

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L14-827-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-L14-827-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	1258
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	73
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	45119	45119	45119
55	35703	35703	35703
65	26688	26688	26688
75	13896	13896	13896
85	8421	8421	8421

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V2DR-L14-827-DIM-UNV-RW-OF-WH_.IES

CANDELA TABULATION

	<u>0</u>
0.0	1499.758
0.5	1499.758
1.0	1498.985
1.5	1498.212
2.0	1498.212
2.5	1496.666
3.0	1494.347
3.5	1491.254
4.0	1488.162
4.5	1485.070
5.0	1480.431
5.5	1476.566
6.0	1471.928
6.5	1466.516
7.0	1461.105
7.5	1455.693
8.0	1450.282
8.5	1444.097
9.0	1437.139
9.5	1430.955
10.0	1423.997
10.5	1416.266
11.0	1407.763
11.5	1399.259
12.0	1389.982
12.5	1380.705
13.0	1370.655
13.5	1359.832
14.0	1348.236
14.5	1336.640
15.0	1323.498
15.5	1310.356
16.0	1295.667
16.5	1280.979
17.0	1265.518
17.5	1249.283
18.0	1232.276
18.5	1213.722
19.0	1194.395
19.5	1173.522
20.0	1151.876
20.5	1129.457
21.0	1105.492
21.5	1080.754
22.0	1053.696
22.5	1026.639
23.0	998.035
23.5	968.658
24.0	937.735
24.5	906.813
25.0	875.117
25.5	841.875
26.0	807.859
26.5	773.844

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V2DR-L14-827-DIM-UNV-RW-OF-WH_.IES

CANDELA TABULATION - (Cont.)

27.0	740.061
27.5	706.123
28.0	671.876
28.5	637.784
29.0	602.918
29.5	567.821
30.0	533.033
30.5	498.786
31.0	465.002
31.5	432.379
32.0	400.992
32.5	371.306
33.0	343.785
33.5	318.273
34.0	294.540
34.5	272.817
35.0	253.104
35.5	235.014
36.0	218.625
36.5	203.936
37.0	190.871
37.5	179.198
38.0	168.607
38.5	159.175
39.0	150.904
39.5	143.637
40.0	137.143
40.5	131.499
41.0	126.474
41.5	121.991
42.0	117.971
42.5	114.415
43.0	111.168
43.5	108.307
44.0	105.602
44.5	103.128
45.0	100.808
45.5	98.567
46.0	96.479
46.5	94.392
47.0	92.459
47.5	90.527
48.0	88.594
48.5	86.739
49.0	84.883
49.5	83.028
50.0	81.250
50.5	79.549
51.0	77.771
51.5	76.070
52.0	74.447
52.5	72.746
53.0	71.123
53.5	69.499
54.0	67.876
54.5	66.252

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V2DR-L14-827-DIM-UNV-RW-OF-WH_.IES

CANDELA TABULATION - (Cont.)

55.0	64.706
55.5	63.160
56.0	61.614
56.5	60.068
57.0	58.521
57.5	57.053
58.0	55.507
58.5	54.038
59.0	52.569
59.5	51.177
60.0	49.708
60.5	48.240
61.0	46.771
61.5	45.379
62.0	43.910
62.5	42.519
63.0	41.127
63.5	39.736
64.0	38.344
64.5	36.953
65.0	35.639
65.5	34.324
66.0	33.010
66.5	31.619
67.0	30.382
67.5	29.145
68.0	27.831
68.5	26.594
69.0	25.357
69.5	24.120
70.0	22.960
70.5	21.723
71.0	20.564
71.5	19.327
72.0	18.167
72.5	17.008
73.0	15.848
73.5	14.688
74.0	13.606
74.5	12.446
75.0	11.364
75.5	10.359
76.0	9.354
76.5	8.581
77.0	7.885
77.5	7.267
78.0	6.803
78.5	6.416
79.0	6.107
79.5	5.798
80.0	5.411
80.5	5.102
81.0	4.793
81.5	4.484
82.0	4.097
82.5	3.788

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V2DR-L14-827-DIM-UNV-RW-OF-WH_.IES

CANDELA TABULATION - (Cont.)

83.0	3.556
83.5	3.247
84.0	2.938
84.5	2.628
85.0	2.319
85.5	2.087
86.0	1.778
86.5	1.546
87.0	1.237
87.5	1.005
88.0	0.773
88.5	0.541
89.0	0.309
89.5	0.232
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-L14-827-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-L14-827-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-L14-827-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-L14-827-DIM-UNV-RW-OF-WH_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	507.27	N.A.	40.30
0-30	897.99	N.A.	71.40
0-40	1069.91	N.A.	85.00
0-60	1207.33	N.A.	95.90
0-80	1255.77	N.A.	99.80
0-90	1258.44	N.A.	100.00
10-90	1118.94	N.A.	88.90
20-40	562.64	N.A.	44.70
20-50	642.07	N.A.	51.00
40-70	172.84	N.A.	13.70
60-80	48.44	N.A.	3.80
70-80	13.01	N.A.	1.00
80-90	2.67	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	1258.44	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	139.50
10-20	367.76
20-30	390.73
30-40	171.92
40-50	79.43
50-60	57.99
60-70	35.42
70-80	13.01
80-90	2.67
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-L14-827-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	111	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	83	79	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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V2DR-L14-827-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

X=2H	Y=2H	19.7	20.8	20.1	21.1	21.4	19.7	20.8	20.1	21.1	21.4
	3H	20.7	21.7	21.1	22.0	22.4	20.7	21.7	21.1	22.0	22.4
	4H	20.9	21.8	21.3	22.2	22.6	20.9	21.8	21.3	22.2	22.6
	6H	20.9	21.8	21.4	22.2	22.6	20.9	21.8	21.4	22.2	22.6
	8H	20.9	21.7	21.4	22.1	22.5	20.9	21.7	21.4	22.1	22.5
	12H	20.9	21.7	21.4	22.1	22.5	20.9	21.7	21.4	22.1	22.5

UGR Viewed Endwise

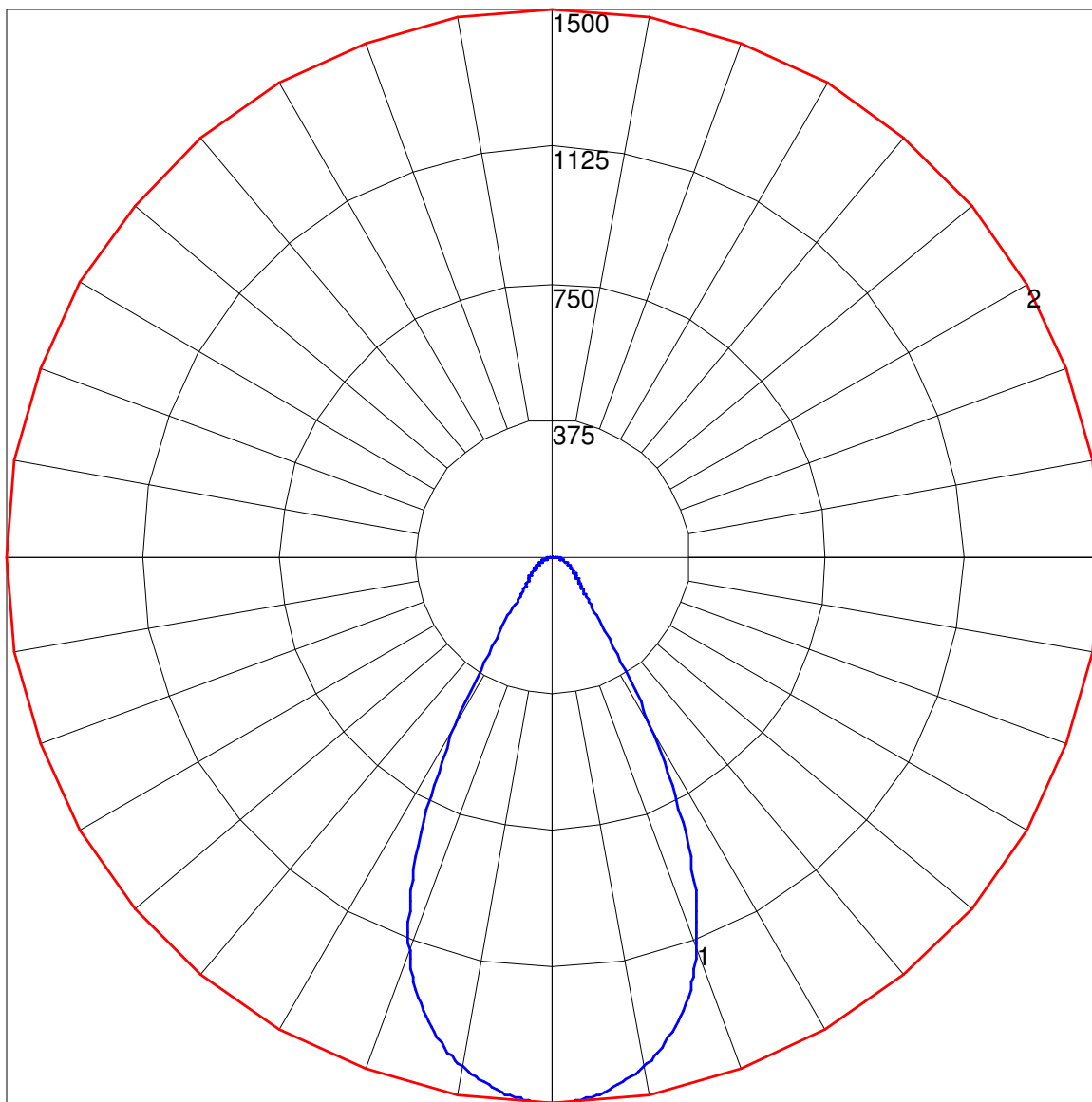
4H	2H	20.0	20.9	20.4	21.3	21.7	20.0	20.9	20.4	21.3	21.7
	3H	21.2	21.9	21.6	22.4	22.8	21.2	21.9	21.6	22.4	22.8
	4H	21.4	22.1	21.9	22.5	23.0	21.4	22.1	21.9	22.5	23.0
	6H	21.5	22.1	22.0	22.5	23.0	21.5	22.1	22.0	22.5	23.0
	8H	21.5	22.0	22.0	22.5	23.0	21.5	22.0	22.0	22.5	23.0
	12H	21.5	22.0	22.0	22.5	22.9	21.5	22.0	22.0	22.5	22.9

8H	4H	21.4	22.0	21.9	22.4	22.9	21.4	22.0	21.9	22.4	22.9
	6H	21.6	22.0	22.1	22.5	23.0	21.6	22.0	22.1	22.5	23.0
	8H	21.6	22.0	22.1	22.5	23.0	21.6	22.0	22.1	22.5	23.0
	12H	21.6	21.9	22.1	22.4	23.0	21.6	21.9	22.1	22.4	23.0

12H	4H	21.4	21.8	21.9	22.3	22.8	21.4	21.8	21.9	22.3	22.8
	6H	21.5	21.9	22.1	22.4	22.9	21.5	21.9	22.1	22.4	22.9
	8H	21.6	21.9	22.1	22.4	23.0	21.6	21.9	22.1	22.4	23.0

Maximum UGR = 23.0

POLAR GRAPH



Maximum Candela = 1499.758 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.)