

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L5-835-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-L5-835-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	490
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	73
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	17566	17566	17566
55	13900	13900	13900
65	10390	10390	10390
75	5410	5410	5410
85	3279	3279	3279

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CANDELA TABULATION

	<u>0</u>
0.0	583.907
0.5	583.907
1.0	583.606
1.5	583.305
2.0	583.305
2.5	582.703
3.0	581.800
3.5	580.596
4.0	579.392
4.5	578.188
5.0	576.382
5.5	574.877
6.0	573.071
6.5	570.964
7.0	568.857
7.5	566.751
8.0	564.644
8.5	562.236
9.0	559.527
9.5	557.119
10.0	554.410
10.5	551.400
11.0	548.090
11.5	544.779
12.0	541.167
12.5	537.555
13.0	533.643
13.5	529.429
14.0	524.914
14.5	520.399
15.0	515.283
15.5	510.166
16.0	504.447
16.5	498.729
17.0	492.709
17.5	486.388
18.0	479.767
18.5	472.543
19.0	465.018
19.5	456.892
20.0	448.464
20.5	439.736
21.0	430.405
21.5	420.774
22.0	410.240
22.5	399.705
23.0	388.569
23.5	377.131
24.0	365.092
24.5	353.053
25.0	340.713
25.5	327.770
26.0	314.527
26.5	301.284

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CANDELA TABULATION - (Cont.)

27.0	288.131
27.5	274.918
28.0	261.584
28.5	248.311
29.0	234.736
29.5	221.072
30.0	207.528
30.5	194.194
31.0	181.041
31.5	168.340
32.0	156.120
32.5	144.562
33.0	133.847
33.5	123.915
34.0	114.674
34.5	106.217
35.0	98.542
35.5	91.499
36.0	85.118
36.5	79.399
37.0	74.313
37.5	69.768
38.0	65.644
38.5	61.972
39.0	58.752
39.5	55.923
40.0	53.394
40.5	51.197
41.0	49.241
41.5	47.495
42.0	45.930
42.5	44.545
43.0	43.281
43.5	42.168
44.0	41.114
44.5	40.151
45.0	39.248
45.5	38.375
46.0	37.563
46.5	36.750
47.0	35.998
47.5	35.245
48.0	34.493
48.5	33.770
49.0	33.048
49.5	32.326
50.0	31.633
50.5	30.971
51.0	30.279
51.5	29.617
52.0	28.985
52.5	28.322
53.0	27.690
53.5	27.058
54.0	26.426
54.5	25.794

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CANDELA TABULATION - (Cont.)

55.0	25.192
55.5	24.590
56.0	23.988
56.5	23.386
57.0	22.784
57.5	22.213
58.0	21.611
58.5	21.039
59.0	20.467
59.5	19.925
60.0	19.353
60.5	18.781
61.0	18.209
61.5	17.668
62.0	17.096
62.5	16.554
63.0	16.012
63.5	15.471
64.0	14.929
64.5	14.387
65.0	13.875
65.5	13.364
66.0	12.852
66.5	12.310
67.0	11.829
67.5	11.347
68.0	10.835
68.5	10.354
69.0	9.872
69.5	9.391
70.0	8.939
70.5	8.458
71.0	8.006
71.5	7.525
72.0	7.073
72.5	6.622
73.0	6.170
73.5	5.719
74.0	5.297
74.5	4.846
75.0	4.424
75.5	4.033
76.0	3.642
76.5	3.341
77.0	3.070
77.5	2.829
78.0	2.649
78.5	2.498
79.0	2.378
79.5	2.257
80.0	2.107
80.5	1.986
81.0	1.866
81.5	1.746
82.0	1.595
82.5	1.475

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CANDELA TABULATION - (Cont.)

83.0	1.385
83.5	1.264
84.0	1.144
84.5	1.023
85.0	0.903
85.5	0.813
86.0	0.692
86.5	0.602
87.0	0.482
87.5	0.391
88.0	0.301
88.5	0.211
89.0	0.120
89.5	0.090
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
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129.0	0.000
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130.0	0.000
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131.0	0.000
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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

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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	197.50	N.A.	40.30
0-30	349.62	N.A.	71.40
0-40	416.55	N.A.	85.00
0-60	470.05	N.A.	95.90
0-80	488.91	N.A.	99.80
0-90	489.95	N.A.	100.00
10-90	435.64	N.A.	88.90
20-40	219.06	N.A.	44.70
20-50	249.98	N.A.	51.00
40-70	67.29	N.A.	13.70
60-80	18.86	N.A.	3.80
70-80	5.07	N.A.	1.00
80-90	1.04	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	489.95	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	54.31
10-20	143.18
20-30	152.12
30-40	66.93
40-50	30.92
50-60	22.58
60-70	13.79
70-80	5.07
80-90	1.04
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	79
4	96	88	82	78	94	87	81	77	84	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	72	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	61	57	54	53
10	71	61	55	52	70	61	55	51	60	55	51	59	55	51	59	54	51	50

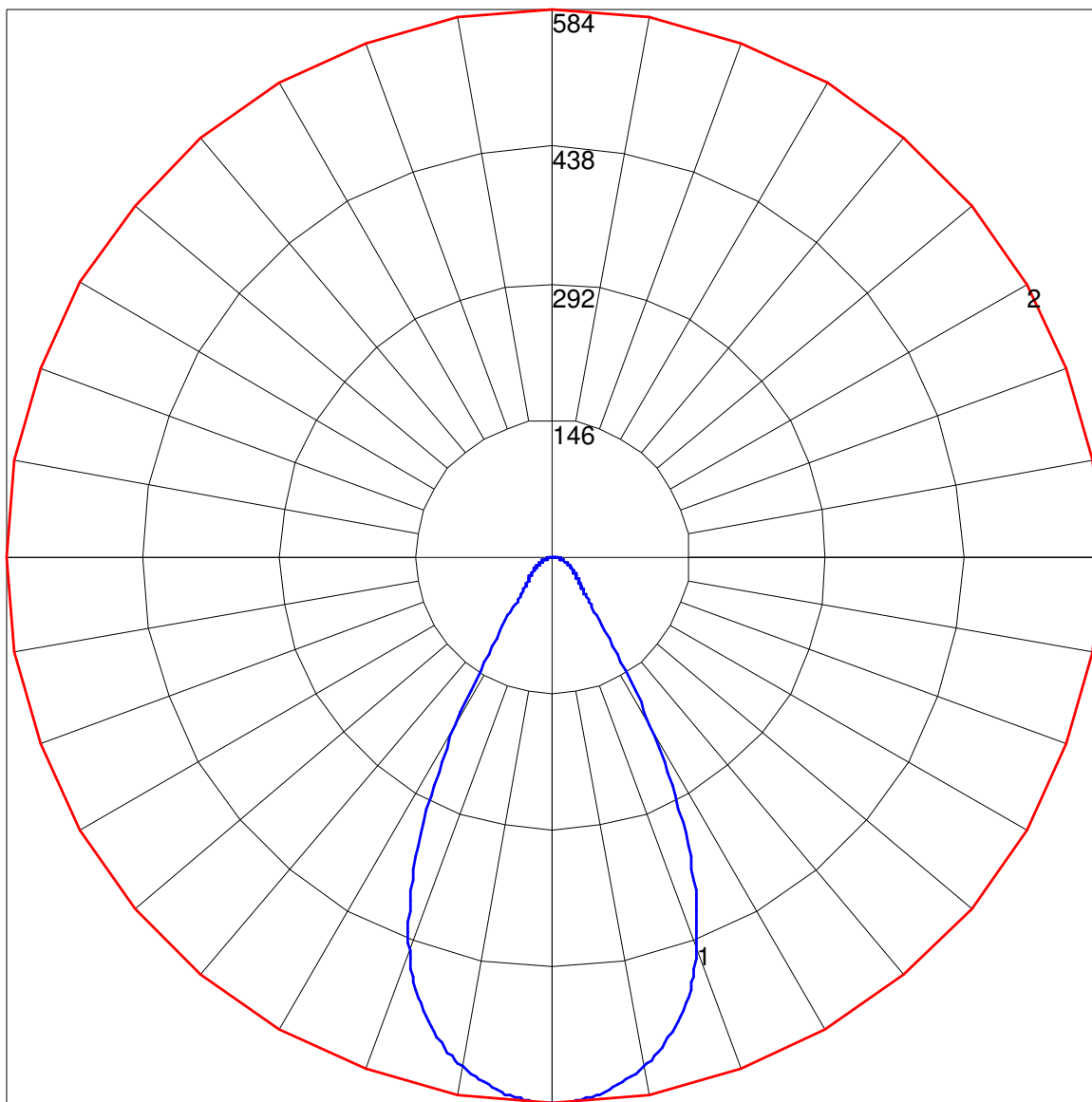
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UGR TABLE - CORRECTED

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					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	17.6	18.5	18.1	18.9	19.3	17.6	18.5	18.1	18.9	19.3
	8H	17.6	18.4	18.1	18.8	19.2	17.6	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	18.6	18.8	19.1	19.7	18.3	18.6	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 = 583.907 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.)