

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L5-930-DIM-UNV-LW-OF_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM 13257153.01
[TESTLAB] UL Verification Services Inc.
[ISSUE DATE] 2025-05-20
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] V2DR-L5-930-DIM-UNV-LW-OF_
[LUMINAIRE] Aluminum housing, optics, and trim enclosure
[LAMP] One white LED
[OTHER] This test was performed using the calibrated photodetector method of absolute photometry.
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Indoor, Downlight, Vandal-Resistant
[SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	399
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	60
Total Luminaire Watts	6.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.86
Spacing Criterion (90-270)	0.86
Spacing Criterion (Diagonal)	0.78
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	16455	16455	16455
55	14372	14372	14372
65	12277	12277	12277
75	9905	9905	9905
85	5548	5548	5548

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CANDELA TABULATION

	<u>0</u>
0.0	470.737
0.5	470.494
1.0	470.494
1.5	470.252
2.0	470.009
2.5	469.282
3.0	468.554
3.5	467.826
4.0	466.856
4.5	465.644
5.0	464.431
5.5	463.219
6.0	462.006
6.5	460.551
7.0	459.096
7.5	457.641
8.0	455.943
8.5	454.245
9.0	452.305
9.5	450.365
10.0	448.182
10.5	445.757
11.0	443.332
11.5	440.664
12.0	437.996
12.5	434.843
13.0	431.691
13.5	428.295
14.0	424.657
14.5	420.777
15.0	416.654
15.5	412.046
16.0	407.438
16.5	402.345
17.0	396.767
17.5	391.189
18.0	384.884
18.5	378.336
19.0	371.060
19.5	363.299
20.0	355.296
20.5	346.565
21.0	337.592
21.5	327.891
22.0	317.705
22.5	307.276
23.0	296.363
23.5	285.207
24.0	273.808
24.5	262.167
25.0	250.284
25.5	238.521
26.0	226.613
26.5	214.827

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CANDELA TABULATION - (Cont.)

27.0	203.210
27.5	191.836
28.0	180.704
28.5	169.839
29.0	159.313
29.5	149.055
30.0	139.426
30.5	130.332
31.0	121.746
31.5	113.743
32.0	106.249
32.5	99.289
33.0	92.910
33.5	87.066
34.0	81.754
34.5	76.904
35.0	72.490
35.5	68.488
36.0	64.875
36.5	61.649
37.0	58.739
37.5	56.144
38.0	53.816
38.5	51.706
39.0	49.814
39.5	48.117
40.0	46.564
40.5	45.182
41.0	43.921
41.5	42.757
42.0	41.690
42.5	40.695
43.0	39.798
43.5	38.973
44.0	38.197
44.5	37.470
45.0	36.766
45.5	36.112
46.0	35.481
46.5	34.875
47.0	34.293
47.5	33.711
48.0	33.153
48.5	32.595
49.0	32.037
49.5	31.504
50.0	30.994
50.5	30.485
51.0	29.952
51.5	29.467
52.0	28.957
52.5	28.472
53.0	27.987
53.5	27.502
54.0	27.017
54.5	26.532

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CANDELA TABULATION - (Cont.)

55.0	26.047
55.5	25.562
56.0	25.101
56.5	24.592
57.0	24.131
57.5	23.646
58.0	23.161
58.5	22.676
59.0	22.191
59.5	21.706
60.0	21.221
60.5	20.736
61.0	20.251
61.5	19.741
62.0	19.281
62.5	18.796
63.0	18.286
63.5	17.801
64.0	17.316
64.5	16.855
65.0	16.395
65.5	15.934
66.0	15.473
66.5	15.036
67.0	14.576
67.5	14.163
68.0	13.727
68.5	13.315
69.0	12.902
69.5	12.466
70.0	12.053
70.5	11.641
71.0	11.253
71.5	10.841
72.0	10.428
72.5	10.040
73.0	9.628
73.5	9.240
74.0	8.876
74.5	8.488
75.0	8.100
75.5	7.736
76.0	7.373
76.5	7.009
77.0	6.669
77.5	6.306
78.0	5.966
78.5	5.627
79.0	5.287
79.5	4.947
80.0	4.632
80.5	4.293
81.0	3.977
81.5	3.662
82.0	3.347
82.5	3.032

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CANDELA TABULATION - (Cont.)

83.0	2.741
83.5	2.425
84.0	2.134
84.5	1.819
85.0	1.528
85.5	1.213
86.0	0.897
86.5	0.679
87.0	0.485
87.5	0.291
88.0	0.194
88.5	0.146
89.0	0.097
89.5	0.073
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
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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
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149.0	0.000
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155.0	0.000
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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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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	159.15	N.A.	39.90
0-30	271.32	N.A.	68.00
0-40	320.05	N.A.	80.20
0-60	372.15	N.A.	93.30
0-80	397.08	N.A.	99.50
0-90	399.00	N.A.	100.00
10-90	355.17	N.A.	89.00
20-40	160.91	N.A.	40.30
20-50	189.71	N.A.	47.50
40-70	68.39	N.A.	17.10
60-80	24.93	N.A.	6.20
70-80	8.63	N.A.	2.20
80-90	1.92	N.A.	0.50
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	399.00	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	43.83
10-20	115.32
20-30	112.17
30-40	48.73
40-50	28.80
50-60	23.30
60-70	16.30
70-80	8.63
80-90	1.92
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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76
4	94	86	80	75	93	85	79	75	83	78	74	81	76	73	79	75	72	70
5	89	80	74	69	88	79	73	69	77	72	68	76	71	68	74	70	67	65
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	63	61
7	81	71	64	60	79	70	64	60	69	63	59	67	63	59	66	62	59	57
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54
9	73	63	57	53	72	63	57	53	62	56	52	61	56	52	60	55	52	51
10	70	60	54	50	69	59	54	50	58	53	49	58	53	49	57	52	49	48

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UGR TABLE - CORRECTED

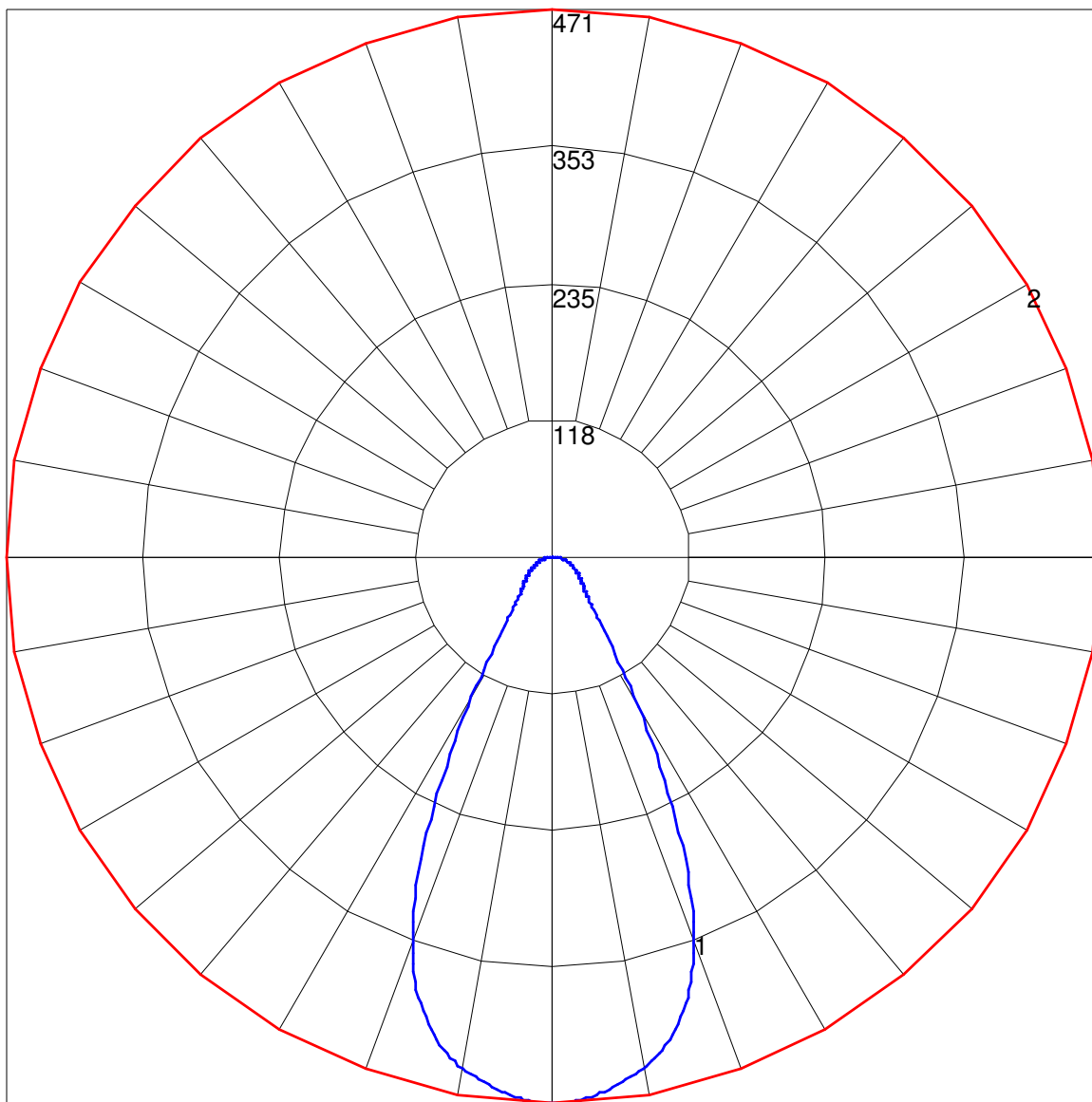
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	17.5	18.7	17.8	19.0	19.3	17.5	18.7	17.8	19.0	19.3
	3H	19.0	20.0	19.4	20.4	20.7	19.0	20.0	19.4	20.4	20.7
	4H	19.5	20.5	19.9	20.8	21.2	19.5	20.5	19.9	20.8	21.2
	6H	19.8	20.7	20.2	21.1	21.5	19.8	20.7	20.2	21.1	21.5
	8H	19.9	20.8	20.4	21.2	21.6	19.9	20.8	20.4	21.2	21.6
	12H	20.0	20.8	20.4	21.1	21.6	20.0	20.8	20.4	21.1	21.6
4H	2H	18.0	18.9	18.4	19.3	19.7	18.0	18.9	18.4	19.3	19.7
	3H	19.6	20.4	20.1	20.8	21.3	19.6	20.4	20.1	20.8	21.3
	4H	20.3	21.0	20.7	21.4	21.9	20.3	21.0	20.7	21.4	21.9
	6H	20.7	21.3	21.2	21.8	22.3	20.7	21.3	21.2	21.8	22.3
	8H	20.8	21.4	21.3	21.9	22.3	20.8	21.4	21.3	21.9	22.3
	12H	20.9	21.4	21.4	21.9	22.4	20.9	21.4	21.4	21.9	22.4
8H	4H	20.5	21.0	20.9	21.5	22.0	20.5	21.0	20.9	21.5	22.0
	6H	21.0	21.5	21.5	22.0	22.5	21.0	21.5	21.5	22.0	22.5
	8H	21.2	21.6	21.7	22.1	22.6	21.2	21.6	21.7	22.1	22.6
	12H	21.3	21.7	21.8	22.2	22.7	21.3	21.7	21.8	22.2	22.7
12H	4H	20.5	21.0	20.9	21.4	21.9	20.5	21.0	20.9	21.4	21.9
	6H	21.0	21.5	21.6	21.9	22.5	21.0	21.5	21.6	21.9	22.5
	8H	21.3	21.6	21.8	22.1	22.7	21.3	21.6	21.8	22.1	22.7

Maximum UGR = 22.7

POLAR GRAPH



Maximum Candela = 470.737 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.)