

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L14-827-DIM-UNV-RW-OF-BL_.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-BL_
[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	994
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	57
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	35644	35644	35644
55	28205	28205	28205
65	21083	21083	21083
75	10978	10978	10978
85	6652	6652	6652

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CANDELA TABULATION

	<u>0</u>
0.0	1184.809
0.5	1184.809
1.0	1184.198
1.5	1183.588
2.0	1183.588
2.5	1182.366
3.0	1180.534
3.5	1178.091
4.0	1175.648
4.5	1173.205
5.0	1169.541
5.5	1166.487
6.0	1162.823
6.5	1158.548
7.0	1154.273
7.5	1149.998
8.0	1145.723
8.5	1140.837
9.0	1135.340
9.5	1130.454
10.0	1124.958
10.5	1118.851
11.0	1112.133
11.5	1105.415
12.0	1098.086
12.5	1090.757
13.0	1082.818
13.5	1074.268
14.0	1065.107
14.5	1055.946
15.0	1045.563
15.5	1035.181
16.0	1023.577
16.5	1011.973
17.0	999.759
17.5	986.934
18.0	973.498
18.5	958.840
19.0	943.572
19.5	927.083
20.0	909.982
20.5	892.271
21.0	873.339
21.5	853.795
22.0	832.420
22.5	811.045
23.0	788.448
23.5	765.240
24.0	740.811
24.5	716.382
25.0	691.342
25.5	665.081
26.0	638.209
26.5	611.337

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CANDELA TABULATION - (Cont.)

27.0	584.648
27.5	557.837
28.0	530.782
28.5	503.849
29.0	476.305
29.5	448.578
30.0	421.096
30.5	394.041
31.0	367.352
31.5	341.579
32.0	316.784
32.5	293.332
33.0	271.590
33.5	251.436
34.0	232.687
34.5	215.525
35.0	199.952
35.5	185.661
36.0	172.713
36.5	161.110
37.0	150.788
37.5	141.566
38.0	133.199
38.5	125.749
39.0	119.214
39.5	113.473
40.0	108.343
40.5	103.885
41.0	99.915
41.5	96.373
42.0	93.197
42.5	90.387
43.0	87.822
43.5	85.563
44.0	83.425
44.5	81.471
45.0	79.639
45.5	77.868
46.0	76.219
46.5	74.570
47.0	73.043
47.5	71.516
48.0	69.989
48.5	68.523
49.0	67.058
49.5	65.592
50.0	64.187
50.5	62.844
51.0	61.439
51.5	60.095
52.0	58.813
52.5	57.469
53.0	56.187
53.5	54.904
54.0	53.622
54.5	52.339

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CANDELA TABULATION - (Cont.)

55.0	51.118
55.5	49.896
56.0	48.675
56.5	47.453
57.0	46.232
57.5	45.072
58.0	43.850
58.5	42.690
59.0	41.529
59.5	40.430
60.0	39.270
60.5	38.109
61.0	36.949
61.5	35.850
62.0	34.689
62.5	33.590
63.0	32.491
63.5	31.391
64.0	30.292
64.5	29.193
65.0	28.154
65.5	27.116
66.0	26.078
66.5	24.979
67.0	24.002
67.5	23.024
68.0	21.986
68.5	21.009
69.0	20.032
69.5	19.055
70.0	18.139
70.5	17.161
71.0	16.245
71.5	15.268
72.0	14.352
72.5	13.436
73.0	12.520
73.5	11.604
74.0	10.749
74.5	9.833
75.0	8.978
75.5	8.184
76.0	7.390
76.5	6.779
77.0	6.229
77.5	5.741
78.0	5.374
78.5	5.069
79.0	4.825
79.5	4.580
80.0	4.275
80.5	4.031
81.0	3.787
81.5	3.542
82.0	3.237
82.5	2.993

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CANDELA TABULATION - (Cont.)

83.0	2.809
83.5	2.565
84.0	2.321
84.5	2.076
85.0	1.832
85.5	1.649
86.0	1.405
86.5	1.221
87.0	0.977
87.5	0.794
88.0	0.611
88.5	0.428
89.0	0.244
89.5	0.183
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
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130.0	0.000
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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-BL_.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

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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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Zone	Lumens	%Lamp	%Fixt
0-20	400.74	N.A.	40.30
0-30	709.41	N.A.	71.40
0-40	845.23	N.A.	85.00
0-60	953.79	N.A.	95.90
0-80	992.05	N.A.	99.80
0-90	994.17	N.A.	100.00
10-90	883.96	N.A.	88.90
20-40	444.49	N.A.	44.70
20-50	507.24	N.A.	51.00
40-70	136.54	N.A.	13.70
60-80	38.26	N.A.	3.80
70-80	10.28	N.A.	1.00
80-90	2.11	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	994.17	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	110.21
10-20	290.53
20-30	308.67
30-40	135.82
40-50	62.75
50-60	45.81
60-70	27.98
70-80	10.28
80-90	2.11
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	18.9	20.0	19.3	20.3	20.6	18.9	20.0	19.3	20.3	20.6
	3H	19.9	20.9	20.3	21.2	21.6	19.9	20.9	20.3	21.2	21.6
	4H	20.1	21.0	20.5	21.4	21.8	20.1	21.0	20.5	21.4	21.8
	6H	20.1	21.0	20.6	21.4	21.7	20.1	21.0	20.6	21.4	21.7
	8H	20.1	20.9	20.6	21.3	21.7	20.1	20.9	20.6	21.3	21.7
	12H	20.1	20.9	20.6	21.3	21.7	20.1	20.9	20.6	21.3	21.7

UGR Viewed Endwise

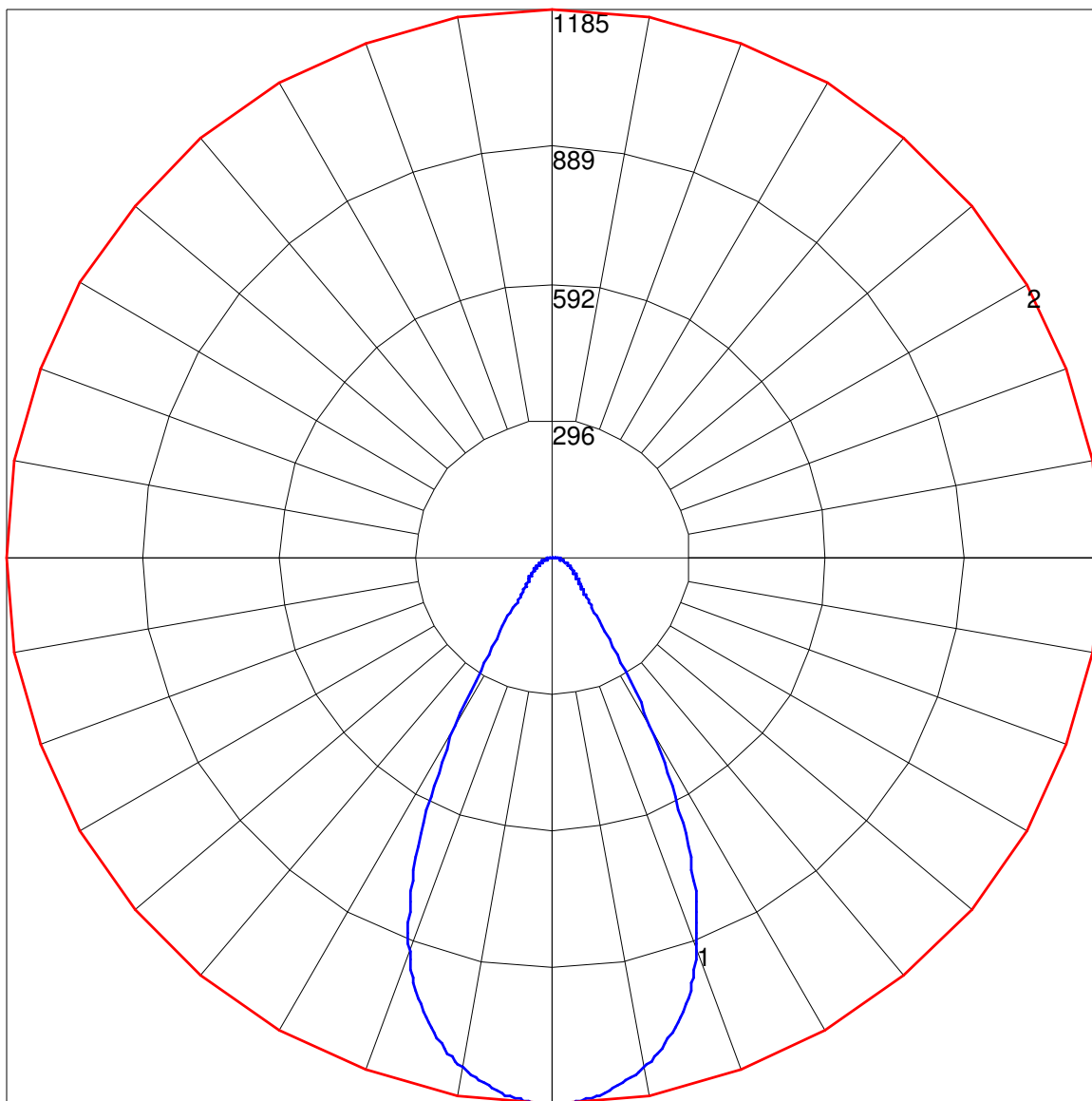
4H	2H	19.2	20.1	19.6	20.5	20.9	19.2	20.1	19.6	20.5	20.9
	3H	20.4	21.1	20.8	21.6	22.0	20.4	21.1	20.8	21.6	22.0
	4H	20.6	21.3	21.1	21.7	22.2	20.6	21.3	21.1	21.7	22.2
	6H	20.7	21.3	21.2	21.7	22.2	20.7	21.3	21.2	21.7	22.2
	8H	20.7	21.2	21.2	21.7	22.2	20.7	21.2	21.2	21.7	22.2
	12H	20.7	21.2	21.2	21.7	22.1	20.7	21.2	21.2	21.7	22.1

8H	4H	20.6	21.2	21.1	21.6	22.1	20.6	21.2	21.1	21.6	22.1
	6H	20.8	21.2	21.3	21.7	22.2	20.8	21.2	21.3	21.7	22.2
	8H	20.8	21.2	21.3	21.7	22.2	20.8	21.2	21.3	21.7	22.2
	12H	20.8	21.1	21.3	21.6	22.2	20.8	21.1	21.3	21.6	22.2

12H	4H	20.6	21.0	21.1	21.5	22.0	20.6	21.0	21.1	21.5	22.0
	6H	20.7	21.1	21.3	21.6	22.1	20.7	21.1	21.3	21.6	22.1
	8H	20.8	21.1	21.3	21.6	22.2	20.8	21.1	21.3	21.6	22.2

Maximum UGR = 22.2

POLAR GRAPH



Maximum Candela = 1184.809 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.)