

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V4DR-L14-835-(L11)-DIM-UNV-LW-OF-CS_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN from UL #12316380.07

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 01 OCT 2025

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.

[LUMCAT] V4DR-L14-835-(L11)-DIM-UNV-LW-OF-CS

[LAMP] One white LED

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor, Classroom, Commercial, Corridor, Hotel, Industrial, Office, Downlight

[_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1098
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	69
Total Luminaire Watts	16
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.00
Spacing Criterion (90-270)	1.00
Spacing Criterion (Diagonal)	0.90
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.35 ft (Diameter)
Luminous Width (90-270)	0.35 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	30309	30309	30309
55	24905	24905	24905
65	18220	18220	18220
75	12613	12613	12613
85	6876	6876	6876

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CANDELA TABULATION

	<u>0</u>
0.0	771.525
0.5	771.281
1.0	770.794
1.5	770.144
2.0	769.493
2.5	768.762
3.0	767.787
3.5	767.218
4.0	766.812
4.5	766.568
5.0	766.243
5.5	765.918
6.0	765.674
6.5	765.349
7.0	765.106
7.5	764.943
8.0	764.862
8.5	764.618
9.0	764.374
9.5	763.887
10.0	763.562
10.5	762.993
11.0	762.424
11.5	761.693
12.0	760.880
12.5	759.905
13.0	758.768
13.5	757.468
14.0	755.843
14.5	753.892
15.0	751.536
15.5	748.692
16.0	745.523
16.5	741.785
17.0	737.722
17.5	733.172
18.0	727.809
18.5	722.284
19.0	716.271
19.5	709.527
20.0	702.132
20.5	694.088
21.0	685.394
21.5	676.049
22.0	665.730
22.5	654.760
23.0	642.978
23.5	630.302
24.0	616.651
24.5	602.106
25.0	586.343
25.5	569.848
26.0	552.215
26.5	533.526

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CANDELA TABULATION - (Cont.)

27.0	514.187
27.5	494.036
28.0	473.559
28.5	453.002
29.0	432.850
29.5	413.105
30.0	394.091
30.5	376.215
31.0	359.476
31.5	344.200
32.0	330.305
32.5	317.792
33.0	306.660
33.5	296.747
34.0	287.890
34.5	280.089
35.0	273.020
35.5	266.601
36.0	260.913
36.5	255.550
37.0	250.674
37.5	246.124
38.0	241.899
38.5	237.836
39.0	234.098
39.5	230.442
40.0	227.029
40.5	223.616
41.0	220.366
41.5	217.197
42.0	214.191
42.5	211.184
43.0	208.178
43.5	205.171
44.0	202.165
44.5	199.158
45.0	196.152
45.5	193.145
46.0	190.139
46.5	187.132
47.0	183.963
47.5	180.794
48.0	177.625
48.5	174.375
49.0	171.044
49.5	167.712
50.0	164.462
50.5	161.130
51.0	157.799
51.5	154.467
52.0	151.217
52.5	147.967
53.0	144.636
53.5	141.223
54.0	137.729
54.5	134.235

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CANDELA TABULATION - (Cont.)

55.0	130.741
55.5	127.247
56.0	123.834
56.5	120.503
57.0	117.171
57.5	113.840
58.0	110.589
58.5	107.420
59.0	104.251
59.5	101.164
60.0	98.157
60.5	95.151
61.0	92.225
61.5	89.382
62.0	86.538
62.5	83.694
63.0	80.980
63.5	78.282
64.0	75.633
64.5	73.025
65.0	70.473
65.5	67.987
66.0	65.533
66.5	63.144
67.0	60.812
67.5	58.521
68.0	56.302
68.5	54.133
69.0	51.963
69.5	49.867
70.0	47.827
70.5	45.820
71.0	43.862
71.5	41.952
72.0	40.108
72.5	38.288
73.0	36.516
73.5	34.794
74.0	33.104
74.5	31.470
75.0	29.878
75.5	28.334
76.0	26.823
76.5	25.352
77.0	23.946
77.5	22.549
78.0	21.200
78.5	19.891
79.0	18.608
79.5	17.373
80.0	16.162
80.5	14.984
81.0	13.822
81.5	12.692
82.0	11.587
82.5	10.515

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CANDELA TABULATION - (Cont.)

83.0	9.450
83.5	8.418
84.0	7.411
84.5	6.427
85.0	5.485
85.5	4.575
86.0	3.705
86.5	2.885
87.0	2.161
87.5	1.560
88.0	1.089
88.5	0.691
89.0	0.431
89.5	0.293
90.0	0.203
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
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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
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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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157.0	0.000
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158.0	0.000
158.5	0.000
159.0	0.000
159.5	0.000
160.0	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	283.40	N.A.	25.80
0-30	543.59	N.A.	49.50
0-40	720.82	N.A.	65.60
0-60	988.73	N.A.	90.00
0-80	1091.43	N.A.	99.40
0-90	1098.3	N.A.	100.00
10-90	1025.22	N.A.	93.30
20-40	437.42	N.A.	39.80
20-50	588.48	N.A.	53.60
40-70	338.38	N.A.	30.80
60-80	102.70	N.A.	9.40
70-80	32.23	N.A.	2.90
80-90	6.87	N.A.	0.60
90-110	0.01	N.A.	0.00
90-120	0.01	N.A.	0.00
90-130	0.01	N.A.	0.00
90-150	0.01	N.A.	0.00
90-180	0.01	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1098.3	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	73.08
10-20	210.32
20-30	260.19
30-40	177.23
40-50	151.06
50-60	116.85
60-70	70.47
70-80	32.23
80-90	6.87
90-100	0.01
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	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	51
7	74	62	55	50	72	62	54	49	60	54	49	59	53	49	58	52	49	47
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	43
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37

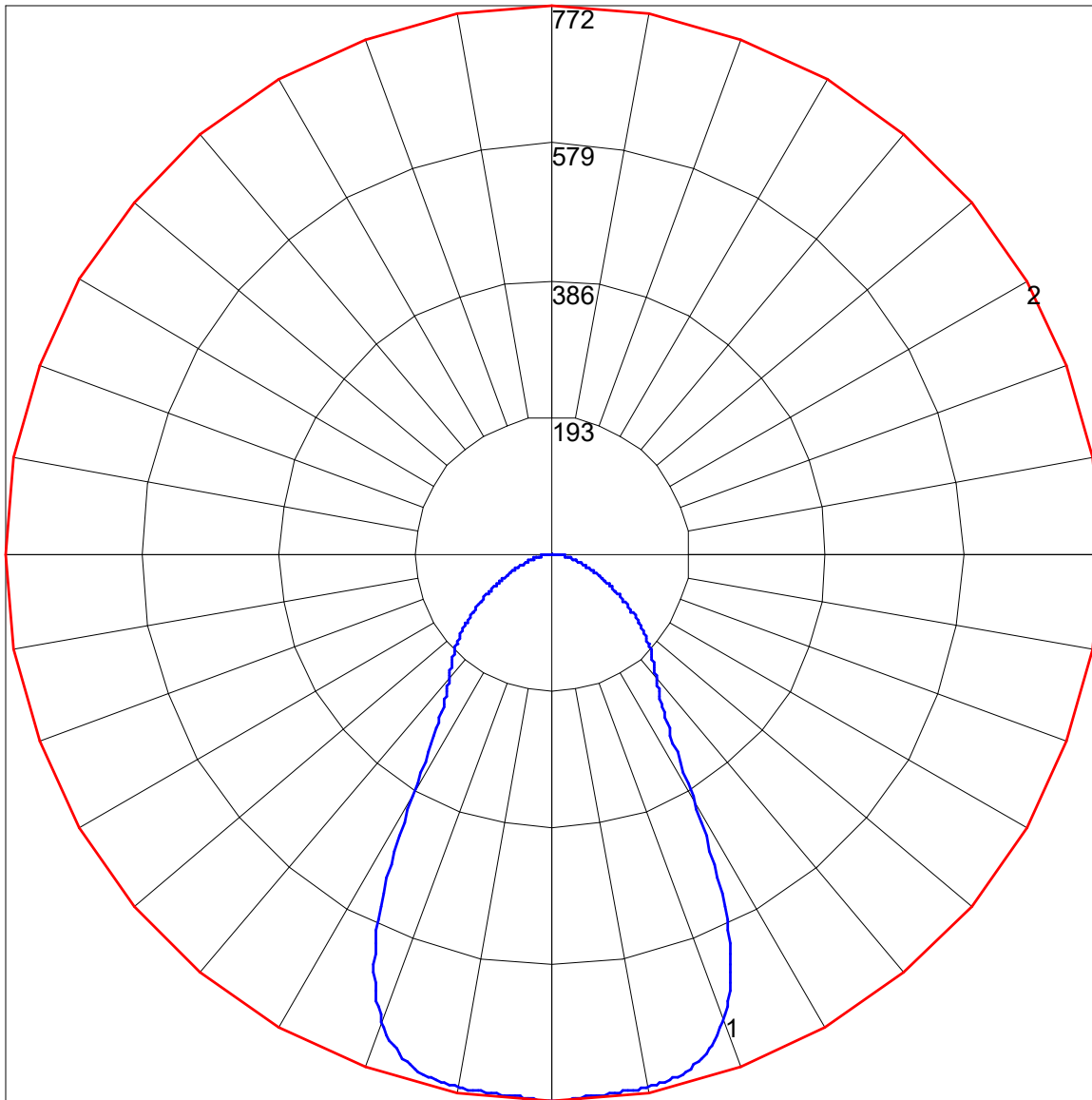
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UGR TABLE - CORRECTED

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	20.9	22.3	21.3	22.6	22.9	20.9	22.3	21.3	22.6	22.9
	3H	22.0	23.2	22.4	23.6	23.9	22.0	23.2	22.4	23.6	23.9
	4H	22.4	23.5	22.8	23.9	24.2	22.4	23.5	22.8	23.9	24.2
	6H	22.6	23.6	23.0	24.0	24.4	22.6	23.6	23.0	24.0	24.4
	8H	22.6	23.6	23.1	24.0	24.4	22.6	23.6	23.1	24.0	24.4
	12H	22.6	23.6	23.1	24.0	24.4	22.6	23.6	23.1	24.0	24.4
4H	2H	21.3	22.4	21.7	22.8	23.1	21.3	22.4	21.7	22.8	23.1
	3H	22.6	23.5	23.0	23.9	24.3	22.6	23.5	23.0	23.9	24.3
	4H	23.0	23.9	23.4	24.3	24.7	23.0	23.9	23.4	24.3	24.7
	6H	23.3	24.1	23.8	24.5	25.0	23.3	24.1	23.8	24.5	25.0
	8H	23.4	24.1	23.9	24.5	25.0	23.4	24.1	23.9	24.5	25.0
	12H	23.4	24.0	23.9	24.5	25.0	23.4	24.0	23.9	24.5	25.0
8H	4H	23.1	23.8	23.6	24.3	24.7	23.1	23.8	23.6	24.3	24.7
	6H	23.5	24.1	24.0	24.6	25.1	23.5	24.1	24.0	24.6	25.1
	8H	23.6	24.1	24.2	24.7	25.1	23.6	24.1	24.2	24.7	25.1
	12H	23.7	24.2	24.2	24.6	25.2	23.7	24.2	24.2	24.6	25.2
12H	4H	23.1	23.7	23.6	24.2	24.7	23.1	23.7	23.6	24.2	24.7
	6H	23.5	24.0	24.1	24.5	25.0	23.5	24.0	24.1	24.5	25.0
	8H	23.7	24.1	24.2	24.6	25.2	23.7	24.1	24.2	24.6	25.2

Maximum UGR = 25.2

POLAR GRAPH



Maximum Candela = 771.525 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.)