



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 2DR-L7-835-EM5W-DIM-UNV-OW-OF-CS_(EMER MODE ONLY).IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]GEN FROM 13131414.01
[TESTLAB] UL Verification Services Inc.
[ISSUE DATE]03-19-2024
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO. 64836
[LUMCAT] 2DR-L7-835-EM5W-DIM-UNV-OW-OF-CS
[LUMINAIRE] Aluminum housing and reflector, no enclosure
[LAMP] One white LED
[BALLAST] Philips Advance XI036C100V054DSM1
[OTHER] 24.8 C, 120.1 V, 0.251684 A, 30.1187 W, 0.996411 PF, 59.9999 H
[OTHER] This test was performed using the calibrated photodetector met
[MORE] hod of absolute photometry.
[_SEARCH_SOURCE TYPE] LED
[_SEARCH_APPLICATION] Indoor, Downlight
[_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	415
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	83
Total Luminaire Watts	5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.04
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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 2DR-L7-835-EM5W-DIM-UNV-OW-OF-CS_(EMER MODE ONLY).IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	11261	11261	11261
55	3205	3205	3205
65	1454	1454	1454
75	450	450	450
85	120	120	120

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CANDELA TABULATION

	<u>0</u>
0.0	336.654
0.5	336.654
1.0	336.654
1.5	336.821
2.0	336.989
2.5	337.156
3.0	337.323
3.5	337.826
4.0	338.495
4.5	339.332
5.0	340.337
5.5	341.509
6.0	342.513
6.5	343.852
7.0	345.192
7.5	346.531
8.0	348.037
8.5	349.209
9.0	350.214
9.5	350.883
10.0	351.553
10.5	352.055
11.0	352.390
11.5	352.557
12.0	352.390
12.5	352.223
13.0	351.720
13.5	351.218
14.0	350.549
14.5	350.046
15.0	349.377
15.5	348.707
16.0	347.870
16.5	347.368
17.0	346.698
17.5	346.196
18.0	345.861
18.5	345.359
19.0	344.522
19.5	343.015
20.0	341.509
20.5	339.500
21.0	337.156
21.5	334.645
22.0	332.134
22.5	329.121
23.0	325.940
23.5	322.424
24.0	318.909
24.5	315.226
25.0	311.208
25.5	306.856
26.0	302.168
26.5	296.979

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 2DR-L7-835-EM5W-DIM-UNV-OW-OF-CS_(EMER MODE ONLY).IES****CANDELA TABULATION - (Cont.)**

27.0	291.454
27.5	285.093
28.0	279.066
28.5	272.705
29.0	266.511
29.5	260.317
30.0	253.788
30.5	247.092
31.0	240.228
31.5	233.197
32.0	226.501
32.5	219.470
33.0	212.271
33.5	205.073
34.0	197.539
34.5	190.006
35.0	182.305
35.5	174.270
36.0	165.950
36.5	157.228
37.0	147.903
37.5	138.010
38.0	127.781
38.5	117.352
39.0	106.973
39.5	96.911
40.0	87.336
40.5	78.329
41.0	69.926
41.5	62.074
42.0	54.742
42.5	48.012
43.0	41.935
43.5	36.578
44.0	32.058
44.5	28.292
45.0	25.161
45.5	22.566
46.0	20.407
46.5	18.565
47.0	17.008
47.5	15.669
48.0	14.497
48.5	13.459
49.0	12.539
49.5	11.718
50.0	10.948
50.5	10.262
51.0	9.626
51.5	9.040
52.0	8.504
52.5	7.985
53.0	7.500
53.5	7.031
54.0	6.596
54.5	6.177

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55.0	5.809
55.5	5.474
56.0	5.173
56.5	4.888
57.0	4.637
57.5	4.403
58.0	4.185
58.5	3.984
59.0	3.800
59.5	3.599
60.0	3.432
60.5	3.248
61.0	3.097
61.5	2.930
62.0	2.779
62.5	2.628
63.0	2.494
63.5	2.344
64.0	2.210
64.5	2.076
65.0	1.942
65.5	1.825
66.0	1.708
66.5	1.574
67.0	1.473
67.5	1.356
68.0	1.256
68.5	1.172
69.0	1.071
69.5	0.988
70.0	0.904
70.5	0.837
71.0	0.770
71.5	0.703
72.0	0.636
72.5	0.586
73.0	0.536
73.5	0.485
74.0	0.452
74.5	0.402
75.0	0.368
75.5	0.335
76.0	0.301
76.5	0.285
77.0	0.251
77.5	0.218
78.0	0.201
78.5	0.184
79.0	0.167
79.5	0.151
80.0	0.134
80.5	0.117
81.0	0.100
81.5	0.100
82.0	0.084
82.5	0.067

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 2DR-L7-835-EM5W-DIM-UNV-OW-OF-CS_(EMER MODE ONLY).IES****CANDELA TABULATION - (Cont.)**

83.0	0.067
83.5	0.050
84.0	0.050
84.5	0.050
85.0	0.033
85.5	0.033
86.0	0.033
86.5	0.017
87.0	0.017
87.5	0.017
88.0	0.017
88.5	0.017
89.0	0.017
89.5	0.017
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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 2DR-L7-835-EM5W-DIM-UNV-OW-OF-CS_(EMER MODE ONLY).IES****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
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 : 2DR-L7-835-EM5W-DIM-UNV-OW-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	131.63	N.A.	31.70
0-30	272.12	N.A.	65.60
0-40	381.69	N.A.	92.00
0-60	412.51	N.A.	99.40
0-80	414.94	N.A.	100.00
0-90	414.99	N.A.	100.00
10-90	382.08	N.A.	92.10
20-40	250.05	N.A.	60.30
20-50	275.30	N.A.	66.30
40-70	32.81	N.A.	7.90
60-80	2.43	N.A.	0.60
70-80	0.44	N.A.	0.10
80-90	0.05	N.A.	0.00
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	414.99	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	32.91
10-20	98.72
20-30	140.49
30-40	109.56
40-50	25.25
50-60	5.58
60-70	1.99
70-80	0.44
80-90	0.05
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	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86
3	102	95	90	86	100	94	89	85	91	87	84	88	85	82	86	83	81	79
4	96	88	83	78	94	87	82	78	85	80	77	83	79	76	81	78	75	73
5	91	82	76	72	89	81	76	71	79	74	71	78	73	70	76	72	69	68
6	86	77	71	66	85	76	70	66	74	69	65	73	68	65	72	68	64	63
7	81	72	65	61	80	71	65	61	70	64	61	69	64	60	67	63	60	58
8	77	67	61	57	76	67	61	57	66	60	56	64	60	56	63	59	56	54
9	73	63	57	53	72	63	57	53	62	56	52	61	56	52	60	55	52	51
10	70	59	53	49	68	59	53	49	58	53	49	57	52	49	57	52	49	47

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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	5.8	6.8	6.2	7.2	7.5	5.8	6.8	6.2	7.2	7.5
	3H	6.1	7.0	6.5	7.3	7.7	6.1	7.0	6.5	7.3	7.7
	4H	6.1	6.9	6.5	7.2	7.6	6.1	6.9	6.5	7.2	7.6
	6H	6.0	6.7	6.4	7.1	7.5	6.0	6.7	6.4	7.1	7.5
	8H	6.0	6.6	6.4	7.0	7.4	6.0	6.6	6.4	7.0	7.4
	12H	5.9	6.5	6.3	6.9	7.4	5.9	6.5	6.3	6.9	7.4

UGR Viewed Endwise

4H	2H	5.9	6.7	6.3	7.1	7.4	5.9	6.7	6.3	7.1	7.4
	3H	6.2	6.9	6.6	7.3	7.7	6.2	6.9	6.6	7.3	7.7
	4H	6.2	6.8	6.6	7.2	7.6	6.2	6.8	6.6	7.2	7.6
	6H	6.1	6.6	6.6	7.0	7.5	6.1	6.6	6.6	7.0	7.5
	8H	6.0	6.5	6.5	6.9	7.4	6.0	6.5	6.5	6.9	7.4
	12H	6.0	6.4	6.5	6.9	7.3	6.0	6.4	6.5	6.9	7.3

8H	4H	6.0	6.5	6.5	7.0	7.4	6.0	6.5	6.5	7.0	7.4
	6H	5.9	6.3	6.5	6.8	7.3	5.9	6.3	6.5	6.8	7.3
	8H	5.9	6.2	6.4	6.7	7.2	5.9	6.2	6.4	6.7	7.2
	12H	5.8	6.1	6.3	6.6	7.2	5.8	6.1	6.3	6.6	7.2

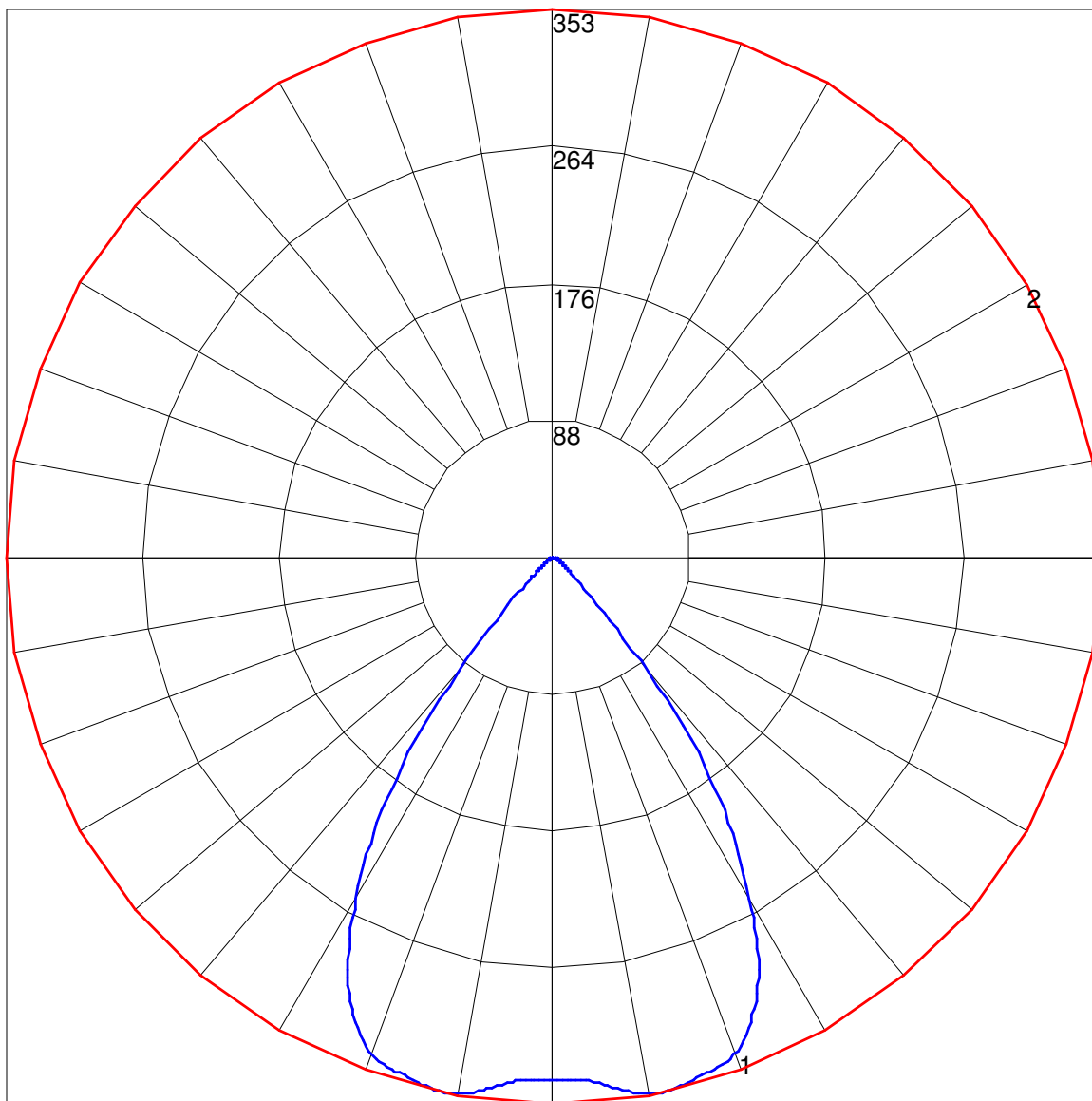
12H	4H	6.0	6.4	6.5	6.9	7.3	6.0	6.4	6.5	6.9	7.3
	6H	5.9	6.2	6.4	6.7	7.2	5.9	6.2	6.4	6.7	7.2
	8H	5.8	6.1	6.3	6.6	7.2	5.8	6.1	6.3	6.6	7.2

Maximum UGR = 7.7

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POLAR GRAPH



Maximum Candela = 352.557 Located At Horizontal Angle = 0, Vertical Angle = 11.5

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

2 - Horizontal Cone Through Vertical Angle (11.5) (Through Max. Cd.)