

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L14-930-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-L14-930-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	854
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	49
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	30607	30607	30607
55	24220	24220	24220
65	18104	18104	18104
75	9426	9426	9426
85	5712	5712	5712

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CANDELA TABULATION

	<u>0</u>
0.0	1017.390
0.5	1017.390
1.0	1016.866
1.5	1016.341
2.0	1016.341
2.5	1015.293
3.0	1013.719
3.5	1011.622
4.0	1009.524
4.5	1007.426
5.0	1004.280
5.5	1001.657
6.0	998.511
6.5	994.840
7.0	991.169
7.5	987.498
8.0	983.827
8.5	979.632
9.0	974.912
9.5	970.716
10.0	965.996
10.5	960.752
11.0	954.983
11.5	949.215
12.0	942.922
12.5	936.628
13.0	929.811
13.5	922.469
14.0	914.602
14.5	906.736
15.0	897.821
15.5	888.905
16.0	878.941
16.5	868.977
17.0	858.489
17.5	847.476
18.0	835.938
18.5	823.352
19.0	810.241
19.5	796.082
20.0	781.398
20.5	766.189
21.0	749.932
21.5	733.150
22.0	714.795
22.5	696.440
23.0	677.037
23.5	657.108
24.0	636.131
24.5	615.154
25.0	593.653
25.5	571.102
26.0	548.027
26.5	524.952

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CANDELA TABULATION - (Cont.)

27.0	502.035
27.5	479.013
28.0	455.780
28.5	432.653
29.0	409.001
29.5	385.192
30.0	361.593
30.5	338.361
31.0	315.443
31.5	293.313
32.0	272.021
32.5	251.883
33.0	233.213
33.5	215.907
34.0	199.807
34.5	185.071
35.0	171.698
35.5	159.426
36.0	148.308
36.5	138.344
37.0	129.481
37.5	121.562
38.0	114.378
38.5	107.980
39.0	102.368
39.5	97.439
40.0	93.034
40.5	89.205
41.0	85.796
41.5	82.755
42.0	80.028
42.5	77.615
43.0	75.413
43.5	73.472
44.0	71.637
44.5	69.959
45.0	68.385
45.5	66.865
46.0	65.449
46.5	64.033
47.0	62.722
47.5	61.411
48.0	60.099
48.5	58.841
49.0	57.582
49.5	56.324
50.0	55.117
50.5	53.964
51.0	52.757
51.5	51.604
52.0	50.502
52.5	49.349
53.0	48.247
53.5	47.146
54.0	46.045
54.5	44.943

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CANDELA TABULATION - (Cont.)

55.0	43.895
55.5	42.846
56.0	41.797
56.5	40.748
57.0	39.699
57.5	38.703
58.0	37.654
58.5	36.658
59.0	35.661
59.5	34.717
60.0	33.721
60.5	32.724
61.0	31.728
61.5	30.784
62.0	29.788
62.5	28.844
63.0	27.900
63.5	26.956
64.0	26.012
64.5	25.068
65.0	24.176
65.5	23.285
66.0	22.393
66.5	21.449
67.0	20.610
67.5	19.771
68.0	18.879
68.5	18.040
69.0	17.201
69.5	16.362
70.0	15.576
70.5	14.736
71.0	13.950
71.5	13.111
72.0	12.324
72.5	11.537
73.0	10.751
73.5	9.964
74.0	9.230
74.5	8.443
75.0	7.709
75.5	7.027
76.0	6.346
76.5	5.821
77.0	5.349
77.5	4.930
78.0	4.615
78.5	4.353
79.0	4.143
79.5	3.933
80.0	3.671
80.5	3.461
81.0	3.251
81.5	3.042
82.0	2.779
82.5	2.570

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CANDELA TABULATION - (Cont.)

83.0	2.412
83.5	2.203
84.0	1.993
84.5	1.783
85.0	1.573
85.5	1.416
86.0	1.206
86.5	1.049
87.0	0.839
87.5	0.682
88.0	0.524
88.5	0.367
89.0	0.210
89.5	0.157
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-L14-930-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-L14-930-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
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154.0	0.000
154.5	0.000
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157.5	0.000
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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	344.11	N.A.	40.30
0-30	609.17	N.A.	71.40
0-40	725.79	N.A.	85.00
0-60	819.02	N.A.	95.90
0-80	851.87	N.A.	99.80
0-90	853.69	N.A.	100.00
10-90	759.05	N.A.	88.90
20-40	381.68	N.A.	44.70
20-50	435.56	N.A.	51.00
40-70	117.25	N.A.	13.70
60-80	32.86	N.A.	3.80
70-80	8.83	N.A.	1.00
80-90	1.81	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	853.69	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	94.63
10-20	249.48
20-30	265.06
30-40	116.62
40-50	53.88
50-60	39.34
60-70	24.03
70-80	8.83
80-90	1.81
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	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

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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	18.4	19.5	18.8	19.8	20.1	18.4	19.5	18.8	19.8	20.1
	3H	19.4	20.4	19.8	20.7	21.1	19.4	20.4	19.8	20.7	21.1
	4H	19.6	20.5	20.0	20.9	21.3	19.6	20.5	20.0	20.9	21.3
	6H	19.6	20.5	20.1	20.9	21.2	19.6	20.5	20.1	20.9	21.2
	8H	19.6	20.4	20.1	20.8	21.2	19.6	20.4	20.1	20.8	21.2
	12H	19.6	20.4	20.1	20.8	21.2	19.6	20.4	20.1	20.8	21.2

UGR Viewed Endwise

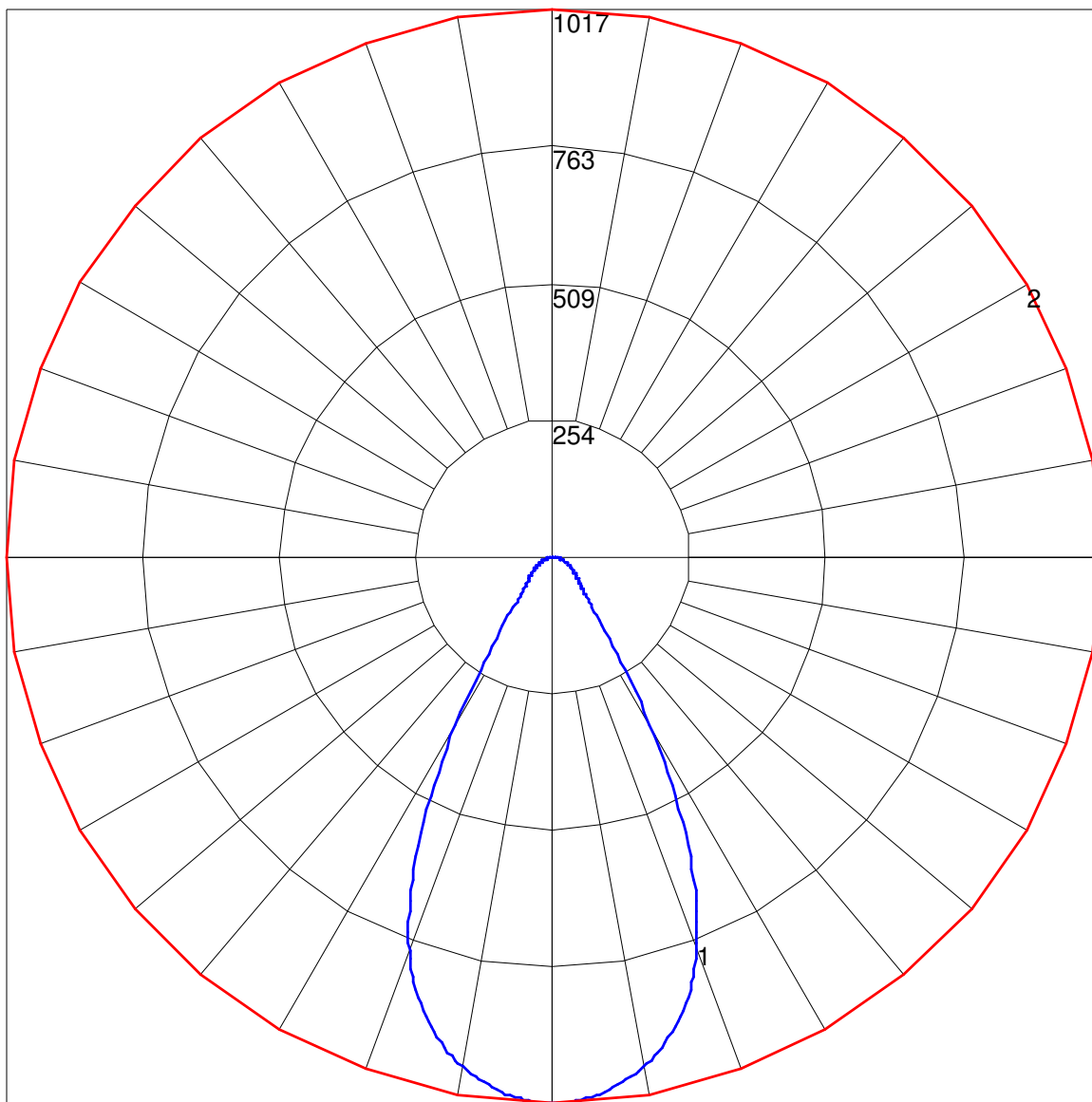
4H	2H	18.7	19.6	19.1	20.0	20.4	18.7	19.6	19.1	20.0	20.4
	3H	19.9	20.6	20.3	21.1	21.5	19.9	20.6	20.3	21.1	21.5
	4H	20.1	20.8	20.6	21.2	21.7	20.1	20.8	20.6	21.2	21.7
	6H	20.2	20.8	20.7	21.2	21.7	20.2	20.8	20.7	21.2	21.7
	8H	20.2	20.7	20.7	21.2	21.7	20.2	20.7	20.7	21.2	21.7
	12H	20.2	20.7	20.7	21.2	21.6	20.2	20.7	20.7	21.2	21.6

8H	4H	20.1	20.7	20.6	21.1	21.6	20.1	20.7	20.6	21.1	21.6
	6H	20.3	20.7	20.8	21.2	21.7	20.3	20.7	20.8	21.2	21.7
	8H	20.3	20.7	20.8	21.2	21.7	20.3	20.7	20.8	21.2	21.7
	12H	20.3	20.6	20.8	21.1	21.7	20.3	20.6	20.8	21.1	21.7

12H	4H	20.1	20.5	20.6	21.0	21.5	20.1	20.5	20.6	21.0	21.5
	6H	20.2	20.6	20.8	21.1	21.6	20.2	20.6	20.8	21.1	21.6
	8H	20.3	20.6	20.8	21.1	21.7	20.3	20.6	20.8	21.1	21.7

Maximum UGR = 21.7

POLAR GRAPH



Maximum Candela = 1017.39 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.)