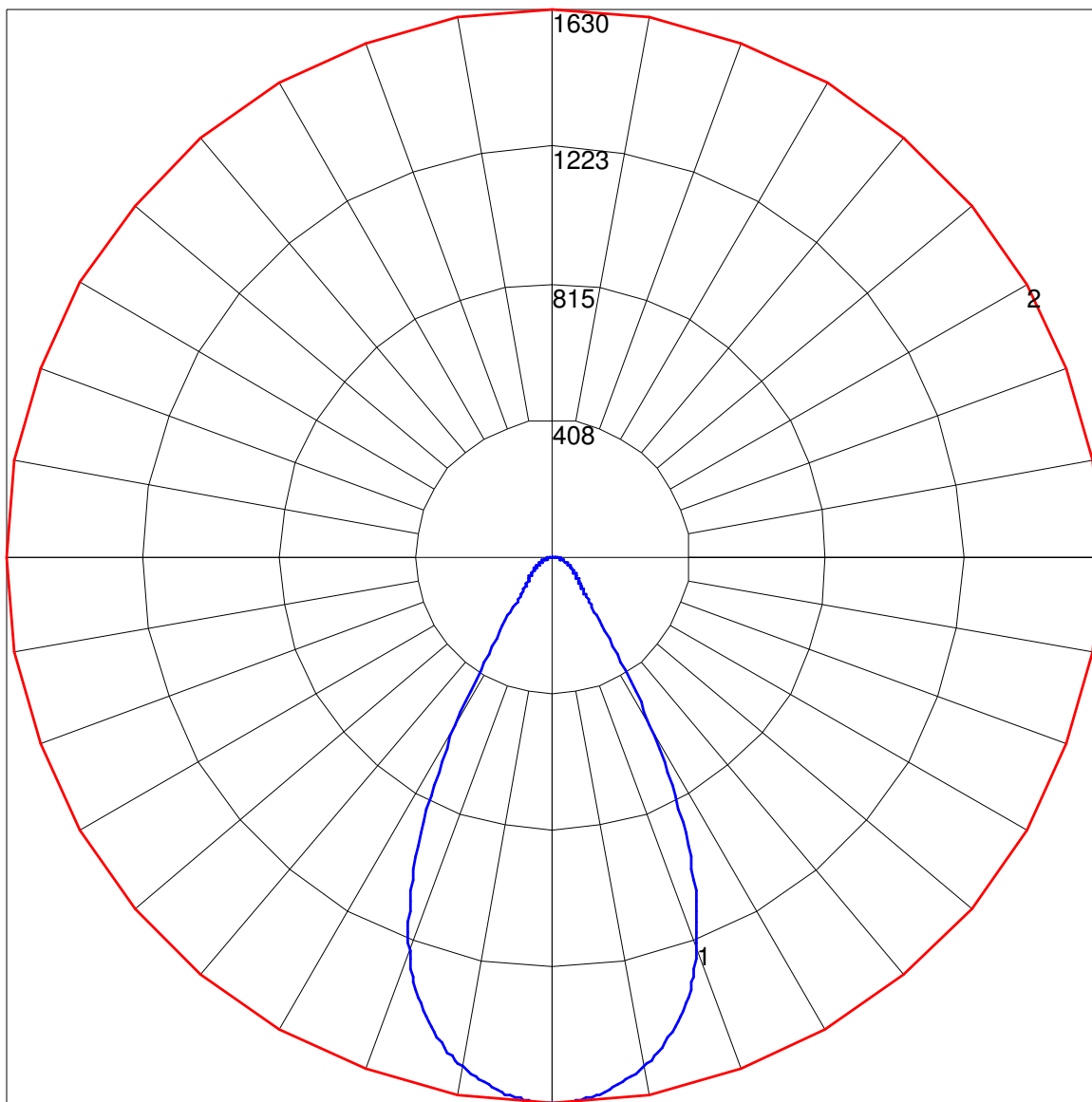
4H	2H	20.3	21.2	20.7	21.6	22.0	20.3	21.2	20.7	21.6	22.0
	3H	21.5	22.2	21.9	22.7	23.1	21.5	22.2	21.9	22.7	23.1
	4H	21.7	22.4	22.2	22.8	23.3	21.7	22.4	22.2	22.8	23.3
	6H	21.8	22.4	22.3	22.8	23.3	21.8	22.4	22.3	22.8	23.3
	8H	21.8	22.3	22.3	22.8	23.3	21.8	22.3	22.3	22.8	23.3
	12H	21.8	22.3	22.3	22.8	23.2	21.8	22.3	22.3	22.8	23.2

8H	4H	21.7	22.3	22.2	22.7	23.2	21.7	22.3	22.2	22.7	23.2
	6H	21.9	22.3	22.4	22.8	23.3	21.9	22.3	22.4	22.8	23.3
	8H	21.9	22.3	22.4	22.8	23.3	21.9	22.3	22.4	22.8	23.3
	12H	21.9	22.2	22.4	22.7	23.3	21.9	22.2	22.4	22.7	23.3

12H	4H	21.7	22.2	22.2	22.6	23.1	21.7	22.2	22.2	22.6	23.1
	6H	21.8	22.2	22.4	22.7	23.2	21.8	22.2	22.4	22.7	23.2
	8H	21.9	22.2	22.4	22.7	23.3	21.9	22.2	22.4	22.7	23.3

Maximum UGR = 23.3

POLAR GRAPH



Maximum Candela = 1630.172 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.)