

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L18-835-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-L18-835-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	1752
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	73
Total Luminaire Watts	23.9
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	62809	62809	62809
55	49700	49700	49700
65	37152	37152	37152
75	19344	19344	19344
85	11725	11725	11725

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CANDELA TABULATION

	<u>0</u>
0.0	2087.764
0.5	2087.764
1.0	2086.688
1.5	2085.612
2.0	2085.612
2.5	2083.459
3.0	2080.231
3.5	2075.926
4.0	2071.621
4.5	2067.317
5.0	2060.860
5.5	2055.479
6.0	2049.022
6.5	2041.489
7.0	2033.956
7.5	2026.422
8.0	2018.889
8.5	2010.280
9.0	2000.594
9.5	1991.985
10.0	1982.300
10.5	1971.538
11.0	1959.700
11.5	1947.862
12.0	1934.948
12.5	1922.034
13.0	1908.044
13.5	1892.978
14.0	1876.835
14.5	1860.693
15.0	1842.398
15.5	1824.103
16.0	1803.656
16.5	1783.209
17.0	1761.685
17.5	1739.086
18.0	1715.410
18.5	1689.582
19.0	1662.678
19.5	1633.621
20.0	1603.489
20.5	1572.280
21.0	1538.919
21.5	1504.481
22.0	1466.816
22.5	1429.150
23.0	1389.332
23.5	1348.437
24.0	1305.391
24.5	1262.344
25.0	1218.221
25.5	1171.946
26.0	1124.595
26.5	1077.243

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CANDELA TABULATION - (Cont.)

27.0	1030.215
27.5	982.971
28.0	935.297
28.5	887.838
29.0	839.303
29.5	790.445
30.0	742.017
30.5	694.343
31.0	647.314
31.5	601.900
32.0	558.208
32.5	516.883
33.0	478.571
33.5	443.058
34.0	410.020
34.5	379.779
35.0	352.337
35.5	327.155
36.0	304.340
36.5	283.893
37.0	265.706
37.5	249.456
38.0	234.712
38.5	221.583
39.0	210.068
39.5	199.952
40.0	190.912
40.5	183.056
41.0	176.061
41.5	169.819
42.0	164.223
42.5	159.273
43.0	154.753
43.5	150.771
44.0	147.004
44.5	143.561
45.0	140.332
45.5	137.211
46.0	134.306
46.5	131.400
47.0	128.710
47.5	126.019
48.0	123.329
48.5	120.746
49.0	118.163
49.5	115.580
50.0	113.105
50.5	110.738
51.0	108.262
51.5	105.895
52.0	103.635
52.5	101.267
53.0	99.007
53.5	96.747
54.0	94.487
54.5	92.228

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CANDELA TABULATION - (Cont.)

55.0	90.075
55.5	87.923
56.0	85.771
56.5	83.618
57.0	81.466
57.5	79.421
58.0	77.269
58.5	75.224
59.0	73.179
59.5	71.242
60.0	69.198
60.5	67.153
61.0	65.108
61.5	63.171
62.0	61.126
62.5	59.189
63.0	57.252
63.5	55.315
64.0	53.378
64.5	51.441
65.0	49.611
65.5	47.782
66.0	45.952
66.5	44.015
67.0	42.293
67.5	40.571
68.0	38.742
68.5	37.020
69.0	35.298
69.5	33.576
70.0	31.962
70.5	30.240
71.0	28.626
71.5	26.904
72.0	25.290
72.5	23.676
73.0	22.061
73.5	20.447
74.0	18.941
74.5	17.326
75.0	15.820
75.5	14.421
76.0	13.022
76.5	11.945
77.0	10.977
77.5	10.116
78.0	9.470
78.5	8.932
79.0	8.502
79.5	8.071
80.0	7.533
80.5	7.103
81.0	6.672
81.5	6.242
82.0	5.704
82.5	5.273

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CANDELA TABULATION - (Cont.)

83.0	4.950
83.5	4.520
84.0	4.089
84.5	3.659
85.0	3.229
85.5	2.906
86.0	2.475
86.5	2.152
87.0	1.722
87.5	1.399
88.0	1.076
88.5	0.753
89.0	0.430
89.5	0.323
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
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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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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	706.15	N.A.	40.30
0-30	1250.06	N.A.	71.40
0-40	1489.39	N.A.	85.00
0-60	1680.68	N.A.	95.90
0-80	1748.11	N.A.	99.80
0-90	1751.83	N.A.	100.00
10-90	1557.64	N.A.	88.90
20-40	783.24	N.A.	44.70
20-50	893.81	N.A.	51.00
40-70	240.61	N.A.	13.70
60-80	67.43	N.A.	3.80
70-80	18.12	N.A.	1.00
80-90	3.72	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	1751.83	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	194.20
10-20	511.95
20-30	543.92
30-40	239.32
40-50	110.57
50-60	80.73
60-70	49.31
70-80	18.12
80-90	3.72
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

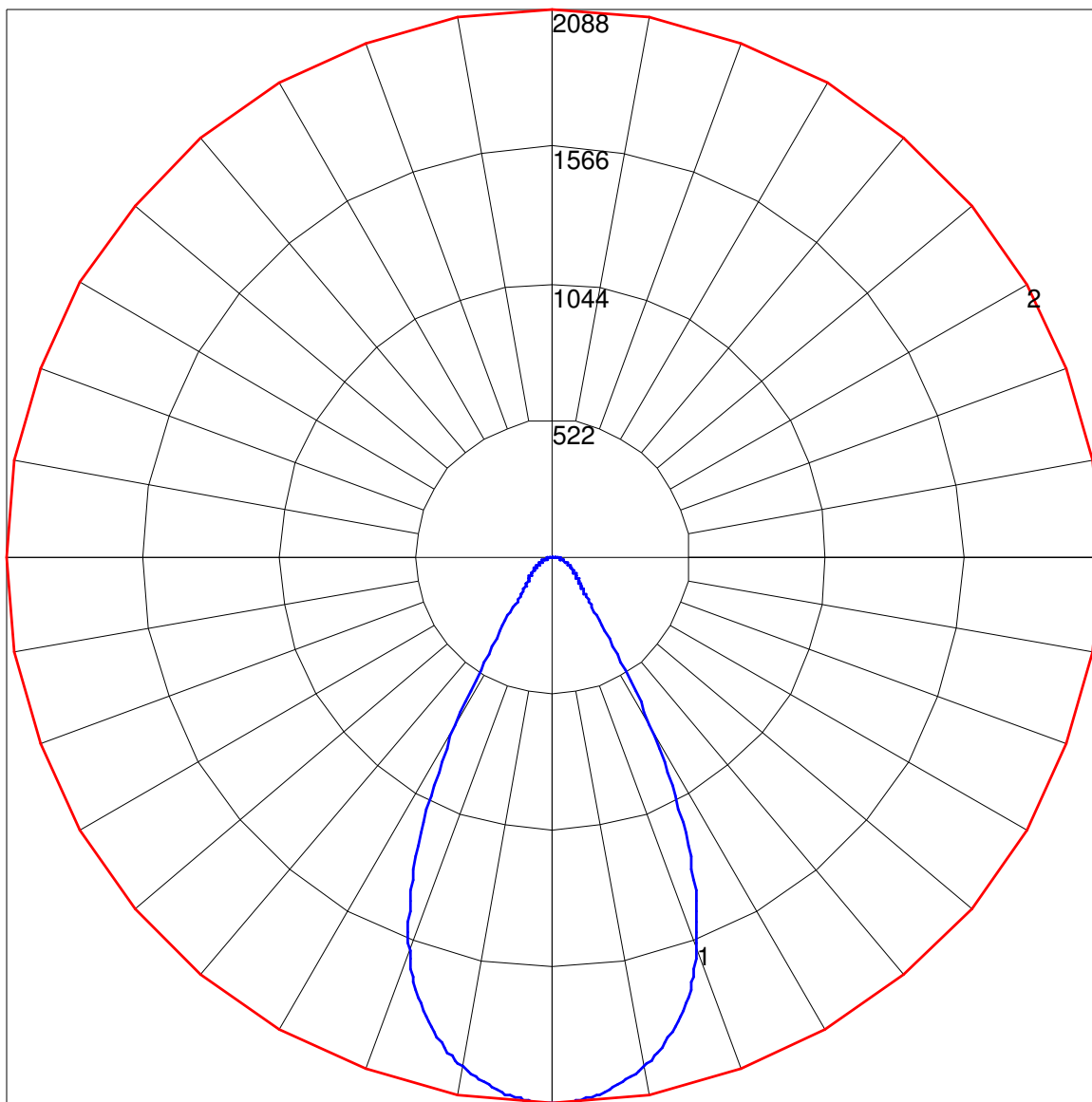
X=2H	Y=2H	20.9	22.0	21.3	22.3	22.6	20.9	22.0	21.3	22.3	22.6
	3H	21.9	22.9	22.3	23.2	23.6	21.9	22.9	22.3	23.2	23.6
	4H	22.1	23.0	22.5	23.4	23.8	22.1	23.0	22.5	23.4	23.8
	6H	22.1	23.0	22.6	23.4	23.7	22.1	23.0	22.6	23.4	23.7
	8H	22.1	22.9	22.6	23.3	23.7	22.1	22.9	22.6	23.3	23.7
	12H	22.1	22.9	22.6	23.3	23.7	22.1	22.9	22.6	23.3	23.7

UGR Viewed Endwise

4H	2H	21.2	22.1	21.6	22.5	22.9	21.2	22.1	21.6	22.5	22.9
	3H	22.4	23.1	22.8	23.6	24.0	22.4	23.1	22.8	23.6	24.0
	4H	22.6	23.3	23.1	23.7	24.2	22.6	23.3	23.1	23.7	24.2
	6H	22.7	23.3	23.2	23.7	24.2	22.7	23.3	23.2	23.7	24.2
	8H	22.7	23.2	23.2	23.7	24.2	22.7	23.2	23.2	23.7	24.2
	12H	22.7	23.2	23.2	23.7	24.1	22.7	23.2	23.2	23.7	24.1
8H	4H	22.6	23.2	23.1	23.6	24.1	22.6	23.2	23.1	23.6	24.1
	6H	22.8	23.2	23.3	23.7	24.2	22.8	23.2	23.3	23.7	24.2
	8H	22.8	23.2	23.3	23.7	24.2	22.8	23.2	23.3	23.7	24.2
	12H	22.8	23.1	23.3	23.6	24.2	22.8	23.1	23.3	23.6	24.2
12H	4H	22.6	23.0	23.1	23.5	24.0	22.6	23.0	23.1	23.5	24.0
	6H	22.7	23.1	23.3	23.6	24.1	22.7	23.1	23.3	23.6	24.1
	8H	22.8	23.1	23.3	23.6	24.2	22.8	23.1	23.3	23.6	24.2

Maximum UGR = 24.2

POLAR GRAPH



Maximum Candela = 2087.764 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.)