

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L5-930-DIM-UNV-RW-OF-WH_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM 13257153.03
[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-RW-OF-WH_
[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
[SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	387
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	58
Total Luminaire Watts	6.7
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	13877	13877	13877
55	10981	10981	10981
65	8208	8208	8208
75	4274	4274	4274
85	2589	2589	2589

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CANDELA TABULATION

	<u>0</u>
0.0	461.286
0.5	461.286
1.0	461.048
1.5	460.811
2.0	460.811
2.5	460.335
3.0	459.622
3.5	458.671
4.0	457.720
4.5	456.768
5.0	455.342
5.5	454.153
6.0	452.726
6.5	451.062
7.0	449.397
7.5	447.733
8.0	446.069
8.5	444.166
9.0	442.026
9.5	440.124
10.0	437.984
10.5	435.606
11.0	432.991
11.5	430.375
12.0	427.522
12.5	424.669
13.0	421.578
13.5	418.249
14.0	414.682
14.5	411.115
15.0	407.073
15.5	403.031
16.0	398.513
16.5	393.995
17.0	389.240
17.5	384.247
18.0	379.016
18.5	373.309
19.0	367.365
19.5	360.945
20.0	354.287
20.5	347.391
21.0	340.020
21.5	332.411
22.0	324.089
22.5	315.767
23.0	306.969
23.5	297.934
24.0	288.423
24.5	278.912
25.0	269.163
25.5	258.938
26.0	248.476
26.5	238.014

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CANDELA TABULATION - (Cont.)

27.0	227.623
27.5	217.185
28.0	206.651
28.5	196.166
29.0	185.442
29.5	174.647
30.0	163.947
30.5	153.413
31.0	143.023
31.5	132.988
32.0	123.335
32.5	114.204
33.0	105.739
33.5	97.893
34.0	90.593
34.5	83.911
35.0	77.848
35.5	72.284
36.0	67.243
36.5	62.725
37.0	58.707
37.5	55.117
38.0	51.859
38.5	48.958
39.0	46.414
39.5	44.179
40.0	42.182
40.5	40.446
41.0	38.900
41.5	37.521
42.0	36.285
42.5	35.191
43.0	34.192
43.5	33.312
44.0	32.480
44.5	31.719
45.0	31.006
45.5	30.316
46.0	29.674
46.5	29.032
47.0	28.438
47.5	27.844
48.0	27.249
48.5	26.679
49.0	26.108
49.5	25.537
50.0	24.990
50.5	24.467
51.0	23.920
51.5	23.397
52.0	22.898
52.5	22.375
53.0	21.875
53.5	21.376
54.0	20.877
54.5	20.377

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PHOTOMETRIC FILENAME : V2DR-L5-930-DIM-UNV-RW-OF-WH_.IES

CANDELA TABULATION - (Cont.)

55.0	19.902
55.5	19.426
56.0	18.951
56.5	18.475
57.0	18.000
57.5	17.548
58.0	17.072
58.5	16.621
59.0	16.169
59.5	15.741
60.0	15.289
60.5	14.837
61.0	14.385
61.5	13.957
62.0	13.506
62.5	13.078
63.0	12.650
63.5	12.222
64.0	11.794
64.5	11.366
65.0	10.961
65.5	10.557
66.0	10.153
66.5	9.725
67.0	9.345
67.5	8.964
68.0	8.560
68.5	8.180
69.0	7.799
69.5	7.419
70.0	7.062
70.5	6.682
71.0	6.325
71.5	5.944
72.0	5.588
72.5	5.231
73.0	4.874
73.5	4.518
74.0	4.185
74.5	3.828
75.0	3.495
75.5	3.186
76.0	2.877
76.5	2.639
77.0	2.425
77.5	2.235
78.0	2.092
78.5	1.974
79.0	1.878
79.5	1.783
80.0	1.664
80.5	1.569
81.0	1.474
81.5	1.379
82.0	1.260
82.5	1.165

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CANDELA TABULATION - (Cont.)

83.0	1.094
83.5	0.999
84.0	0.904
84.5	0.808
85.0	0.713
85.5	0.642
86.0	0.547
86.5	0.476
87.0	0.380
87.5	0.309
88.0	0.238
88.5	0.166
89.0	0.095
89.5	0.071
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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PHOTOMETRIC FILENAME : V2DR-L5-930-DIM-UNV-RW-OF-WH_.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
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119.0	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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PHOTOMETRIC FILENAME : V2DR-L5-930-DIM-UNV-RW-OF-WH_.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
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150.5	0.000
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151.5	0.000
152.0	0.000
152.5	0.000
153.0	0.000
153.5	0.000
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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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V2DR-L5-930-DIM-UNV-RW-OF-WH_.IES

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	156.02	N.A.	40.30
0-30	276.20	N.A.	71.40
0-40	329.08	N.A.	85.00
0-60	371.34	N.A.	95.90
0-80	386.24	N.A.	99.80
0-90	387.06	N.A.	100.00
10-90	344.16	N.A.	88.90
20-40	173.05	N.A.	44.70
20-50	197.48	N.A.	51.00
40-70	53.16	N.A.	13.70
60-80	14.90	N.A.	3.80
70-80	4.00	N.A.	1.00
80-90	0.82	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	387.06	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	42.91
10-20	113.11
20-30	120.18
30-40	52.88
40-50	24.43
50-60	17.84
60-70	10.89
70-80	4.00
80-90	0.82
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

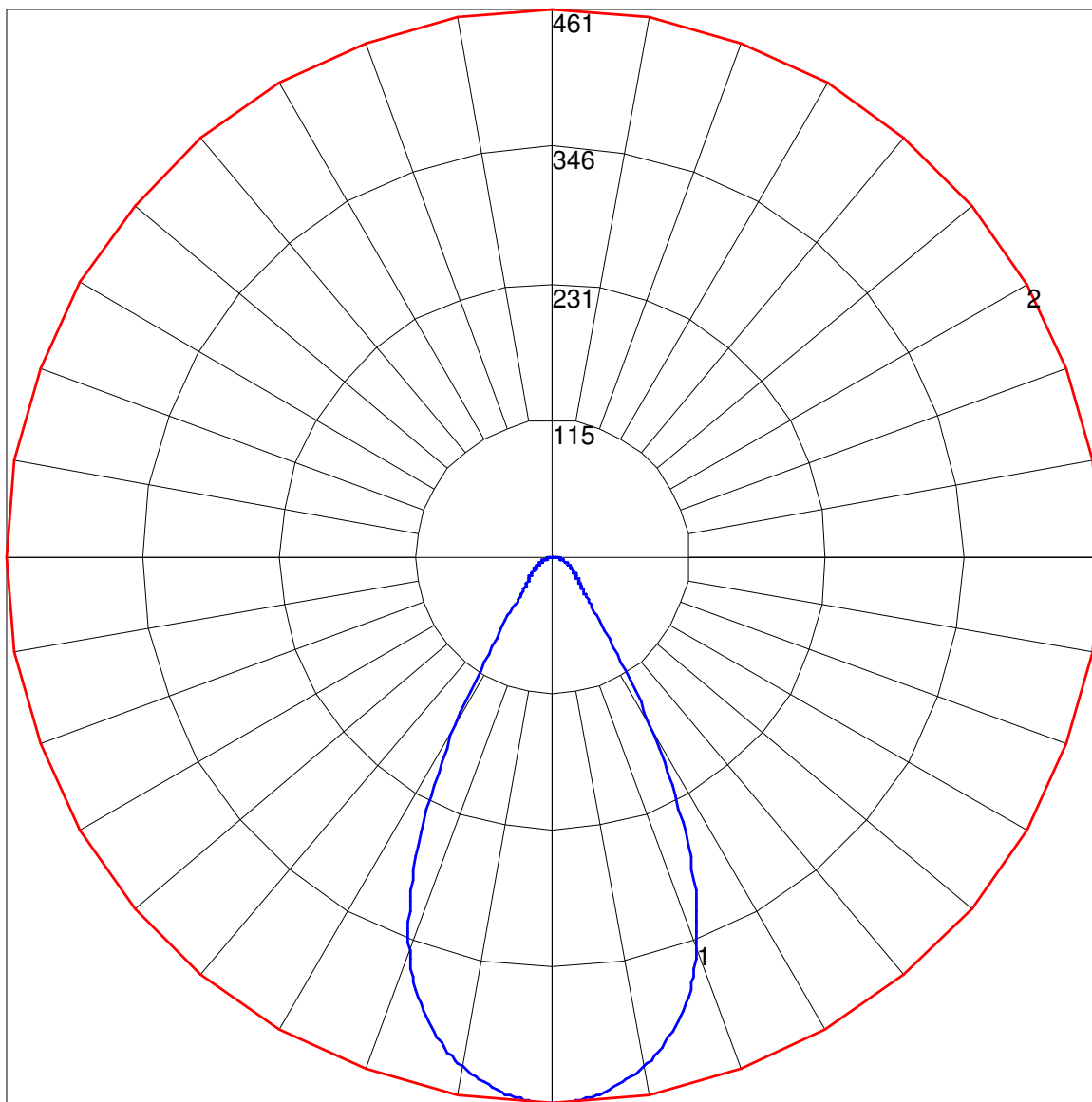
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	15.6	16.7	16.0	17.0	17.3	15.6	16.7	16.0	17.0	17.3
	3H	16.6	17.6	17.0	17.9	18.3	16.6	17.6	17.0	17.9	18.3
	4H	16.8	17.7	17.2	18.1	18.5	16.8	17.7	17.2	18.1	18.5
	6H	16.9	17.7	17.3	18.1	18.5	16.9	17.7	17.3	18.1	18.5
	8H	16.9	17.6	17.3	18.0	18.4	16.9	17.6	17.3	18.0	18.4
	12H	16.8	17.6	17.3	18.0	18.4	16.8	17.6	17.3	18.0	18.4
4H	2H	15.9	16.8	16.3	17.2	17.6	15.9	16.8	16.3	17.2	17.6
	3H	17.1	17.9	17.5	18.3	18.7	17.1	17.9	17.5	18.3	18.7
	4H	17.3	18.0	17.8	18.4	18.9	17.3	18.0	17.8	18.4	18.9
	6H	17.4	18.0	17.9	18.4	18.9	17.4	18.0	17.9	18.4	18.9
	8H	17.4	18.0	17.9	18.4	18.9	17.4	18.0	17.9	18.4	18.9
	12H	17.4	17.9	17.9	18.4	18.8	17.4	17.9	17.9	18.4	18.8
8H	4H	17.3	17.9	17.8	18.3	18.8	17.3	17.9	17.8	18.3	18.8
	6H	17.5	17.9	18.0	18.4	18.9	17.5	17.9	18.0	18.4	18.9
	8H	17.5	17.9	18.0	18.4	18.9	17.5	17.9	18.0	18.4	18.9
	12H	17.5	17.9	18.0	18.4	18.9	17.5	17.9	18.0	18.4	18.9
12H	4H	17.3	17.8	17.8	18.2	18.7	17.3	17.8	17.8	18.2	18.7
	6H	17.4	17.8	18.0	18.3	18.8	17.4	17.8	18.0	18.3	18.8
	8H	17.5	17.8	18.0	18.3	18.9	17.5	17.8	18.0	18.3	18.9

Maximum UGR = 18.9

POLAR GRAPH



Maximum Candela = 461.286 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.)