

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L14-835-DIM-UNV-LW-OF_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM 13257153.01

[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-LW-OF_

[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, Vandal-Resistant

[_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1409
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	81
Total Luminaire Watts	17.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.86
Spacing Criterion (90-270)	0.86
Spacing Criterion (Diagonal)	0.78
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	58118	58118	58118
55	50758	50758	50758
65	43360	43360	43360
75	34981	34981	34981
85	19594	19594	19594

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CANDELA TABULATION

	<u>0</u>
0.0	1662.534
0.5	1661.678
1.0	1661.678
1.5	1660.821
2.0	1659.965
2.5	1657.395
3.0	1654.826
3.5	1652.256
4.0	1648.830
4.5	1644.547
5.0	1640.265
5.5	1635.982
6.0	1631.699
6.5	1626.560
7.0	1621.421
7.5	1616.282
8.0	1610.286
8.5	1604.290
9.0	1597.438
9.5	1590.586
10.0	1582.877
10.5	1574.311
11.0	1565.746
11.5	1556.324
12.0	1546.902
12.5	1535.767
13.0	1524.632
13.5	1512.641
14.0	1499.793
14.5	1486.088
15.0	1471.527
15.5	1455.253
16.0	1438.979
16.5	1420.992
17.0	1401.291
17.5	1381.591
18.0	1359.321
18.5	1336.195
19.0	1310.499
19.5	1283.089
20.0	1254.824
20.5	1223.989
21.0	1192.297
21.5	1158.035
22.0	1122.061
22.5	1085.230
23.0	1046.686
23.5	1007.285
24.0	967.028
24.5	925.914
25.0	883.944
25.5	842.402
26.0	800.346
26.5	758.719

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CANDELA TABULATION - (Cont.)

27.0	717.691
27.5	677.519
28.0	638.204
28.5	599.831
29.0	562.658
29.5	526.426
30.0	492.422
30.5	460.302
31.0	429.981
31.5	401.715
32.0	375.248
32.5	350.665
33.0	328.139
33.5	307.496
34.0	288.738
34.5	271.607
35.0	256.018
35.5	241.885
36.0	229.123
36.5	217.731
37.0	207.453
37.5	198.288
38.0	190.065
38.5	182.613
39.0	175.932
39.5	169.937
40.0	164.455
40.5	159.572
41.0	155.118
41.5	151.007
42.0	147.238
42.5	143.727
43.0	140.557
43.5	137.645
44.0	134.904
44.5	132.335
45.0	129.851
45.5	127.538
46.0	125.311
46.5	123.170
47.0	121.114
47.5	119.058
48.0	117.088
48.5	115.118
49.0	113.148
49.5	111.264
50.0	109.465
50.5	107.666
51.0	105.782
51.5	104.069
52.0	102.270
52.5	100.557
53.0	98.844
53.5	97.131
54.0	95.418
54.5	93.705

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CANDELA TABULATION - (Cont.)

55.0	91.992
55.5	90.279
56.0	88.651
56.5	86.853
57.0	85.225
57.5	83.512
58.0	81.799
58.5	80.086
59.0	78.373
59.5	76.660
60.0	74.947
60.5	73.234
61.0	71.521
61.5	69.722
62.0	68.095
62.5	66.381
63.0	64.583
63.5	62.870
64.0	61.157
64.5	59.529
65.0	57.902
65.5	56.274
66.0	54.647
66.5	53.105
67.0	51.478
67.5	50.022
68.0	48.480
68.5	47.024
69.0	45.568
69.5	44.026
70.0	42.570
70.5	41.114
71.0	39.743
71.5	38.287
72.0	36.831
72.5	35.461
73.0	34.004
73.5	32.634
74.0	31.349
74.5	29.979
75.0	28.608
75.5	27.323
76.0	26.039
76.5	24.754
77.0	23.555
77.5	22.270
78.0	21.071
78.5	19.872
79.0	18.672
79.5	17.473
80.0	16.360
80.5	15.161
81.0	14.047
81.5	12.934
82.0	11.820
82.5	10.707

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CANDELA TABULATION - (Cont.)

83.0	9.679
83.5	8.565
84.0	7.538
84.5	6.424
85.0	5.396
85.5	4.283
86.0	3.169
86.5	2.398
87.0	1.713
87.5	1.028
88.0	0.685
88.5	0.514
89.0	0.343
89.5	0.257
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
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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
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160.0	0.000
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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	562.07	N.A.	39.90
0-30	958.24	N.A.	68.00
0-40	1130.36	N.A.	80.20
0-60	1314.34	N.A.	93.30
0-80	1402.4	N.A.	99.50
0-90	1409.18	N.A.	100.00
10-90	1254.4	N.A.	89.00
20-40	568.29	N.A.	40.30
20-50	670.00	N.A.	47.50
40-70	241.55	N.A.	17.10
60-80	88.06	N.A.	6.20
70-80	30.49	N.A.	2.20
80-90	6.79	N.A.	0.50
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	1409.18	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	154.79
10-20	407.28
20-30	396.17
30-40	172.12
40-50	101.71
50-60	82.27
60-70	57.57
70-80	30.49
80-90	6.79
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	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76
4	94	86	80	75	93	85	79	75	83	78	74	81	76	73	79	75	72	70
5	89	80	74	69	88	79	73	69	77	72	68	76	71	68	74	70	67	65
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	63	61
7	81	71	64	60	79	70	64	60	69	63	59	67	63	59	66	62	59	57
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54
9	73	63	57	53	72	63	57	53	62	56	52	61	56	52	60	55	52	51
10	70	60	54	50	69	59	54	50	58	53	49	58	53	49	57	52	49	48

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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	21.9	23.0	22.2	23.4	23.7	21.9	23.0	22.2	23.4	23.7
	3H	23.4	24.4	23.8	24.7	25.1	23.4	24.4	23.8	24.7	25.1
	4H	23.9	24.9	24.3	25.2	25.6	23.9	24.9	24.3	25.2	25.6
	6H	24.2	25.1	24.6	25.5	25.9	24.2	25.1	24.6	25.5	25.9
	8H	24.3	25.2	24.7	25.6	26.0	24.3	25.2	24.7	25.6	26.0
	12H	24.3	25.2	24.8	25.5	26.0	24.3	25.2	24.8	25.5	26.0

UGR Viewed Endwise

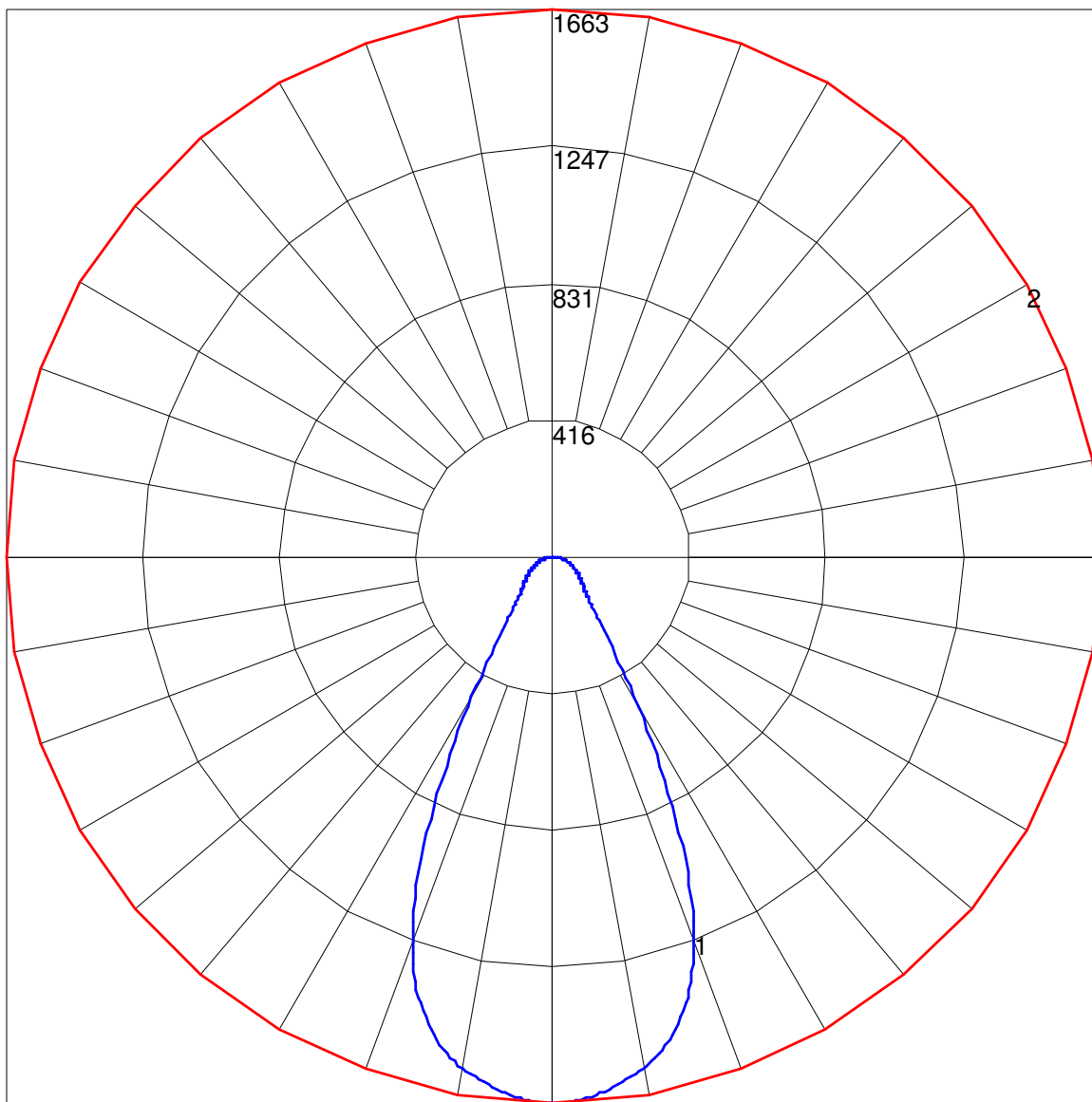
4H	2H	22.4	23.3	22.8	23.7	24.1	22.4	23.3	22.8	23.7	24.1
	3H	24.0	24.8	24.4	25.2	25.6	24.0	24.8	24.4	25.2	25.6
	4H	24.7	25.4	25.1	25.8	26.2	24.7	25.4	25.1	25.8	26.2
	6H	25.1	25.7	25.6	26.2	26.7	25.1	25.7	25.6	26.2	26.7
	8H	25.2	25.8	25.7	26.3	26.7	25.2	25.8	25.7	26.3	26.7
	12H	25.3	25.8	25.8	26.3	26.8	25.3	25.8	25.8	26.3	26.8

8H	4H	24.9	25.4	25.3	25.9	26.4	24.9	25.4	25.3	25.9	26.4
	6H	25.4	25.9	25.9	26.4	26.9	25.4	25.9	25.9	26.4	26.9
	8H	25.6	26.0	26.1	26.5	27.0	25.6	26.0	26.1	26.5	27.0
	12H	25.7	26.1	26.2	26.6	27.1	25.7	26.1	26.2	26.6	27.1

12H	4H	24.8	25.4	25.3	25.8	26.3	24.8	25.4	25.3	25.8	26.3
	6H	25.4	25.9	26.0	26.3	26.9	25.4	25.9	26.0	26.3	26.9
	8H	25.7	26.0	26.2	26.5	27.1	25.7	26.0	26.2	26.5	27.1

Maximum UGR = 27.1

POLAR GRAPH



Maximum Candela = 1662.534 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.)