

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L8-840-DIM-UNV-RW-OF-BL_.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-L8-840-DIM-UNV-RW-OF-BL_
[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	637
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	60
Total Luminaire Watts	10.7
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	22827	22827	22827
55	18063	18063	18063
65	13502	13502	13502
75	7030	7030	7030
85	4259	4259	4259

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CANDELA TABULATION

	<u>0</u>
0.0	758.750
0.5	758.750
1.0	758.359
1.5	757.968
2.0	757.968
2.5	757.186
3.0	756.012
3.5	754.448
4.0	752.883
4.5	751.319
5.0	748.972
5.5	747.017
6.0	744.670
6.5	741.932
7.0	739.195
7.5	736.457
8.0	733.719
8.5	730.590
9.0	727.070
9.5	723.941
10.0	720.421
10.5	716.510
11.0	712.208
11.5	707.906
12.0	703.213
12.5	698.519
13.0	693.435
13.5	687.959
14.0	682.093
14.5	676.226
15.0	669.577
15.5	662.928
16.0	655.497
16.5	648.066
17.0	640.244
17.5	632.031
18.0	623.426
18.5	614.040
19.0	604.262
19.5	593.702
20.0	582.751
20.5	571.409
21.0	559.285
21.5	546.769
22.0	533.080
22.5	519.392
23.0	504.921
23.5	490.059
24.0	474.414
24.5	458.770
25.0	442.734
25.5	425.917
26.0	408.708
26.5	391.499

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CANDELA TABULATION - (Cont.)

27.0	374.408
27.5	357.238
28.0	339.912
28.5	322.664
29.0	305.025
29.5	287.269
30.0	269.669
30.5	252.343
31.0	235.252
31.5	218.747
32.0	202.868
32.5	187.849
33.0	173.926
33.5	161.019
34.0	149.012
34.5	138.022
35.0	128.049
35.5	118.897
36.0	110.605
36.5	103.174
37.0	96.565
37.5	90.659
38.0	85.301
38.5	80.529
39.0	76.344
39.5	72.668
40.0	69.383
40.5	66.528
41.0	63.985
41.5	61.717
42.0	59.683
42.5	57.884
43.0	56.241
43.5	54.794
44.0	53.425
44.5	52.174
45.0	51.001
45.5	49.866
46.0	48.810
46.5	47.754
47.0	46.777
47.5	45.799
48.0	44.821
48.5	43.882
49.0	42.944
49.5	42.005
50.0	41.105
50.5	40.245
51.0	39.345
51.5	38.485
52.0	37.664
52.5	36.803
53.0	35.982
53.5	35.161
54.0	34.339
54.5	33.518

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CANDELA TABULATION - (Cont.)

55.0	32.736
55.5	31.954
56.0	31.171
56.5	30.389
57.0	29.607
57.5	28.864
58.0	28.082
58.5	27.338
59.0	26.595
59.5	25.891
60.0	25.148
60.5	24.405
61.0	23.662
61.5	22.958
62.0	22.215
62.5	21.511
63.0	20.807
63.5	20.103
64.0	19.399
64.5	18.695
65.0	18.030
65.5	17.365
66.0	16.700
66.5	15.996
67.0	15.371
67.5	14.745
68.0	14.080
68.5	13.454
69.0	12.828
69.5	12.203
70.0	11.616
70.5	10.990
71.0	10.403
71.5	9.778
72.0	9.191
72.5	8.604
73.0	8.018
73.5	7.431
74.0	6.884
74.5	6.297
75.0	5.749
75.5	5.241
76.0	4.732
76.5	4.341
77.0	3.989
77.5	3.676
78.0	3.442
78.5	3.246
79.0	3.090
79.5	2.933
80.0	2.738
80.5	2.581
81.0	2.425
81.5	2.268
82.0	2.073
82.5	1.916

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CANDELA TABULATION - (Cont.)

83.0	1.799
83.5	1.643
84.0	1.486
84.5	1.330
85.0	1.173
85.5	1.056
86.0	0.900
86.5	0.782
87.0	0.626
87.5	0.508
88.0	0.391
88.5	0.274
89.0	0.156
89.5	0.117
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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132.0	0.000
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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	256.63	N.A.	40.30
0-30	454.31	N.A.	71.40
0-40	541.28	N.A.	85.00
0-60	610.81	N.A.	95.90
0-80	635.31	N.A.	99.80
0-90	636.66	N.A.	100.00
10-90	566.09	N.A.	88.90
20-40	284.65	N.A.	44.70
20-50	324.83	N.A.	51.00
40-70	87.44	N.A.	13.70
60-80	24.50	N.A.	3.80
70-80	6.58	N.A.	1.00
80-90	1.35	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	636.66	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	70.58
10-20	186.06
20-30	197.67
30-40	86.98
40-50	40.18
50-60	29.34
60-70	17.92
70-80	6.58
80-90	1.35
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	96	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	78
4	96	88	82	78	94	87	81	77	84	80	76	82	78	75	81	77	74	73
5	91	82	76	71	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	70	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	74	65	59	55	73	64	58	54	63	58	54	62	58	54	61	57	54	53
10	71	61	55	52	70	61	55	51	60	55	51	59	54	51	59	54	51	50

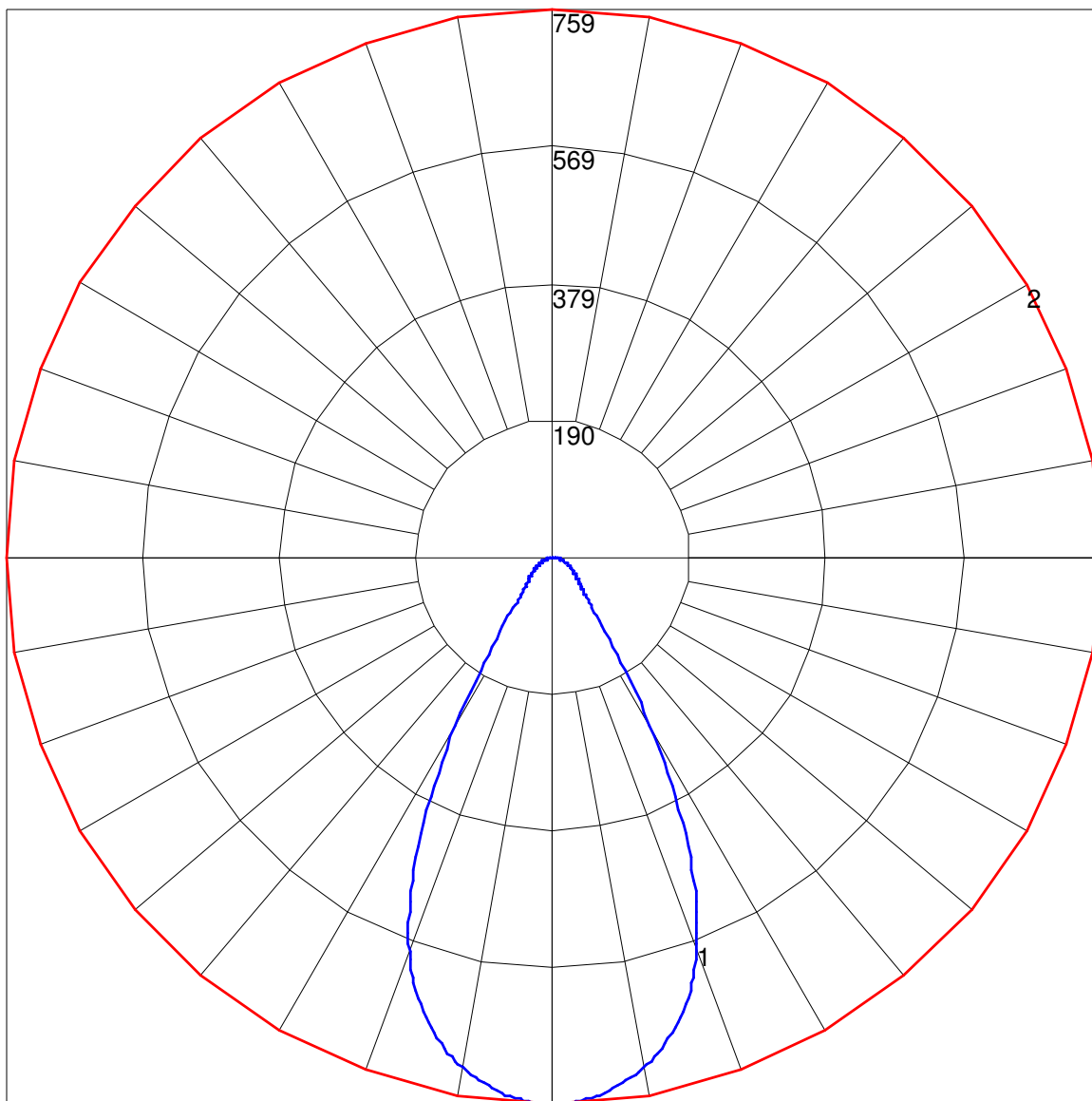
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UGR TABLE - CORRECTED

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	17.4	18.5	17.8	18.8	19.1	17.4	18.5	17.8	18.8	19.1
	3H	18.4	19.4	18.8	19.7	20.1	18.4	19.4	18.8	19.7	20.1
	4H	18.6	19.5	19.0	19.9	20.3	18.6	19.5	19.0	19.9	20.3
	6H	18.6	19.5	19.1	19.9	20.3	18.6	19.5	19.1	19.9	20.3
	8H	18.6	19.4	19.1	19.8	20.2	18.6	19.4	19.1	19.8	20.2
	12H	18.6	19.4	19.1	19.8	20.2	18.6	19.4	19.1	19.8	20.2
4H	2H	17.7	18.6	18.1	19.0	19.4	17.7	18.6	18.1	19.0	19.4
	3H	18.9	19.6	19.3	20.1	20.5	18.9	19.6	19.3	20.1	20.5
	4H	19.1	19.8	19.6	20.2	20.7	19.1	19.8	19.6	20.2	20.7
	6H	19.2	19.8	19.7	20.2	20.7	19.2	19.8	19.7	20.2	20.7
	8H	19.2	19.7	19.7	20.2	20.7	19.2	19.7	19.7	20.2	20.7
	12H	19.2	19.7	19.7	20.2	20.6	19.2	19.7	19.7	20.2	20.6
8H	4H	19.1	19.7	19.6	20.1	20.6	19.1	19.7	19.6	20.1	20.6
	6H	19.3	19.7	19.8	20.2	20.7	19.3	19.7	19.8	20.2	20.7
	8H	19.3	19.7	19.8	20.2	20.7	19.3	19.7	19.8	20.2	20.7
	12H	19.3	19.6	19.8	20.1	20.7	19.3	19.6	19.8	20.1	20.7
12H	4H	19.1	19.5	19.6	20.0	20.5	19.1	19.5	19.6	20.0	20.5
	6H	19.2	19.6	19.8	20.1	20.6	19.2	19.6	19.8	20.1	20.6
	8H	19.3	19.6	19.8	20.1	20.7	19.3	19.6	19.8	20.1	20.7

Maximum UGR = 20.7

POLAR GRAPH



Maximum Candela = 758.75 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.)