

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L14-840-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-L14-840-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	1382
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)	0.88
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	49533	49533	49533
55	39195	39195	39195
65	29299	29299	29299
75	15255	15255	15255
85	9245	9245	9245

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V2DR-L14-840-DIM-UNV-RW-OF-WH_.IES

CANDELA TABULATION

	<u>0</u>
0.0	1646.474
0.5	1646.474
1.0	1645.625
1.5	1644.776
2.0	1644.776
2.5	1643.079
3.0	1640.533
3.5	1637.138
4.0	1633.743
4.5	1630.348
5.0	1625.256
5.5	1621.013
6.0	1615.921
6.5	1609.980
7.0	1604.039
7.5	1598.098
8.0	1592.157
8.5	1585.367
9.0	1577.729
9.5	1570.940
10.0	1563.301
10.5	1554.814
11.0	1545.479
11.5	1536.143
12.0	1525.959
12.5	1515.774
13.0	1504.741
13.5	1492.859
14.0	1480.129
14.5	1467.398
15.0	1452.971
15.5	1438.543
16.0	1422.417
16.5	1406.292
17.0	1389.318
17.5	1371.496
18.0	1352.824
18.5	1332.456
19.0	1311.238
19.5	1288.323
20.0	1264.560
20.5	1239.947
21.0	1213.638
21.5	1186.479
22.0	1156.775
22.5	1127.071
23.0	1095.669
23.5	1063.418
24.0	1029.470
24.5	995.522
25.0	960.726
25.5	924.232
26.0	886.889
26.5	849.546

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V2DR-L14-840-DIM-UNV-RW-OF-WH_.IES

CANDELA TABULATION - (Cont.)

27.0	812.458
27.5	775.201
28.0	737.603
28.5	700.176
29.0	661.899
29.5	623.369
30.0	585.177
30.5	547.580
31.0	510.492
31.5	474.677
32.0	440.220
32.5	407.630
33.0	377.416
33.5	349.409
34.0	323.354
34.5	299.505
35.0	277.864
35.5	258.004
36.0	240.012
36.5	223.886
37.0	209.543
37.5	196.728
38.0	185.101
38.5	174.747
39.0	165.666
39.5	157.688
40.0	150.559
40.5	144.363
41.0	138.847
41.5	133.925
42.0	129.511
42.5	125.607
43.0	122.043
43.5	118.903
44.0	115.932
44.5	113.216
45.0	110.670
45.5	108.209
46.0	105.917
46.5	103.626
47.0	101.504
47.5	99.383
48.0	97.261
48.5	95.224
49.0	93.187
49.5	91.150
50.0	89.198
50.5	87.331
51.0	85.379
51.5	83.512
52.0	81.730
52.5	79.862
53.0	78.080
53.5	76.298
54.0	74.516
54.5	72.733

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V2DR-L14-840-DIM-UNV-RW-OF-WH_.IES

CANDELA TABULATION - (Cont.)

55.0	71.036
55.5	69.339
56.0	67.641
56.5	65.944
57.0	64.246
57.5	62.634
58.0	60.937
58.5	59.324
59.0	57.711
59.5	56.184
60.0	54.571
60.5	52.959
61.0	51.346
61.5	49.819
62.0	48.206
62.5	46.678
63.0	45.151
63.5	43.623
64.0	42.095
64.5	40.568
65.0	39.125
65.5	37.682
66.0	36.239
66.5	34.712
67.0	33.354
67.5	31.996
68.0	30.553
68.5	29.195
69.0	27.837
69.5	26.479
70.0	25.206
70.5	23.848
71.0	22.575
71.5	21.217
72.0	19.944
72.5	18.671
73.0	17.398
73.5	16.125
74.0	14.937
74.5	13.664
75.0	12.476
75.5	11.373
76.0	10.269
76.5	9.421
77.0	8.657
77.5	7.978
78.0	7.469
78.5	7.044
79.0	6.705
79.5	6.365
80.0	5.941
80.5	5.601
81.0	5.262
81.5	4.922
82.0	4.498
82.5	4.159

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V2DR-L14-840-DIM-UNV-RW-OF-WH_.IES

CANDELA TABULATION - (Cont.)

83.0	3.904
83.5	3.565
84.0	3.225
84.5	2.886
85.0	2.546
85.5	2.291
86.0	1.952
86.5	1.697
87.0	1.358
87.5	1.103
88.0	0.849
88.5	0.594
89.0	0.339
89.5	0.255
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V2DR-L14-840-DIM-UNV-RW-OF-WH_.IES

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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V2DR-L14-840-DIM-UNV-RW-OF-WH_.IES

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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V2DR-L14-840-DIM-UNV-RW-OF-WH_.IES

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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V2DR-L14-840-DIM-UNV-RW-OF-WH_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	556.89	N.A.	40.30
0-30	985.84	N.A.	71.40
0-40	1174.57	N.A.	85.00
0-60	1325.44	N.A.	95.90
0-80	1378.61	N.A.	99.80
0-90	1381.55	N.A.	100.00
10-90	1228.4	N.A.	88.90
20-40	617.69	N.A.	44.70
20-50	704.88	N.A.	51.00
40-70	189.75	N.A.	13.70
60-80	53.17	N.A.	3.80
70-80	14.29	N.A.	1.00
80-90	2.94	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	1381.55	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	153.15
10-20	403.74
20-30	428.95
30-40	188.74
40-50	87.20
50-60	63.67
60-70	38.89
70-80	14.29
80-90	2.94
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V2DR-L14-840-DIM-UNV-RW-OF-WH_.IES

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	78
4	96	88	82	78	94	87	81	77	84	80	76	82	78	75	81	77	74	73
5	91	82	76	71	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	70	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	54	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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V2DR-L14-840-DIM-UNV-RW-OF-WH_.IES

UGR TABLE - CORRECTED

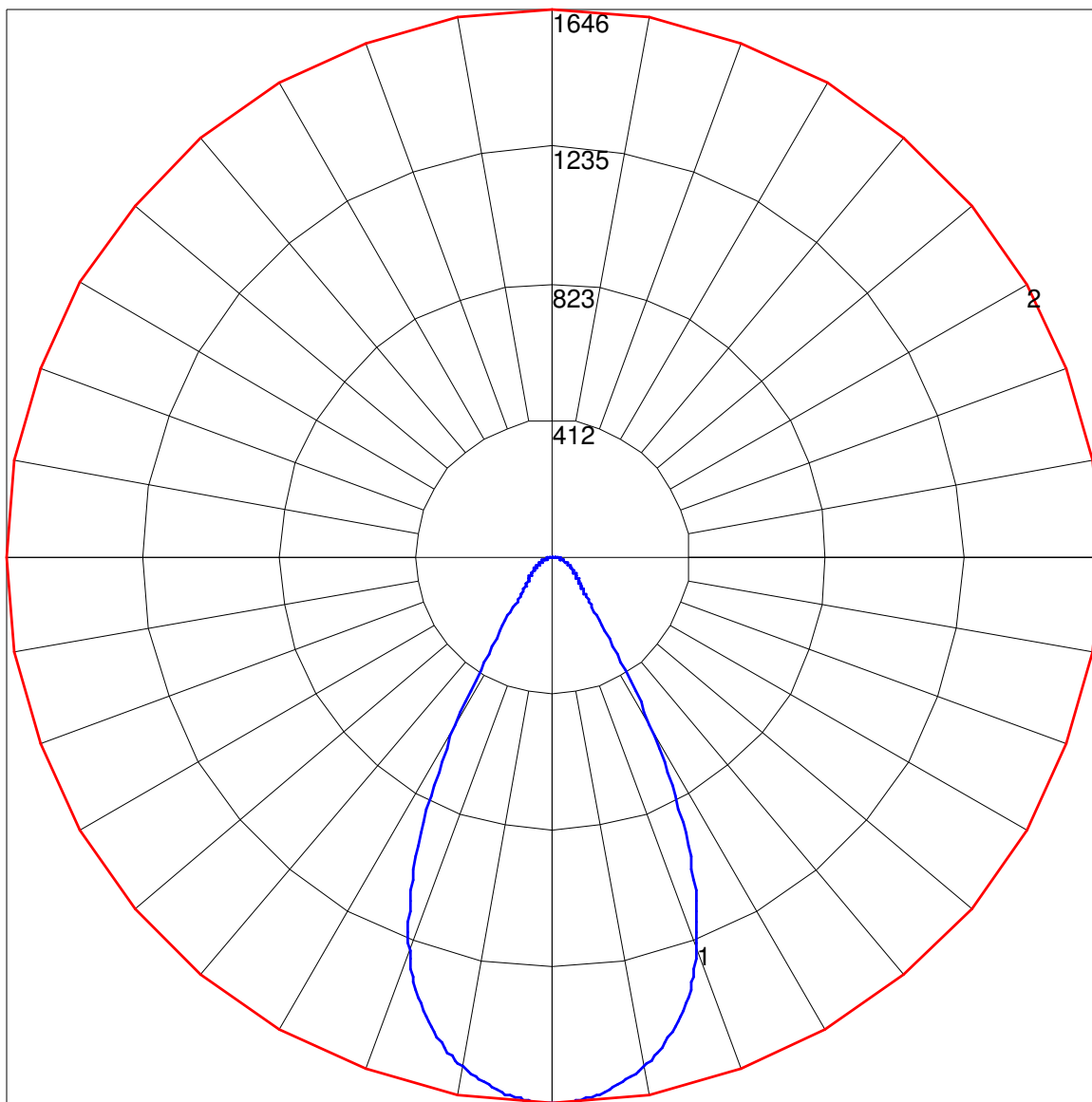
Reflectances

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					UGR Viewed Endwise				
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
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	22.3	22.3	22.7	23.2	21.8	22.3	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 = 1646.474 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.)