

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L14-830-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-L14-830-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	1381
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	80
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	56955	56955	56955
55	49743	49743	49743
65	42493	42493	42493
75	34282	34282	34282
85	19202	19202	19202

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CANDELA TABULATION

	<u>0</u>
0.0	1629.284
0.5	1628.444
1.0	1628.444
1.5	1627.605
2.0	1626.766
2.5	1624.247
3.0	1621.729
3.5	1619.211
4.0	1615.853
4.5	1611.656
5.0	1607.459
5.5	1603.262
6.0	1599.065
6.5	1594.029
7.0	1588.992
7.5	1583.956
8.0	1578.080
8.5	1572.204
9.0	1565.489
9.5	1558.774
10.0	1551.219
10.5	1542.825
11.0	1534.431
11.5	1525.198
12.0	1515.964
12.5	1505.052
13.0	1494.140
13.5	1482.388
14.0	1469.797
14.5	1456.366
15.0	1442.097
15.5	1426.148
16.0	1410.199
16.5	1392.572
17.0	1373.265
17.5	1353.959
18.0	1332.135
18.5	1309.471
19.0	1284.289
19.5	1257.428
20.0	1229.727
20.5	1199.509
21.0	1168.451
21.5	1134.875
22.0	1099.620
22.5	1063.525
23.0	1025.752
23.5	987.139
24.0	947.687
24.5	907.396
25.0	866.265
25.5	825.554
26.0	784.339
26.5	743.544

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CANDELA TABULATION - (Cont.)

27.0	703.337
27.5	663.969
28.0	625.440
28.5	587.835
29.0	551.405
29.5	515.898
30.0	482.574
30.5	451.096
31.0	421.381
31.5	393.681
32.0	367.743
32.5	343.652
33.0	321.576
33.5	301.346
34.0	282.963
34.5	266.175
35.0	250.898
35.5	237.048
36.0	224.541
36.5	213.377
37.0	203.304
37.5	194.322
38.0	186.264
38.5	178.961
39.0	172.414
39.5	166.538
40.0	161.166
40.5	156.381
41.0	152.016
41.5	147.987
42.0	144.294
42.5	140.852
43.0	137.746
43.5	134.892
44.0	132.206
44.5	129.688
45.0	127.254
45.5	124.987
46.0	122.805
46.5	120.706
47.0	118.692
47.5	116.677
48.0	114.747
48.5	112.816
49.0	110.885
49.5	109.039
50.0	107.276
50.5	105.513
51.0	103.666
51.5	101.988
52.0	100.225
52.5	98.546
53.0	96.867
53.5	95.188
54.0	93.510
54.5	91.831

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CANDELA TABULATION - (Cont.)

55.0	90.152
55.5	88.473
56.0	86.878
56.5	85.116
57.0	83.521
57.5	81.842
58.0	80.163
58.5	78.484
59.0	76.805
59.5	75.127
60.0	73.448
60.5	71.769
61.0	70.090
61.5	68.328
62.0	66.733
62.5	65.054
63.0	63.291
63.5	61.612
64.0	59.933
64.5	58.339
65.0	56.744
65.5	55.149
66.0	53.554
66.5	52.043
67.0	50.448
67.5	49.021
68.0	47.510
68.5	46.083
69.0	44.656
69.5	43.145
70.0	41.718
70.5	40.291
71.0	38.948
71.5	37.521
72.0	36.094
72.5	34.751
73.0	33.324
73.5	31.981
74.0	30.722
74.5	29.379
75.0	28.036
75.5	26.777
76.0	25.518
76.5	24.259
77.0	23.084
77.5	21.825
78.0	20.649
78.5	19.474
79.0	18.299
79.5	17.124
80.0	16.033
80.5	14.857
81.0	13.766
81.5	12.675
82.0	11.584
82.5	10.493

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CANDELA TABULATION - (Cont.)

83.0	9.485
83.5	8.394
84.0	7.387
84.5	6.296
85.0	5.288
85.5	4.197
86.0	3.106
86.5	2.350
87.0	1.679
87.5	1.007
88.0	0.672
88.5	0.504
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
129.5	0.000
130.0	0.000
130.5	0.000
131.0	0.000
131.5	0.000
132.0	0.000
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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	550.82	N.A.	39.90
0-30	939.07	N.A.	68.00
0-40	1107.75	N.A.	80.20
0-60	1288.05	N.A.	93.30
0-80	1374.35	N.A.	99.50
0-90	1381.00	N.A.	100.00
10-90	1229.31	N.A.	89.00
20-40	556.93	N.A.	40.30
20-50	656.60	N.A.	47.50
40-70	236.72	N.A.	17.10
60-80	86.30	N.A.	6.20
70-80	29.88	N.A.	2.20
80-90	6.65	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	1381.00	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	151.69
10-20	399.13
20-30	388.25
30-40	168.68
40-50	99.67
50-60	80.63
60-70	56.42
70-80	29.88
80-90	6.65
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	97	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

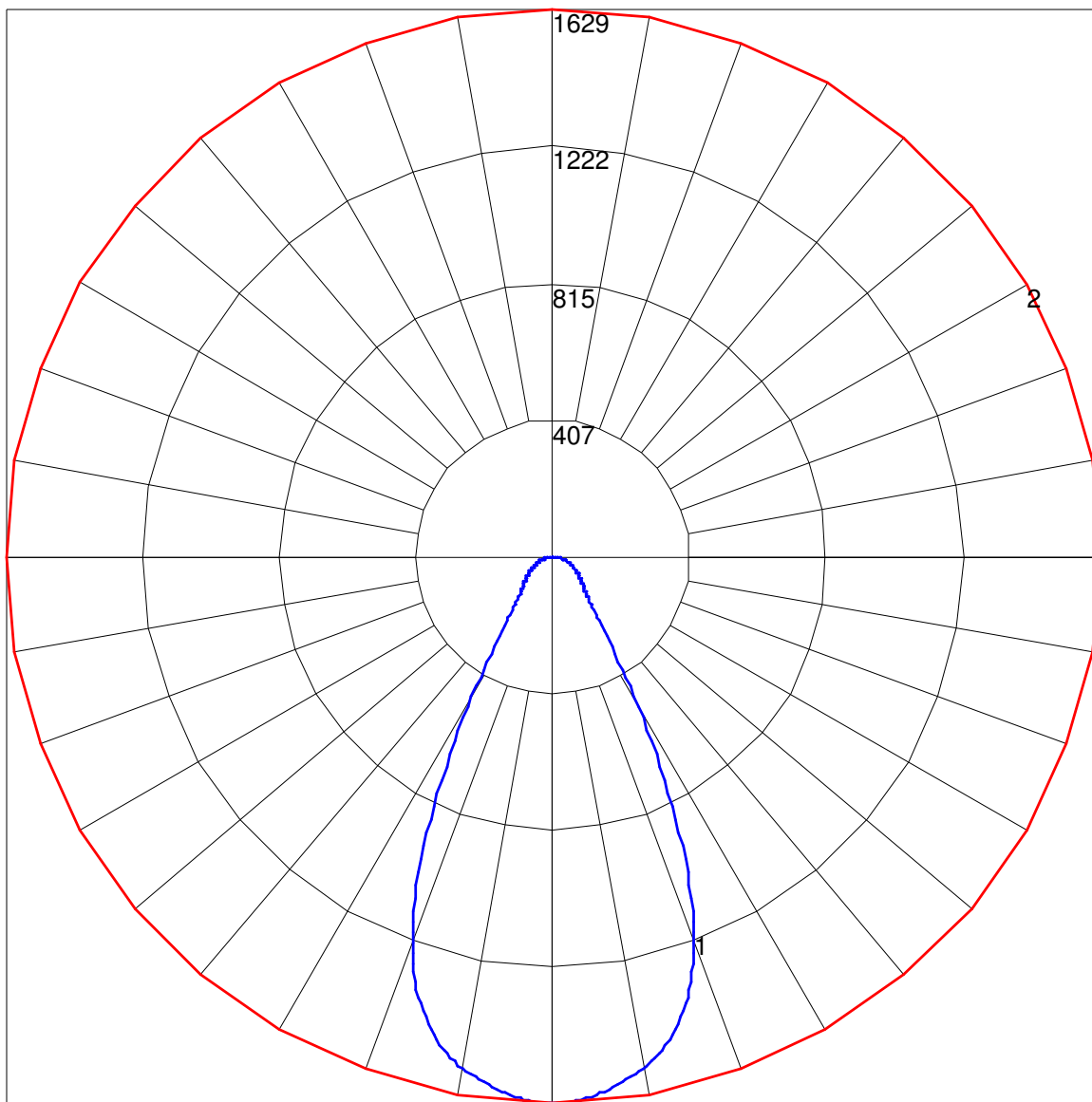
X=2H	Y=2H	21.8	22.9	22.1	23.3	23.6	21.8	22.9	22.1	23.3	23.6
	3H	23.3	24.3	23.7	24.6	25.0	23.3	24.3	23.7	24.6	25.0
	4H	23.8	24.8	24.2	25.1	25.5	23.8	24.8	24.2	25.1	25.5
	6H	24.1	25.0	24.5	25.4	25.8	24.1	25.0	24.5	25.4	25.8
	8H	24.2	25.1	24.6	25.5	25.9	24.2	25.1	24.6	25.5	25.9
	12H	24.2	25.1	24.7	25.4	25.9	24.2	25.1	24.7	25.4	25.9

UGR Viewed Endwise

4H	2H	22.3	23.2	22.7	23.6	24.0	22.3	23.2	22.7	23.6	24.0
	3H	23.9	24.7	24.3	25.1	25.6	23.9	24.7	24.3	25.1	25.6
	4H	24.6	25.3	25.0	25.7	26.2	24.6	25.3	25.0	25.7	26.2
	6H	25.0	25.6	25.5	26.1	26.6	25.0	25.6	25.5	26.1	26.6
	8H	25.1	25.7	25.6	26.2	26.6	25.1	25.7	25.6	26.2	26.6
	12H	25.2	25.7	25.7	26.2	26.7	25.2	25.7	25.7	26.2	26.7
8H	4H	24.8	25.3	25.2	25.8	26.3	24.8	25.3	25.2	25.8	26.3
	6H	25.3	25.8	25.8	26.3	26.8	25.3	25.8	25.8	26.3	26.8
	8H	25.5	25.9	26.0	26.4	26.9	25.5	25.9	26.0	26.4	26.9
	12H	25.6	26.0	26.1	26.5	27.0	25.6	26.0	26.1	26.5	27.0
12H	4H	24.7	25.3	25.2	25.7	26.2	24.7	25.3	25.2	25.7	26.2
	6H	25.3	25.8	25.9	26.2	26.8	25.3	25.8	25.9	26.2	26.8
	8H	25.6	25.9	26.1	26.4	27.0	25.6	25.9	26.1	26.4	27.0

Maximum UGR = 27.0

POLAR GRAPH



Maximum Candela = 1629.284 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.)