

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L14-850-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-L14-850-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	1395
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)	0.88
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	50023	50023	50023
55	39583	39583	39583
65	29589	29589	29589
75	15406	15406	15406
85	9336	9336	9336

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CANDELA TABULATION

	<u>0</u>
0.0	1662.775
0.5	1662.775
1.0	1661.918
1.5	1661.061
2.0	1661.061
2.5	1659.347
3.0	1656.776
3.5	1653.347
4.0	1649.919
4.5	1646.490
5.0	1641.348
5.5	1637.062
6.0	1631.920
6.5	1625.920
7.0	1619.920
7.5	1613.921
8.0	1607.921
8.5	1601.064
9.0	1593.350
9.5	1586.493
10.0	1578.780
10.5	1570.209
11.0	1560.780
11.5	1551.352
12.0	1541.067
12.5	1530.782
13.0	1519.640
13.5	1507.640
14.0	1494.784
14.5	1481.927
15.0	1467.356
15.5	1452.786
16.0	1436.501
16.5	1420.216
17.0	1403.074
17.5	1385.075
18.0	1366.219
18.5	1345.648
19.0	1324.221
19.5	1301.079
20.0	1277.080
20.5	1252.224
21.0	1225.654
21.5	1198.227
22.0	1168.228
22.5	1138.230
23.0	1106.517
23.5	1073.947
24.0	1039.663
24.5	1005.379
25.0	970.238
25.5	933.383
26.0	895.670
26.5	857.958

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CANDELA TABULATION - (Cont.)

27.0	820.503
27.5	782.876
28.0	744.906
28.5	707.108
29.0	668.453
29.5	629.540
30.0	590.971
30.5	553.001
31.0	515.546
31.5	479.376
32.0	444.578
32.5	411.665
33.0	381.153
33.5	352.868
34.0	326.555
34.5	302.471
35.0	280.615
35.5	260.559
36.0	242.388
36.5	226.103
37.0	211.618
37.5	198.676
38.0	186.934
38.5	176.477
39.0	167.306
39.5	159.249
40.0	152.050
40.5	145.793
41.0	140.222
41.5	135.250
42.0	130.794
42.5	126.851
43.0	123.251
43.5	120.080
44.0	117.080
44.5	114.337
45.0	111.766
45.5	109.280
46.0	106.966
46.5	104.652
47.0	102.509
47.5	100.366
48.0	98.224
48.5	96.167
49.0	94.110
49.5	92.053
50.0	90.081
50.5	88.196
51.0	86.224
51.5	84.339
52.0	82.539
52.5	80.653
53.0	78.853
53.5	77.053
54.0	75.253
54.5	73.454

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CANDELA TABULATION - (Cont.)

55.0	71.739
55.5	70.025
56.0	68.311
56.5	66.597
57.0	64.883
57.5	63.254
58.0	61.540
58.5	59.911
59.0	58.283
59.5	56.740
60.0	55.112
60.5	53.483
61.0	51.855
61.5	50.312
62.0	48.683
62.5	47.141
63.0	45.598
63.5	44.055
64.0	42.512
64.5	40.969
65.0	39.512
65.5	38.055
66.0	36.598
66.5	35.055
67.0	33.684
67.5	32.313
68.0	30.856
68.5	29.484
69.0	28.113
69.5	26.742
70.0	25.456
70.5	24.085
71.0	22.799
71.5	21.428
72.0	20.142
72.5	18.856
73.0	17.571
73.5	16.285
74.0	15.085
74.5	13.799
75.0	12.599
75.5	11.485
76.0	10.371
76.5	9.514
77.0	8.742
77.5	8.057
78.0	7.542
78.5	7.114
79.0	6.771
79.5	6.428
80.0	6.000
80.5	5.657
81.0	5.314
81.5	4.971
82.0	4.543
82.5	4.200

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CANDELA TABULATION - (Cont.)

83.0	3.943
83.5	3.600
84.0	3.257
84.5	2.914
85.0	2.571
85.5	2.314
86.0	1.971
86.5	1.714
87.0	1.371
87.5	1.114
88.0	0.857
88.5	0.600
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
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
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	562.40	N.A.	40.30
0-30	995.60	N.A.	71.40
0-40	1186.2	N.A.	85.00
0-60	1338.56	N.A.	95.90
0-80	1392.26	N.A.	99.80
0-90	1395.23	N.A.	100.00
10-90	1240.56	N.A.	88.90
20-40	623.80	N.A.	44.70
20-50	711.86	N.A.	51.00
40-70	191.63	N.A.	13.70
60-80	53.70	N.A.	3.80
70-80	14.43	N.A.	1.00
80-90	2.97	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	1395.23	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	154.66
10-20	407.74
20-30	433.20
30-40	190.60
40-50	88.06
50-60	64.30
60-70	39.27
70-80	14.43
80-90	2.97
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

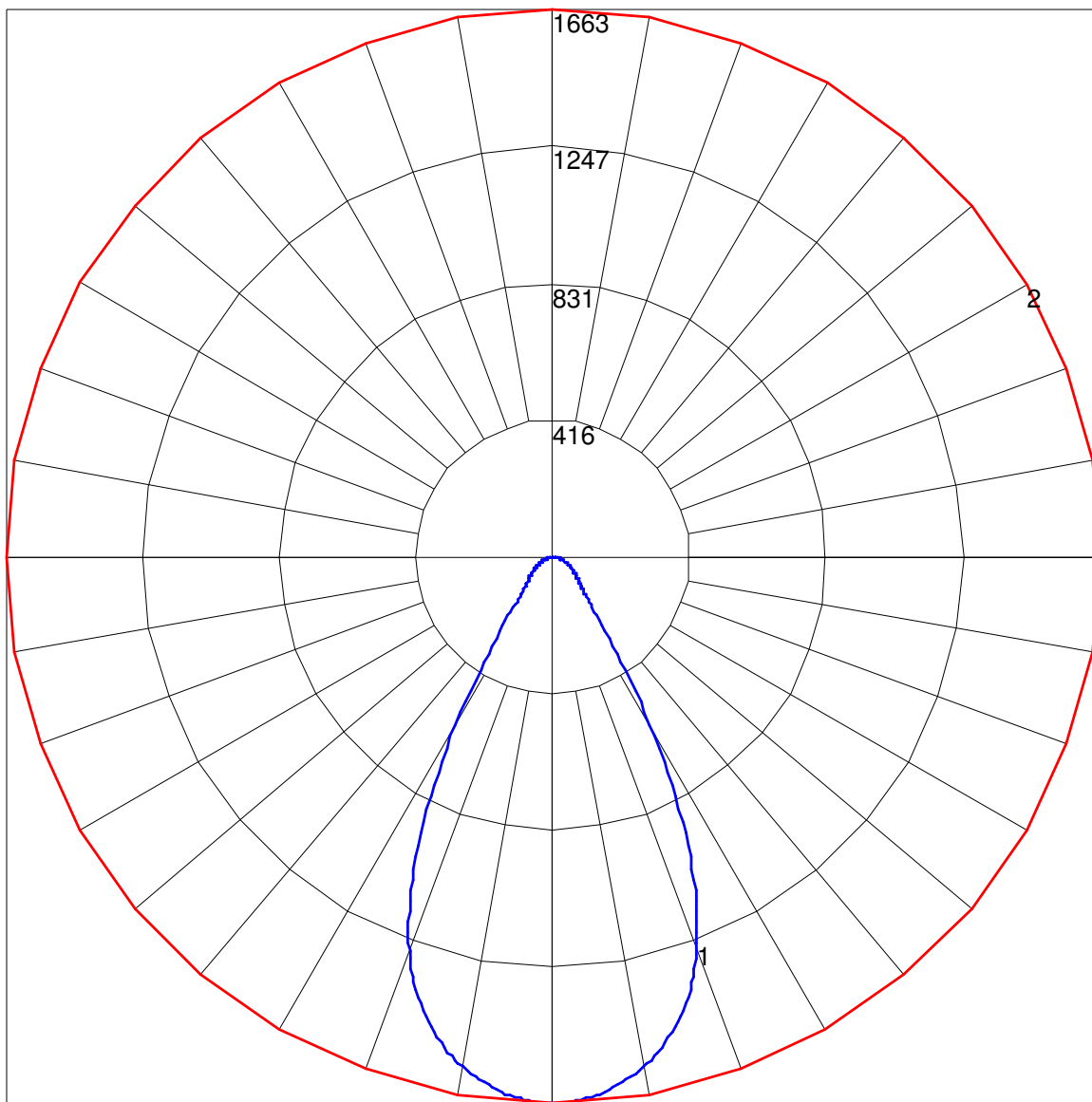
X=2H	Y=2H	20.1	21.2	20.5	21.5	21.8	20.1	21.2	20.5	21.5	21.8
	3H	21.1	22.1	21.5	22.4	22.8	21.1	22.1	21.5	22.4	22.8
	4H	21.3	22.2	21.7	22.6	23.0	21.3	22.2	21.7	22.6	23.0
	6H	21.3	22.2	21.8	22.6	23.0	21.3	22.2	21.8	22.6	23.0
	8H	21.3	22.1	21.8	22.5	22.9	21.3	22.1	21.8	22.5	22.9
	12H	21.3	22.1	21.8	22.5	22.9	21.3	22.1	21.8	22.5	22.9

UGR Viewed Endwise

4H	2H	20.4	21.3	20.8	21.7	22.1	20.4	21.3	20.8	21.7	22.1
	3H	21.6	22.3	22.0	22.8	23.2	21.6	22.3	22.0	22.8	23.2
	4H	21.8	22.5	22.3	22.9	23.4	21.8	22.5	22.3	22.9	23.4
	6H	21.9	22.5	22.4	22.9	23.4	21.9	22.5	22.4	22.9	23.4
	8H	21.9	22.4	22.4	22.9	23.4	21.9	22.4	22.4	22.9	23.4
	12H	21.9	22.4	22.4	22.9	23.3	21.9	22.4	22.4	22.9	23.3
8H	4H	21.8	22.4	22.3	22.8	23.3	21.8	22.4	22.3	22.8	23.3
	6H	22.0	22.4	22.5	22.9	23.4	22.0	22.4	22.5	22.9	23.4
	8H	22.0	22.4	22.5	22.9	23.4	22.0	22.4	22.5	22.9	23.4
	12H	22.0	22.3	22.5	22.8	23.4	22.0	22.3	22.5	22.8	23.4
12H	4H	21.8	22.2	22.3	22.7	23.2	21.8	22.2	22.3	22.7	23.2
	6H	21.9	22.3	22.5	22.8	23.3	21.9	22.3	22.5	22.8	23.3
	8H	22.0	22.3	22.5	22.8	23.4	22.0	22.3	22.5	22.8	23.4

Maximum UGR = 23.4

POLAR GRAPH



Maximum Candela = 1662.775 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.)