

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L5-830-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-L5-830-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	480
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	72
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	17215	17215	17215
55	13622	13622	13622
65	10183	10183	10183
75	5302	5302	5302
85	3214	3214	3214

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CANDELA TABULATION

	<u>0</u>
0.0	572.229
0.5	572.229
1.0	571.934
1.5	571.639
2.0	571.639
2.5	571.049
3.0	570.164
3.5	568.984
4.0	567.804
4.5	566.624
5.0	564.855
5.5	563.380
6.0	561.610
6.5	559.545
7.0	557.480
7.5	555.416
8.0	553.351
8.5	550.991
9.0	548.337
9.5	545.977
10.0	543.322
10.5	540.373
11.0	537.128
11.5	533.883
12.0	530.344
12.5	526.804
13.0	522.970
13.5	518.840
14.0	514.416
14.5	509.991
15.0	504.977
15.5	499.963
16.0	494.358
16.5	488.754
17.0	482.855
17.5	476.661
18.0	470.171
18.5	463.092
19.0	455.718
19.5	447.754
20.0	439.495
20.5	430.941
21.0	421.797
21.5	412.359
22.0	402.035
22.5	391.711
23.0	380.798
23.5	369.589
24.0	357.790
24.5	345.992
25.0	333.898
25.5	321.215
26.0	308.237
26.5	295.258

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CANDELA TABULATION - (Cont.)

27.0	282.368
27.5	269.419
28.0	256.353
28.5	243.345
29.0	230.042
29.5	216.650
30.0	203.377
30.5	190.310
31.0	177.420
31.5	164.973
32.0	152.997
32.5	141.671
33.0	131.170
33.5	121.436
34.0	112.381
34.5	104.093
35.0	96.571
35.5	89.669
36.0	83.416
36.5	77.811
37.0	72.826
37.5	68.372
38.0	64.331
38.5	60.733
39.0	57.577
39.5	54.804
40.0	52.326
40.5	50.173
41.0	48.256
41.5	46.545
42.0	45.011
42.5	43.655
43.0	42.416
43.5	41.324
44.0	40.292
44.5	39.348
45.0	38.463
45.5	37.608
46.0	36.811
46.5	36.015
47.0	35.278
47.5	34.540
48.0	33.803
48.5	33.095
49.0	32.387
49.5	31.679
50.0	31.001
50.5	30.352
51.0	29.673
51.5	29.024
52.0	28.405
52.5	27.756
53.0	27.137
53.5	26.517
54.0	25.898
54.5	25.278

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CANDELA TABULATION - (Cont.)

55.0	24.688
55.5	24.098
56.0	23.509
56.5	22.919
57.0	22.329
57.5	21.768
58.0	21.178
58.5	20.618
59.0	20.057
59.5	19.527
60.0	18.966
60.5	18.406
61.0	17.845
61.5	17.314
62.0	16.754
62.5	16.223
63.0	15.692
63.5	15.161
64.0	14.630
64.5	14.099
65.0	13.598
65.5	13.096
66.0	12.595
66.5	12.064
67.0	11.592
67.5	11.120
68.0	10.619
68.5	10.147
69.0	9.675
69.5	9.203
70.0	8.760
70.5	8.288
71.0	7.846
71.5	7.374
72.0	6.932
72.5	6.489
73.0	6.047
73.5	5.604
74.0	5.191
74.5	4.749
75.0	4.336
75.5	3.953
76.0	3.569
76.5	3.274
77.0	3.009
77.5	2.773
78.0	2.596
78.5	2.448
79.0	2.330
79.5	2.212
80.0	2.065
80.5	1.947
81.0	1.829
81.5	1.711
82.0	1.563
82.5	1.445

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CANDELA TABULATION - (Cont.)

83.0	1.357
83.5	1.239
84.0	1.121
84.5	1.003
85.0	0.885
85.5	0.796
86.0	0.678
86.5	0.590
87.0	0.472
87.5	0.383
88.0	0.295
88.5	0.206
89.0	0.118
89.5	0.088
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
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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
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
153.5	0.000
154.0	0.000
154.5	0.000
155.0	0.000
155.5	0.000
156.0	0.000
156.5	0.000
157.0	0.000
157.5	0.000
158.0	0.000
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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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	193.55	N.A.	40.30
0-30	342.63	N.A.	71.40
0-40	408.22	N.A.	85.00
0-60	460.65	N.A.	95.90
0-80	479.13	N.A.	99.80
0-90	480.15	N.A.	100.00
10-90	426.93	N.A.	88.90
20-40	214.68	N.A.	44.70
20-50	244.98	N.A.	51.00
40-70	65.95	N.A.	13.70
60-80	18.48	N.A.	3.80
70-80	4.97	N.A.	1.00
80-90	1.02	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	480.15	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	53.23
10-20	140.32
20-30	149.08
30-40	65.59
40-50	30.30
50-60	22.13
60-70	13.51
70-80	4.97
80-90	1.02
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

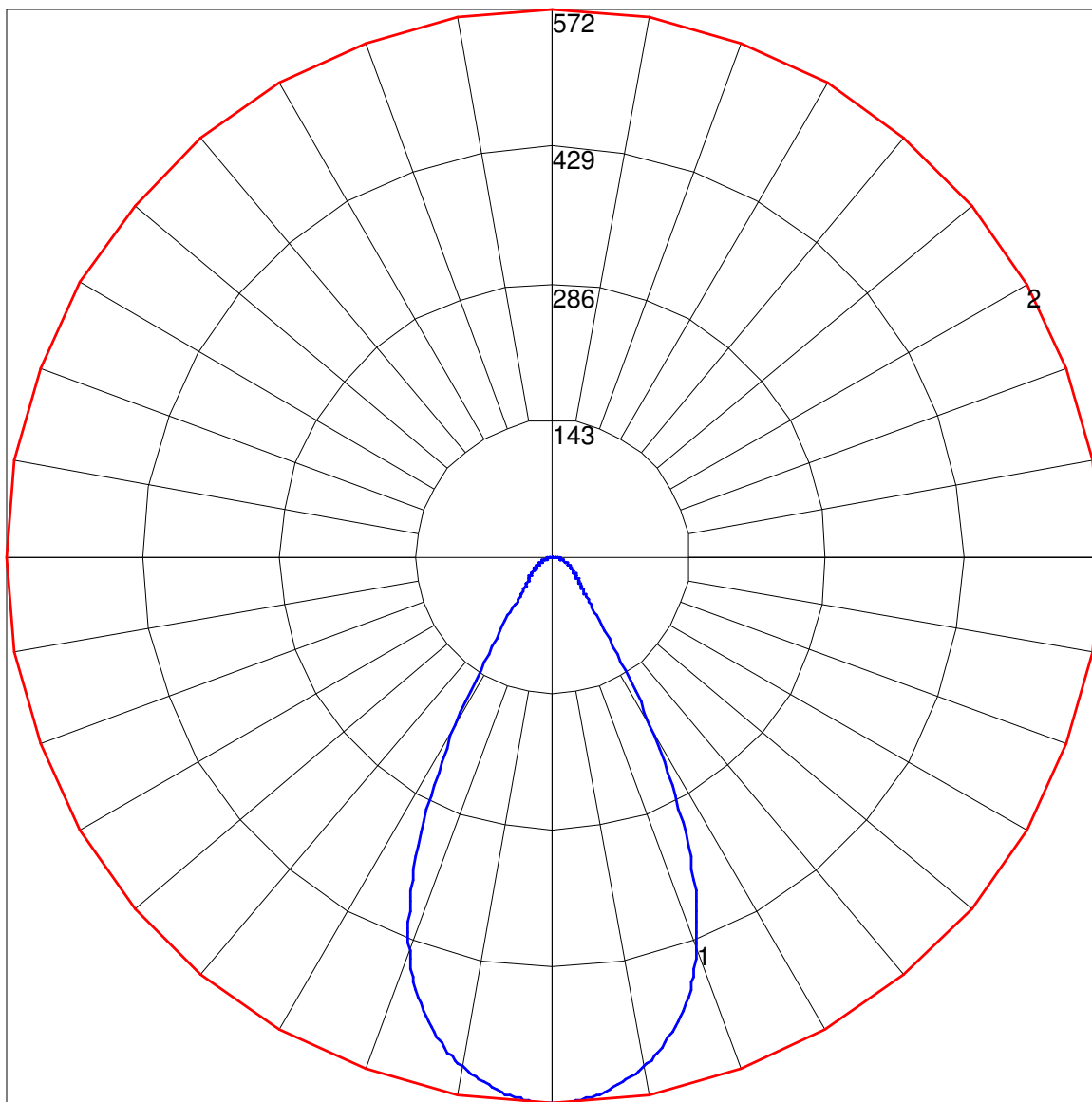
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UGR TABLE - CORRECTED

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					UGR Viewed Endwise				
X=2H	Y=2H	16.4	17.5	16.8	17.8	18.1	16.4	17.5	16.8	17.8	18.1
	3H	17.4	18.4	17.8	18.7	19.1	17.4	18.4	17.8	18.7	19.1
	4H	17.6	18.5	18.0	18.9	19.3	17.6	18.5	18.0	18.9	19.3
	6H	17.7	18.5	18.1	18.9	19.3	17.7	18.5	18.1	18.9	19.3
	8H	17.7	18.4	18.1	18.8	19.2	17.7	18.4	18.1	18.8	19.2
	12H	17.6	18.4	18.1	18.8	19.2	17.6	18.4	18.1	18.8	19.2
4H	2H	16.7	17.6	17.1	18.0	18.4	16.7	17.6	17.1	18.0	18.4
	3H	17.9	18.6	18.3	19.1	19.5	17.9	18.6	18.3	19.1	19.5
	4H	18.1	18.8	18.6	19.2	19.7	18.1	18.8	18.6	19.2	19.7
	6H	18.2	18.8	18.7	19.2	19.7	18.2	18.8	18.7	19.2	19.7
	8H	18.2	18.7	18.7	19.2	19.7	18.2	18.7	18.7	19.2	19.7
	12H	18.2	18.7	18.7	19.2	19.6	18.2	18.7	18.7	19.2	19.6
8H	4H	18.1	18.7	18.6	19.1	19.6	18.1	18.7	18.6	19.1	19.6
	6H	18.3	18.7	18.8	19.2	19.7	18.3	18.7	18.8	19.2	19.7
	8H	18.3	18.7	18.8	19.2	19.7	18.3	18.7	18.8	19.2	19.7
	12H	18.3	18.7	18.8	19.1	19.7	18.3	18.7	18.8	19.1	19.7
12H	4H	18.1	18.6	18.6	19.0	19.5	18.1	18.6	18.6	19.0	19.5
	6H	18.2	18.6	18.8	19.1	19.6	18.2	18.6	18.8	19.1	19.6
	8H	18.3	18.6	18.8	19.1	19.7	18.3	18.6	18.8	19.1	19.7

Maximum UGR = 19.7

POLAR GRAPH



Maximum Candela = 572.229 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.)