

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L5-930-DIM-UNV-RW-OF-CS_.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-CS_
[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	379
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	57
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	13600	13600	13600
55	10762	10762	10762
65	8044	8044	8044
75	4188	4188	4188
85	2538	2538	2538

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CANDELA TABULATION

	<u>0</u>
0.0	452.061
0.5	452.061
1.0	451.828
1.5	451.595
2.0	451.595
2.5	451.128
3.0	450.429
3.5	449.497
4.0	448.565
4.5	447.633
5.0	446.235
5.5	445.070
6.0	443.672
6.5	442.041
7.0	440.410
7.5	438.778
8.0	437.147
8.5	435.283
9.0	433.186
9.5	431.322
10.0	429.225
10.5	426.894
11.0	424.331
11.5	421.768
12.0	418.972
12.5	416.175
13.0	413.146
13.5	409.884
14.0	406.388
14.5	402.893
15.0	398.932
15.5	394.970
16.0	390.543
16.5	386.116
17.0	381.455
17.5	376.562
18.0	371.435
18.5	365.843
19.0	360.017
19.5	353.726
20.0	347.201
20.5	340.444
21.0	333.220
21.5	325.763
22.0	317.607
22.5	309.452
23.0	300.830
23.5	291.975
24.0	282.654
24.5	273.334
25.0	263.780
25.5	253.760
26.0	243.507
26.5	233.254

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CANDELA TABULATION - (Cont.)

27.0	223.071
27.5	212.841
28.0	202.518
28.5	192.242
29.0	181.733
29.5	171.154
30.0	160.668
30.5	150.345
31.0	140.162
31.5	130.329
32.0	120.868
32.5	111.920
33.0	103.624
33.5	95.935
34.0	88.781
34.5	82.233
35.0	76.291
35.5	70.838
36.0	65.898
36.5	61.471
37.0	57.533
37.5	54.014
38.0	50.822
38.5	47.979
39.0	45.486
39.5	43.295
40.0	41.338
40.5	39.637
41.0	38.122
41.5	36.771
42.0	35.559
42.5	34.487
43.0	33.508
43.5	32.646
44.0	31.831
44.5	31.085
45.0	30.386
45.5	29.710
46.0	29.081
46.5	28.452
47.0	27.869
47.5	27.287
48.0	26.704
48.5	26.145
49.0	25.586
49.5	25.026
50.0	24.490
50.5	23.978
51.0	23.442
51.5	22.929
52.0	22.440
52.5	21.927
53.0	21.438
53.5	20.949
54.0	20.459
54.5	19.970

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CANDELA TABULATION - (Cont.)

55.0	19.504
55.5	19.038
56.0	18.572
56.5	18.106
57.0	17.640
57.5	17.197
58.0	16.731
58.5	16.288
59.0	15.845
59.5	15.426
60.0	14.983
60.5	14.541
61.0	14.098
61.5	13.678
62.0	13.236
62.5	12.816
63.0	12.397
63.5	11.977
64.0	11.558
64.5	11.138
65.0	10.742
65.5	10.346
66.0	9.950
66.5	9.531
67.0	9.158
67.5	8.785
68.0	8.389
68.5	8.016
69.0	7.643
69.5	7.270
70.0	6.921
70.5	6.548
71.0	6.198
71.5	5.826
72.0	5.476
72.5	5.126
73.0	4.777
73.5	4.427
74.0	4.101
74.5	3.752
75.0	3.425
75.5	3.122
76.0	2.820
76.5	2.587
77.0	2.377
77.5	2.190
78.0	2.051
78.5	1.934
79.0	1.841
79.5	1.748
80.0	1.631
80.5	1.538
81.0	1.445
81.5	1.352
82.0	1.235
82.5	1.142

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CANDELA TABULATION - (Cont.)

83.0	1.072
83.5	0.979
84.0	0.885
84.5	0.792
85.0	0.699
85.5	0.629
86.0	0.536
86.5	0.466
87.0	0.373
87.5	0.303
88.0	0.233
88.5	0.163
89.0	0.093
89.5	0.070
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
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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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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	152.90	N.A.	40.30
0-30	270.67	N.A.	71.40
0-40	322.49	N.A.	85.00
0-60	363.92	N.A.	95.90
0-80	378.52	N.A.	99.80
0-90	379.32	N.A.	100.00
10-90	337.27	N.A.	88.90
20-40	169.59	N.A.	44.70
20-50	193.53	N.A.	51.00
40-70	52.10	N.A.	13.70
60-80	14.60	N.A.	3.80
70-80	3.92	N.A.	1.00
80-90	0.81	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	379.32	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	42.05
10-20	110.85
20-30	117.77
30-40	51.82
40-50	23.94
50-60	17.48
60-70	10.68
70-80	3.92
80-90	0.81
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	111	108	105	103	104	102	100	100	99	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	83	79	75	81	77	74	73
5	91	82	76	72	89	81	76	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	56	52	70	61	55	52	60	55	51	59	55	51	59	54	51	50

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UGR TABLE - CORRECTED

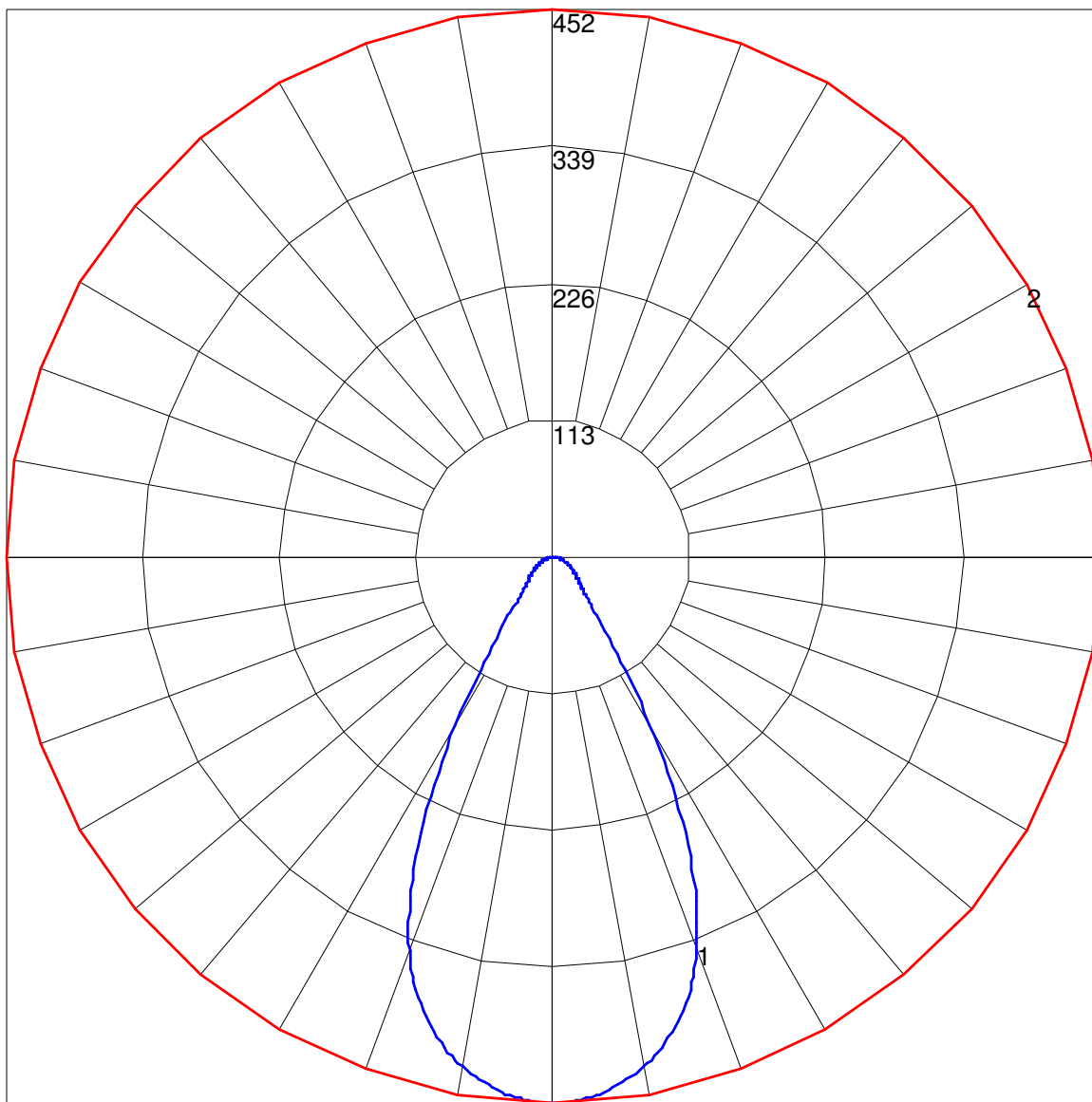
Reflectances

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	15.9	17.0	17.3	15.6	16.7	15.9	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	16.8	17.7	17.3	18.0	18.4	16.8	17.7	17.3	18.0	18.4
	8H	16.8	17.6	17.3	18.0	18.4	16.8	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	17.8	17.5	18.2	18.7	17.1	17.8	17.5	18.2	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	17.9	17.9	18.4	18.9	17.4	17.9	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	17.8	18.0	18.3	18.9	17.5	17.8	18.0	18.3	18.9
12H	4H	17.3	17.7	17.8	18.2	18.7	17.3	17.7	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 = 452.061 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.)