

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L14-927-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-L14-927-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	821
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	47
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	29445	29445	29445
55	23300	23300	23300
65	17417	17417	17417
75	9068	9068	9068
85	5498	5498	5498

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CANDELA TABULATION

	<u>0</u>
0.0	978.755
0.5	978.755
1.0	978.251
1.5	977.746
2.0	977.746
2.5	976.737
3.0	975.224
3.5	973.206
4.0	971.188
4.5	969.170
5.0	966.142
5.5	963.620
6.0	960.593
6.5	957.061
7.0	953.530
7.5	949.998
8.0	946.466
8.5	942.430
9.0	937.890
9.5	933.854
10.0	929.313
10.5	924.268
11.0	918.718
11.5	913.169
12.0	907.114
12.5	901.060
13.0	894.502
13.5	887.438
14.0	879.871
14.5	872.303
15.0	863.726
15.5	855.150
16.0	845.564
16.5	835.978
17.0	825.888
17.5	815.293
18.0	804.194
18.5	792.085
19.0	779.473
19.5	765.851
20.0	751.724
20.5	737.094
21.0	721.454
21.5	705.309
22.0	687.651
22.5	669.993
23.0	651.326
23.5	632.155
24.0	611.974
24.5	591.794
25.0	571.109
25.5	549.415
26.0	527.216
26.5	505.018

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CANDELA TABULATION - (Cont.)

27.0	482.970
27.5	460.822
28.0	438.472
28.5	416.223
29.0	393.470
29.5	370.565
30.0	347.862
30.5	325.512
31.0	303.465
31.5	282.174
32.0	261.691
32.5	242.318
33.0	224.357
33.5	207.708
34.0	192.219
34.5	178.043
35.0	165.178
35.5	153.372
36.0	142.676
36.5	133.091
37.0	124.564
37.5	116.946
38.0	110.034
38.5	103.879
39.0	98.481
39.5	93.739
40.0	89.501
40.5	85.818
41.0	82.538
41.5	79.612
42.0	76.989
42.5	74.668
43.0	72.549
43.5	70.682
44.0	68.916
44.5	67.302
45.0	65.788
45.5	64.325
46.0	62.963
46.5	61.601
47.0	60.340
47.5	59.078
48.0	57.817
48.5	56.606
49.0	55.396
49.5	54.185
50.0	53.024
50.5	51.914
51.0	50.754
51.5	49.644
52.0	48.585
52.5	47.475
53.0	46.415
53.5	45.356
54.0	44.296
54.5	43.237

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CANDELA TABULATION - (Cont.)

55.0	42.228
55.5	41.219
56.0	40.210
56.5	39.201
57.0	38.192
57.5	37.233
58.0	36.224
58.5	35.265
59.0	34.307
59.5	33.399
60.0	32.440
60.5	31.482
61.0	30.523
61.5	29.615
62.0	28.656
62.5	27.748
63.0	26.840
63.5	25.932
64.0	25.024
64.5	24.116
65.0	23.258
65.5	22.400
66.0	21.543
66.5	20.635
67.0	19.827
67.5	19.020
68.0	18.162
68.5	17.355
69.0	16.548
69.5	15.741
70.0	14.984
70.5	14.177
71.0	13.420
71.5	12.613
72.0	11.856
72.5	11.099
73.0	10.343
73.5	9.586
74.0	8.879
74.5	8.123
75.0	7.416
75.5	6.760
76.0	6.105
76.5	5.600
77.0	5.146
77.5	4.742
78.0	4.440
78.5	4.187
79.0	3.986
79.5	3.784
80.0	3.532
80.5	3.330
81.0	3.128
81.5	2.926
82.0	2.674
82.5	2.472

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CANDELA TABULATION - (Cont.)

83.0	2.321
83.5	2.119
84.0	1.917
84.5	1.715
85.0	1.514
85.5	1.362
86.0	1.160
86.5	1.009
87.0	0.807
87.5	0.656
88.0	0.505
88.5	0.353
89.0	0.202
89.5	0.151
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
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150.0	0.000
150.5	0.000
151.0	0.000
151.5	0.000
152.0	0.000
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153.5	0.000
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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	331.05	N.A.	40.30
0-30	586.04	N.A.	71.40
0-40	698.23	N.A.	85.00
0-60	787.91	N.A.	95.90
0-80	819.52	N.A.	99.80
0-90	821.27	N.A.	100.00
10-90	730.23	N.A.	88.90
20-40	367.19	N.A.	44.70
20-50	419.02	N.A.	51.00
40-70	112.80	N.A.	13.70
60-80	31.61	N.A.	3.80
70-80	8.49	N.A.	1.00
80-90	1.75	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	821.27	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	91.04
10-20	240.01
20-30	254.99
30-40	112.20
40-50	51.83
50-60	37.85
60-70	23.12
70-80	8.49
80-90	1.75
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	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	82	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

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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	18.2	19.3	18.6	19.6	19.9	18.2	19.3	18.6	19.6	19.9
	3H	19.2	20.2	19.6	20.5	20.9	19.2	20.2	19.6	20.5	20.9
	4H	19.4	20.3	19.8	20.7	21.1	19.4	20.3	19.8	20.7	21.1
	6H	19.4	20.3	19.9	20.7	21.1	19.4	20.3	19.9	20.7	21.1
	8H	19.4	20.2	19.9	20.6	21.0	19.4	20.2	19.9	20.6	21.0
	12H	19.4	20.2	19.9	20.6	21.0	19.4	20.2	19.9	20.6	21.0

UGR Viewed Endwise

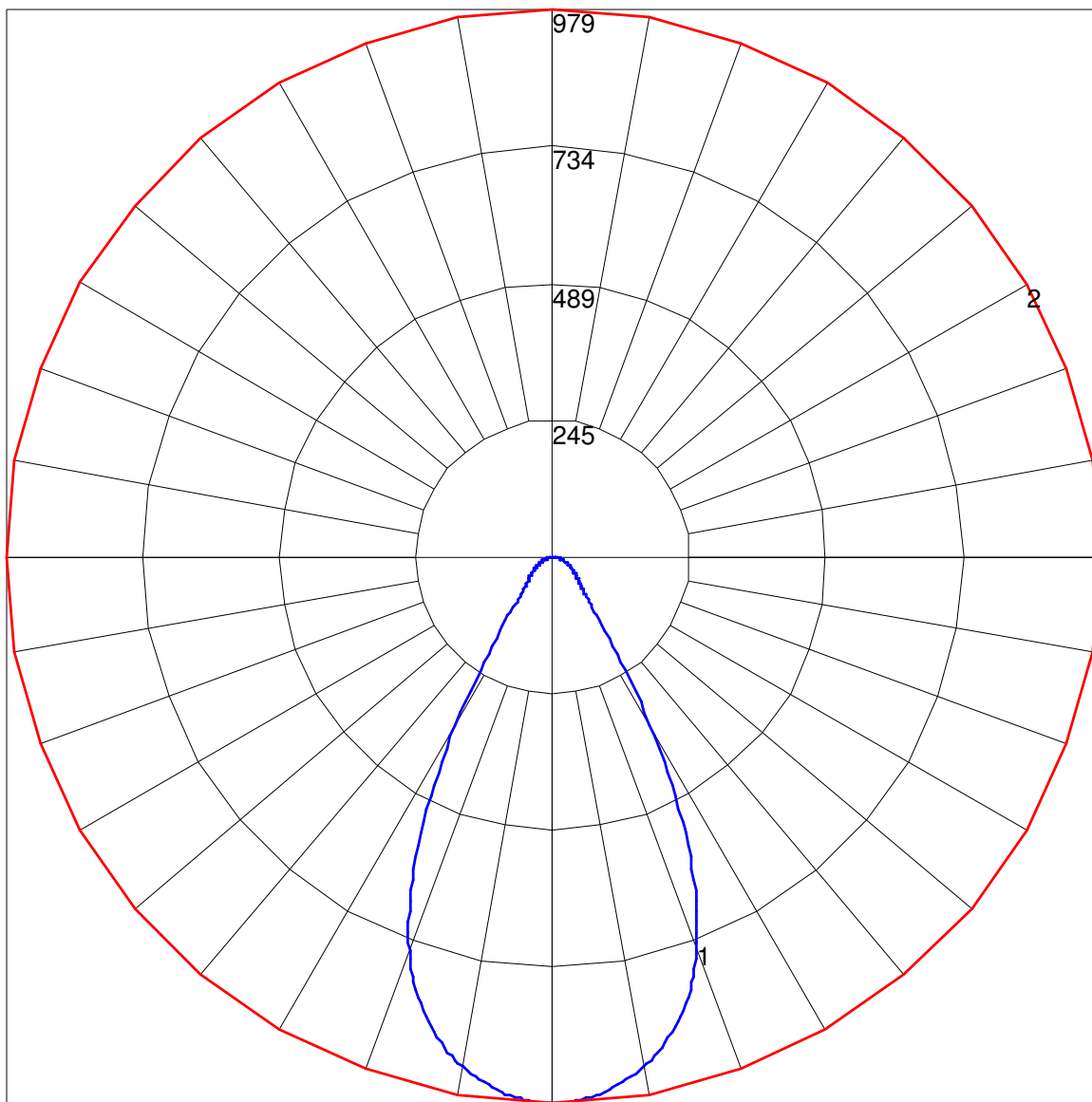
4H	2H	18.5	19.4	18.9	19.8	20.2	18.5	19.4	18.9	19.8	20.2
	3H	19.7	20.4	20.1	20.9	21.3	19.7	20.4	20.1	20.9	21.3
	4H	19.9	20.6	20.4	21.0	21.5	19.9	20.6	20.4	21.0	21.5
	6H	20.0	20.6	20.5	21.0	21.5	20.0	20.6	20.5	21.0	21.5
	8H	20.0	20.5	20.5	21.0	21.5	20.0	20.5	20.5	21.0	21.5
	12H	20.0	20.5	20.5	21.0	21.4	20.0	20.5	20.5	21.0	21.4

8H	4H	19.9	20.5	20.4	20.9	21.4	19.9	20.5	20.4	20.9	21.4
	6H	20.1	20.5	20.6	21.0	21.5	20.1	20.5	20.6	21.0	21.5
	8H	20.1	20.5	20.6	21.0	21.5	20.1	20.5	20.6	21.0	21.5
	12H	20.1	20.4	20.6	20.9	21.5	20.1	20.4	20.6	20.9	21.5

12H	4H	19.9	20.4	20.4	20.8	21.3	19.9	20.4	20.4	20.8	21.3
	6H	20.0	20.4	20.6	20.9	21.4	20.0	20.4	20.6	20.9	21.4
	8H	20.1	20.4	20.6	20.9	21.5	20.1	20.4	20.6	20.9	21.5

Maximum UGR = 21.5

POLAR GRAPH



Maximum Candela = 978.755 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.)