

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V4DR-L14-835-(L11)-EM7W-DIM-UNV-LW-OF-CS_EMER MODE ONLY.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)-EM7W-DIM-UNV-LW-OF-CS

[LAMP] One white LED

[_SEARCH_SOURCE TYPE] 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	483
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	69
Total Luminaire Watts	7
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	13333	13333	13333
55	10956	10956	10956
65	8015	8015	8015
75	5548	5548	5548
85	3025	3025	3025

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CANDELA TABULATION

	<u>0</u>
0.0	339.387
0.5	339.279
1.0	339.065
1.5	338.779
2.0	338.493
2.5	338.171
3.0	337.742
3.5	337.492
4.0	337.313
4.5	337.206
5.0	337.063
5.5	336.920
6.0	336.813
6.5	336.670
7.0	336.563
7.5	336.491
8.0	336.456
8.5	336.348
9.0	336.241
9.5	336.027
10.0	335.884
10.5	335.634
11.0	335.383
11.5	335.062
12.0	334.704
12.5	334.275
13.0	333.775
13.5	333.203
14.0	332.488
14.5	331.630
15.0	330.594
15.5	329.343
16.0	327.949
16.5	326.304
17.0	324.517
17.5	322.516
18.0	320.156
18.5	317.726
19.0	315.081
19.5	312.114
20.0	308.861
20.5	305.323
21.0	301.498
21.5	297.388
22.0	292.848
22.5	288.023
23.0	282.840
23.5	277.264
24.0	271.259
24.5	264.861
25.0	257.927
25.5	250.671
26.0	242.914
26.5	234.693

IES INDOOR REPORT**PHOTOMETRIC FILENAME : V4DR-L14-835-(L11)-EM7W-DIM-UNV-LW-OF-CS_EMER MODE ONLY.IES****CANDELA TABULATION - (Cont.)**

27.0	226.186
27.5	217.322
28.0	208.314
28.5	199.271
29.0	190.407
29.5	181.721
30.0	173.357
30.5	165.493
31.0	158.130
31.5	151.410
32.0	145.298
32.5	139.794
33.0	134.897
33.5	130.536
34.0	126.640
34.5	123.209
35.0	120.099
35.5	117.275
36.0	114.773
36.5	112.414
37.0	110.269
37.5	108.268
38.0	106.409
38.5	104.622
39.0	102.978
39.5	101.369
40.0	99.868
40.5	98.367
41.0	96.937
41.5	95.543
42.0	94.220
42.5	92.898
43.0	91.575
43.5	90.253
44.0	88.930
44.5	87.608
45.0	86.285
45.5	84.963
46.0	83.640
46.5	82.318
47.0	80.924
47.5	79.530
48.0	78.136
48.5	76.706
49.0	75.241
49.5	73.775
50.0	72.345
50.5	70.880
51.0	69.414
51.5	67.949
52.0	66.519
52.5	65.089
53.0	63.624
53.5	62.123
54.0	60.586
54.5	59.049

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55.0	57.512
55.5	55.975
56.0	54.473
56.5	53.008
57.0	51.542
57.5	50.077
58.0	48.647
58.5	47.253
59.0	45.859
59.5	44.501
60.0	43.178
60.5	41.856
61.0	40.569
61.5	39.318
62.0	38.067
62.5	36.816
63.0	35.622
63.5	34.435
64.0	33.270
64.5	32.123
65.0	31.001
65.5	29.907
66.0	28.827
66.5	27.776
67.0	26.751
67.5	25.743
68.0	24.767
68.5	23.812
69.0	22.858
69.5	21.936
70.0	21.039
70.5	20.156
71.0	19.294
71.5	18.454
72.0	17.643
72.5	16.842
73.0	16.063
73.5	15.305
74.0	14.562
74.5	13.844
75.0	13.143
75.5	12.464
76.0	11.799
76.5	11.152
77.0	10.534
77.5	9.919
78.0	9.326
78.5	8.750
79.0	8.185
79.5	7.642
80.0	7.109
80.5	6.591
81.0	6.080
81.5	5.583
82.0	5.097
82.5	4.625

IES INDOOR REPORT**PHOTOMETRIC FILENAME : V4DR-L14-835-(L11)-EM7W-DIM-UNV-LW-OF-CS_EMITTER MODE ONLY.IES****CANDELA TABULATION - (Cont.)**

83.0	4.157
83.5	3.703
84.0	3.260
84.5	2.827
85.0	2.413
85.5	2.012
86.0	1.630
86.5	1.269
87.0	0.951
87.5	0.686
88.0	0.479
88.5	0.304
89.0	0.189
89.5	0.129
90.0	0.089
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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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
131.5	0.000
132.0	0.000
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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : V4DR-L14-835-(L11)-EM7W-DIM-UNV-LW-OF-CS_EMER MODE ONLY.IES****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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Zone	Lumens	%Lamp	%Fixt
0-20	124.66	N.A.	25.80
0-30	239.12	N.A.	49.50
0-40	317.08	N.A.	65.60
0-60	434.93	N.A.	90.00
0-80	480.11	N.A.	99.40
0-90	483.13	N.A.	100.00
10-90	450.98	N.A.	93.30
20-40	192.42	N.A.	39.80
20-50	258.87	N.A.	53.60
40-70	148.85	N.A.	30.80
60-80	45.18	N.A.	9.40
70-80	14.18	N.A.	2.90
80-90	3.02	N.A.	0.60
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	483.13	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	32.15
10-20	92.52
20-30	114.45
30-40	77.96
40-50	66.45
50-60	51.40
60-70	31.00
70-80	14.18
80-90	3.02
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	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

X=2H	Y=2H	18.1	19.5	18.5	19.8	20.1	18.1	19.5	18.5	19.8	20.1
	3H	19.2	20.4	19.6	20.8	21.1	19.2	20.4	19.6	20.8	21.1
	4H	19.6	20.7	20.0	21.1	21.4	19.6	20.7	20.0	21.1	21.4
	6H	19.8	20.8	20.2	21.2	21.6	19.8	20.8	20.2	21.2	21.6
	8H	19.8	20.8	20.3	21.2	21.6	19.8	20.8	20.3	21.2	21.6
	12H	19.8	20.8	20.3	21.2	21.6	19.8	20.8	20.3	21.2	21.6

UGR Viewed Endwise

4H	2H	18.5	19.6	18.9	20.0	20.3	18.5	19.6	18.9	20.0	20.3
	3H	19.8	20.7	20.2	21.1	21.5	19.8	20.7	20.2	21.1	21.5
	4H	20.2	21.1	20.6	21.5	21.9	20.2	21.1	20.6	21.5	21.9
	6H	20.5	21.3	21.0	21.7	22.2	20.5	21.3	21.0	21.7	22.2
	8H	20.6	21.3	21.1	21.7	22.2	20.6	21.3	21.1	21.7	22.2
	12H	20.6	21.2	21.1	21.7	22.2	20.6	21.2	21.1	21.7	22.2

8H	4H	20.3	21.0	20.8	21.5	21.9	20.3	21.0	20.8	21.5	21.9
	6H	20.7	21.3	21.2	21.8	22.3	20.7	21.3	21.2	21.8	22.3
	8H	20.8	21.3	21.4	21.9	22.3	20.8	21.3	21.4	21.9	22.3
	12H	20.9	21.4	21.4	21.8	22.4	20.9	21.4	21.4	21.8	22.4

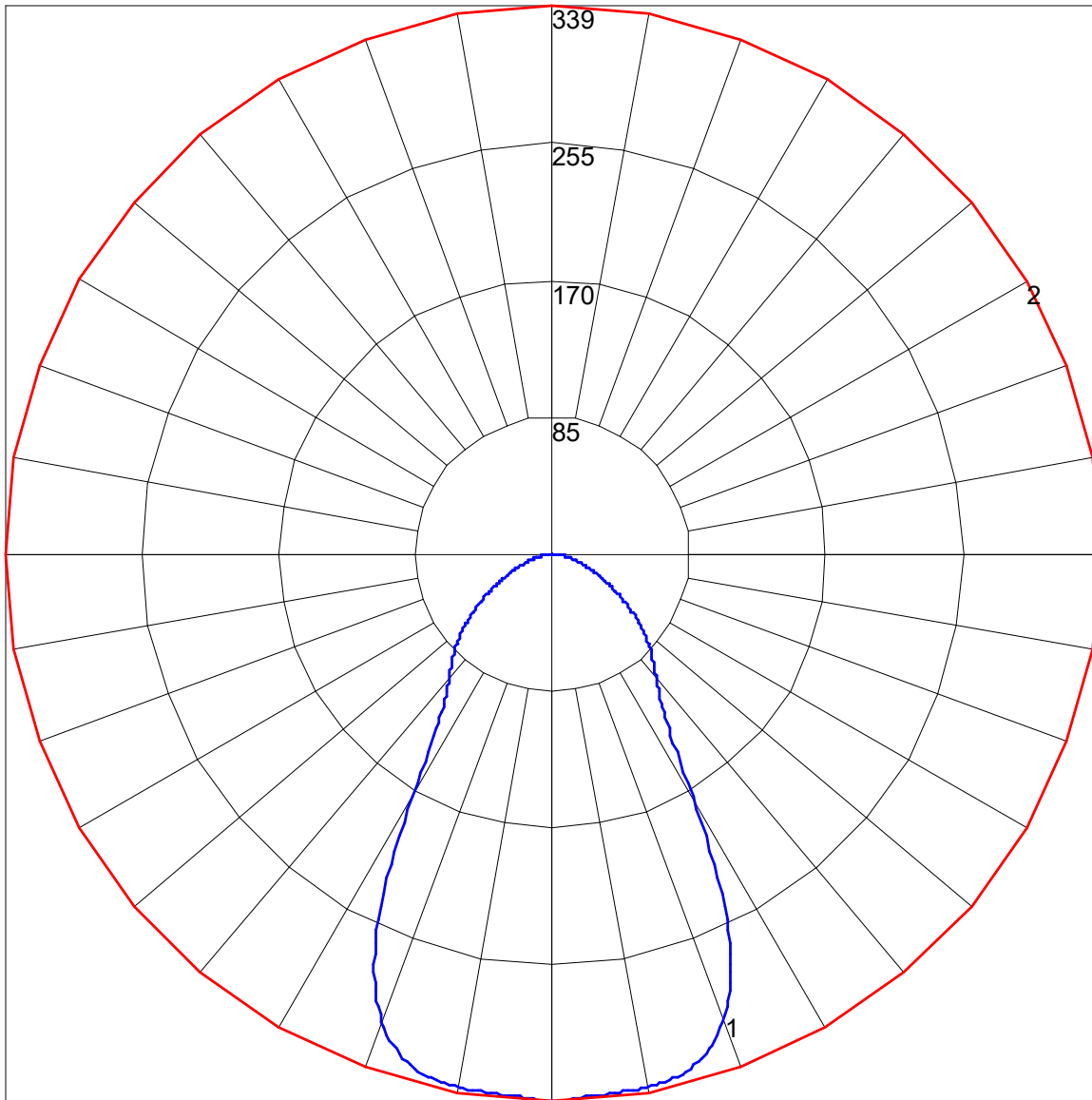
12H	4H	20.3	20.9	20.8	21.4	21.9	20.3	20.9	20.8	21.4	21.9
	6H	20.7	21.2	21.3	21.7	22.2	20.7	21.2	21.3	21.7	22.2
	8H	20.9	21.3	21.4	21.8	22.4	20.9	21.3	21.4	21.8	22.4

Maximum UGR = 22.4

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POLAR GRAPH



Maximum Candela = 339.387 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.)