

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L14-950-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-L14-950-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	951
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	55
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	34094	34094	34094
55	26979	26979	26979
65	20167	20167	20167
75	10500	10500	10500
85	6366	6366	6366

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CANDELA TABULATION

	<u>0</u>
0.0	1133.296
0.5	1133.296
1.0	1132.711
1.5	1132.127
2.0	1132.127
2.5	1130.959
3.0	1129.206
3.5	1126.870
4.0	1124.533
4.5	1122.196
5.0	1118.691
5.5	1115.770
6.0	1112.265
6.5	1108.176
7.0	1104.087
7.5	1099.998
8.0	1095.909
8.5	1091.235
9.0	1085.978
9.5	1081.304
10.0	1076.047
10.5	1070.205
11.0	1063.779
11.5	1057.353
12.0	1050.343
12.5	1043.333
13.0	1035.739
13.5	1027.560
14.0	1018.798
14.5	1010.035
15.0	1000.104
15.5	990.173
16.0	979.074
16.5	967.975
17.0	956.291
17.5	944.024
18.0	931.172
18.5	917.152
19.0	902.547
19.5	886.775
20.0	870.418
20.5	853.477
21.0	835.367
21.5	816.674
22.0	796.228
22.5	775.782
23.0	754.167
23.5	731.969
24.0	708.602
24.5	685.235
25.0	661.284
25.5	636.164
26.0	610.461
26.5	584.757

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CANDELA TABULATION - (Cont.)

27.0	559.229
27.5	533.584
28.0	507.705
28.5	481.943
29.0	455.597
29.5	429.075
30.0	402.787
30.5	376.908
31.0	351.380
31.5	326.728
32.0	303.011
32.5	280.578
33.0	259.782
33.5	240.504
34.0	222.570
34.5	206.155
35.0	191.258
35.5	177.589
36.0	165.204
36.5	154.105
37.0	144.232
37.5	135.411
38.0	127.408
38.5	120.281
39.0	114.031
39.5	108.539
40.0	103.632
40.5	99.368
41.0	95.571
41.5	92.183
42.0	89.145
42.5	86.458
43.0	84.004
43.5	81.843
44.0	79.798
44.5	77.929
45.0	76.176
45.5	74.482
46.0	72.905
46.5	71.328
47.0	69.867
47.5	68.407
48.0	66.946
48.5	65.544
49.0	64.142
49.5	62.740
50.0	61.397
50.5	60.111
51.0	58.768
51.5	57.483
52.0	56.256
52.5	54.971
53.0	53.744
53.5	52.517
54.0	51.290
54.5	50.064

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CANDELA TABULATION - (Cont.)

55.0	48.895
55.5	47.727
56.0	46.559
56.5	45.390
57.0	44.222
57.5	43.112
58.0	41.944
58.5	40.834
59.0	39.724
59.5	38.672
60.0	37.562
60.5	36.452
61.0	35.342
61.5	34.291
62.0	33.181
62.5	32.130
63.0	31.078
63.5	30.026
64.0	28.975
64.5	27.923
65.0	26.930
65.5	25.937
66.0	24.944
66.5	23.893
67.0	22.958
67.5	22.023
68.0	21.030
68.5	20.096
69.0	19.161
69.5	18.226
70.0	17.350
70.5	16.415
71.0	15.539
71.5	14.604
72.0	13.728
72.5	12.852
73.0	11.976
73.5	11.099
74.0	10.281
74.5	9.405
75.0	8.587
75.5	7.828
76.0	7.068
76.5	6.484
77.0	5.959
77.5	5.491
78.0	5.141
78.5	4.849
79.0	4.615
79.5	4.381
80.0	4.089
80.5	3.856
81.0	3.622
81.5	3.388
82.0	3.096
82.5	2.862

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CANDELA TABULATION - (Cont.)

83.0	2.687
83.5	2.454
84.0	2.220
84.5	1.986
85.0	1.753
85.5	1.577
86.0	1.344
86.5	1.168
87.0	0.935
87.5	0.759
88.0	0.584
88.5	0.409
89.0	0.234
89.5	0.175
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-L14-950-DIM-UNV-RW-OF-BL_.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-L14-950-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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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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Zone	Lumens	%Lamp	%Fixt
0-20	383.32	N.A.	40.30
0-30	678.57	N.A.	71.40
0-40	808.48	N.A.	85.00
0-60	912.32	N.A.	95.90
0-80	948.92	N.A.	99.80
0-90	950.94	N.A.	100.00
10-90	845.53	N.A.	88.90
20-40	425.16	N.A.	44.70
20-50	485.18	N.A.	51.00
40-70	130.61	N.A.	13.70
60-80	36.60	N.A.	3.80
70-80	9.83	N.A.	1.00
80-90	2.02	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	950.94	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	105.41
10-20	277.90
20-30	295.25
30-40	129.91
40-50	60.02
50-60	43.82
60-70	26.77
70-80	9.83
80-90	2.02
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	85	83	80	79
4	96	88	82	78	94	87	81	77	84	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	72	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	61	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

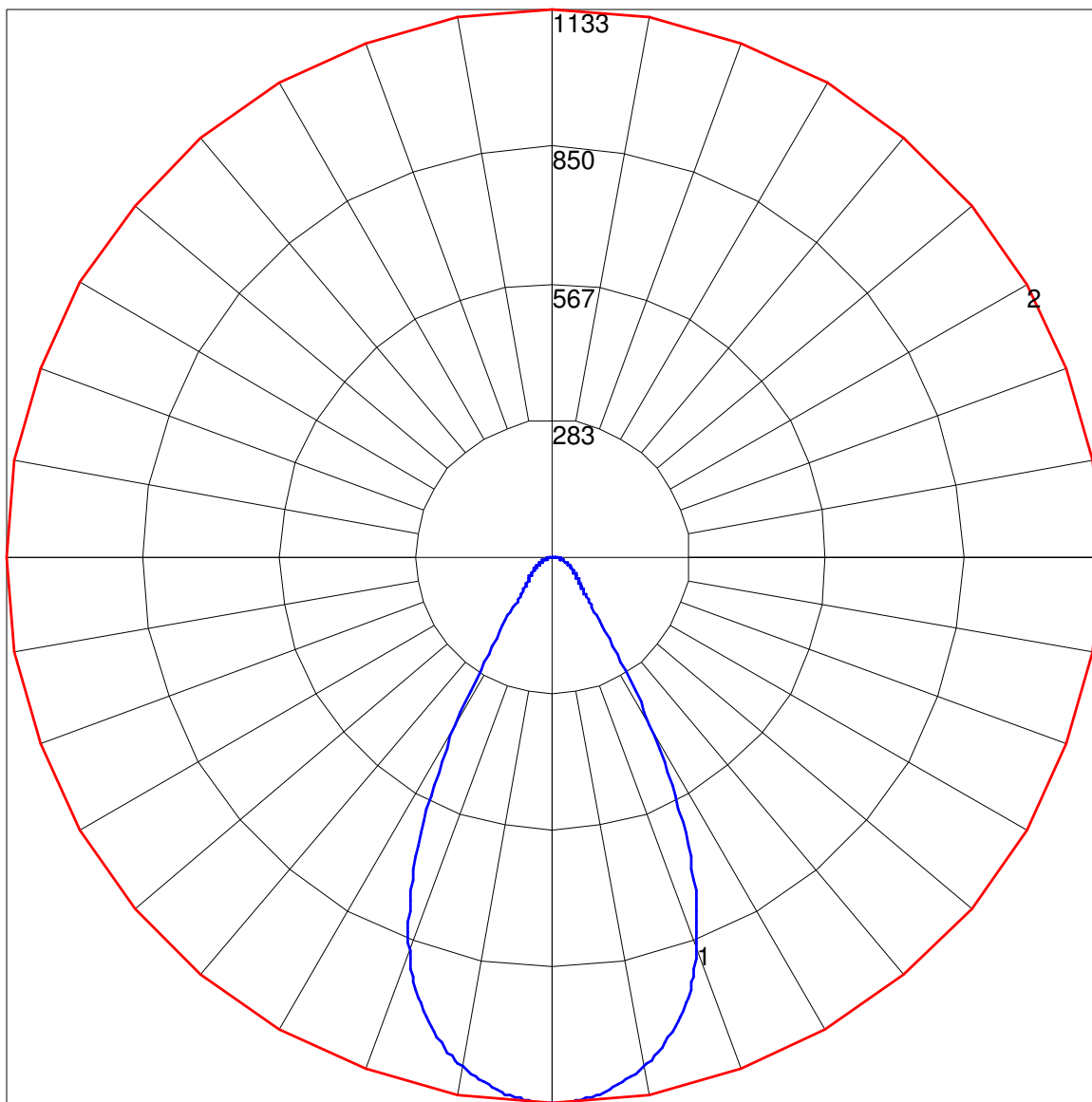
X=2H	Y=2H	18.8	19.9	19.2	20.2	20.5	18.8	19.9	19.2	20.2	20.5
	3H	19.8	20.8	20.2	21.1	21.5	19.8	20.8	20.2	21.1	21.5
	4H	20.0	20.9	20.4	21.3	21.7	20.0	20.9	20.4	21.3	21.7
	6H	20.0	20.9	20.5	21.3	21.6	20.0	20.9	20.5	21.3	21.6
	8H	20.0	20.8	20.5	21.2	21.6	20.0	20.8	20.5	21.2	21.6
	12H	20.0	20.8	20.5	21.2	21.6	20.0	20.8	20.5	21.2	21.6

UGR Viewed Endwise

4H	2H	19.1	20.0	19.5	20.4	20.8	19.1	20.0	19.5	20.4	20.8
	3H	20.3	21.0	20.7	21.5	21.9	20.3	21.0	20.7	21.5	21.9
	4H	20.5	21.2	21.0	21.6	22.1	20.5	21.2	21.0	21.6	22.1
	6H	20.6	21.2	21.1	21.6	22.1	20.6	21.2	21.1	21.6	22.1
	8H	20.6	21.1	21.1	21.6	22.1	20.6	21.1	21.1	21.6	22.1
	12H	20.6	21.1	21.1	21.6	22.0	20.6	21.1	21.1	21.6	22.0
8H	4H	20.5	21.1	21.0	21.5	22.0	20.5	21.1	21.0	21.5	22.0
	6H	20.7	21.1	21.2	21.6	22.1	20.7	21.1	21.2	21.6	22.1
	8H	20.7	21.1	21.2	21.6	22.1	20.7	21.1	21.2	21.6	22.1
	12H	20.7	21.0	21.2	21.5	22.1	20.7	21.0	21.2	21.5	22.1
12H	4H	20.5	20.9	21.0	21.4	21.9	20.5	20.9	21.0	21.4	21.9
	6H	20.6	21.0	21.2	21.5	22.0	20.6	21.0	21.2	21.5	22.0
	8H	20.7	21.0	21.2	21.5	22.1	20.7	21.0	21.2	21.5	22.1

Maximum UGR = 22.1

POLAR GRAPH



Maximum Candela = 1133.296 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.)