

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: 46637

Luminaire Tested: **AI-WN-1T8**

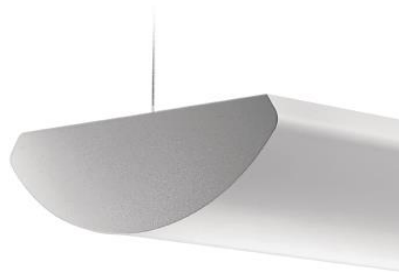
Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 46637  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: AI-WN-1T8  
Description: FABRICATED METAL HOUSING WITH WHITE INTERIOR FINISH,  
WHITE PAINTED CENTER REFLECTOR STRIP WITH WHITE PAINTED METAL  
SIDE PIECES, OPEN TOP. LAMP MOUNTED OBLIQUELY ACROSS WHITE  
CENTER STRIP.  
Light Source: ONE 32-WATT F32T8/TL835 FLUORESCENT.  
Ballast/Driver: MOTOROLA M1-RN-T8-1LL-120  
MOUNTING SUSPENDED  
THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMP.  
TOTAL INPUT WATTS= 30.8 AT 120.0 VOLTS  
LUMEN TO CANDELA RATIO USED= 9.17

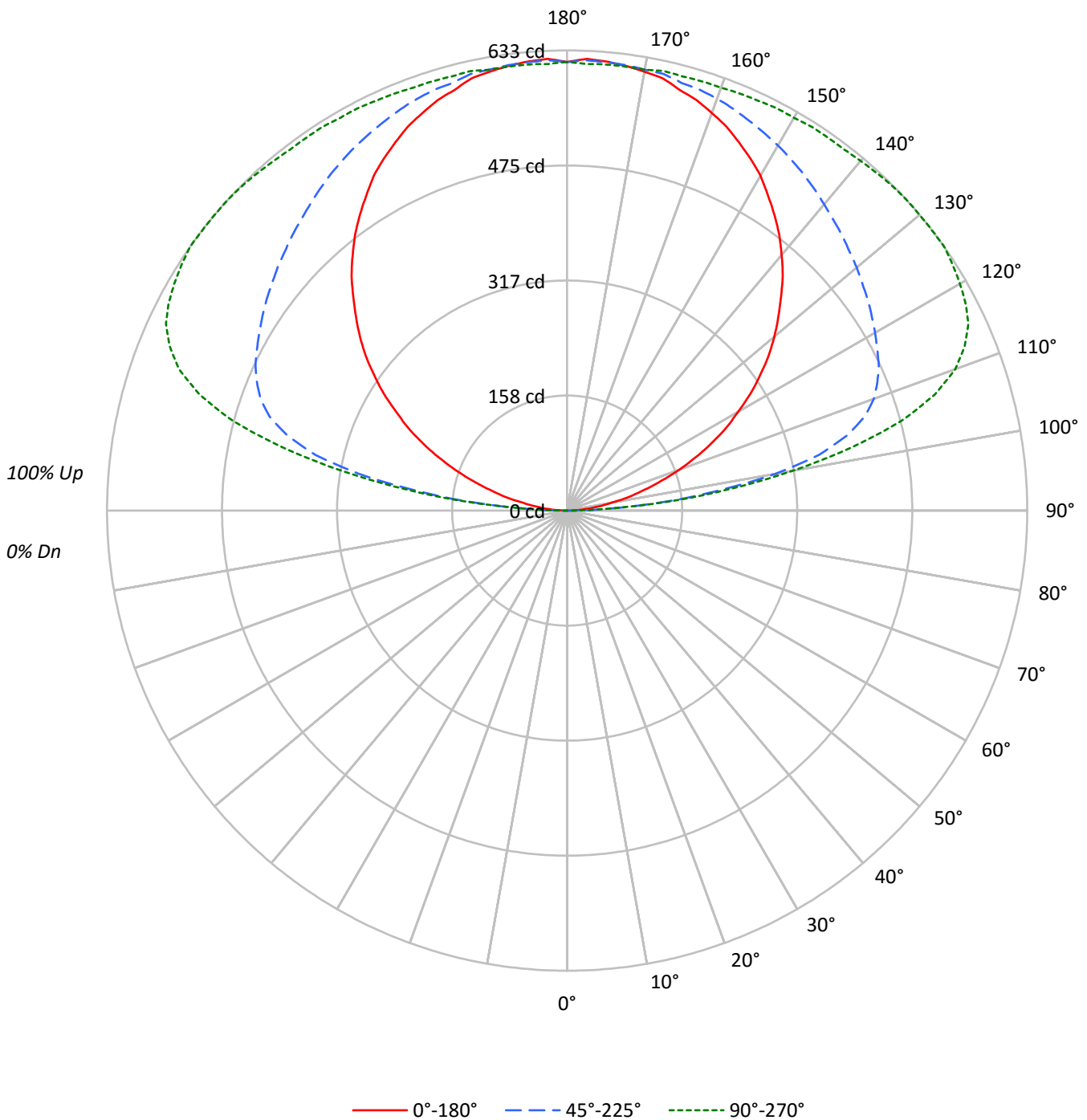
**Summary**

Lumens per Lamp: 3000 (1 lamp)  
Luminaire Lumens: 2655.3 lumens  
Efficiency: 88.5%  
Efficacy: 86.2 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.25')  
CIE Type: Indirect  
  
Input Watts (W): 30.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				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
RCR																		
0	84	84	84	84	72	72	72	72	49	49	49	28	28	28	9	9	9	0
1	77	73	70	67	65	63	60	58	43	41	40	25	24	23	8	8	8	0
2	70	64	59	55	59	55	51	47	37	35	33	22	20	19	7	7	6	0
3	63	56	50	45	54	48	43	39	33	30	28	19	18	16	6	6	5	0
4	58	49	43	38	49	42	37	33	29	26	23	17	15	14	5	5	5	0
5	53	44	37	32	45	37	32	28	26	22	20	15	13	12	5	4	4	0
6	49	39	32	28	41	33	28	24	23	20	17	13	11	10	4	4	3	0
7	45	35	28	24	38	30	25	21	21	17	15	12	10	9	4	3	3	0
8	41	31	25	21	35	27	22	18	19	15	13	11	9	8	4	3	3	0
9	38	28	22	18	32	24	19	16	17	14	11	10	8	7	3	3	2	0
10	35	26	20	16	30	22	17	14	15	12	10	9	7	6	3	2	2	0

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	0	0	0
5°	0	0	0
10°	0	0	0
15°	0	0	0
20°	0	0	0
25°	0	0	0
30°	0	0	0
35°	0	0	0
40°	0	0	0
45°	0	0	0
50°	0	0	0
55°	0	0	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	0.0	0.0	0.0
10°-20°	0.0	0.0	0.0
20°-30°	0.0	0.0	0.0
30°-40°	0.0	0.0	0.0
40°-50°	0.0	0.0	0.0
50°-60°	0.0	0.0	0.0
60°-70°	0.0	0.0	0.0
70°-80°	0.0	0.0	0.0
80°-90°	0.1	0.0	0.0
90°-100°	134.5	5.1	4.5
100°-110°	368.7	13.9	12.3
110°-120°	441.0	16.6	14.7
120°-130°	441.1	16.6	14.7
130°-140°	410.6	15.5	13.7
140°-150°	354.2	13.3	11.8
150°-160°	273.6	10.3	9.1
160°-170°	172.7	6.5	5.8
170°-180°	58.9	2.2	2.0
0°-30°	0.0	0.0	0.0
0°-40°	0.0	0.0	0.0
0°-60°	0.0	0.0	0.0
0°-90°	0.1	0.0	0.0
90°-120°	944.2	35.6	31.5
90°-150°	2150.1	81.0	71.7
90°-180°	2655.0	100.0	88.5
0°-180°	2655.3	100.0	88.5

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	0	0	0	0	0	
5°	0	0	0	0	0	0
15°	0	0	0	0	0	0
25°	0	0	0	0	0	0
35°	0	0	0	0	0	0
45°	0	0	0	0	0	0
55°	0	0	0	0	0	0
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	1	1	0	1	0	2
95°	28	127	132	151	135	29
105°	110	268	398	470	476	118
115°	219	324	473	575	609	216
125°	324	391	505	597	633	289
135°	416	461	535	604	632	321
145°	497	523	566	609	626	311
155°	559	572	592	613	622	258
165°	599	604	609	614	618	169
175°	620	621	619	615	616	59
180°	617	617	617	617	617	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	0	0	0	0	0
2.5°	0	0	0	0	0
5°	0	0	0	0	0
7.5°	0	0	0	0	0
10°	0	0	0	0	0
12.5°	0	0	0	0	0
15°	0	0	0	0	0
17.5°	0	0	0	0	0
20°	0	0	0	0	0
22.5°	0	0	0	0	0
25°	0	0	0	0	0
27.5°	0	0	0	0	0
30°	0	0	0	0	0
32.5°	0	0	0	0	0
35°	0	0	0	0	0
37.5°	0	0	0	0	0
40°	0	0	0	0	0
42.5°	0	0	0	0	0
45°	0	0	0	0	0
47.5°	0	0	0	0	0
50°	0	0	0	0	0
52.5°	0	0	0	0	0
55°	0	0	0	0	0
57.5°	0	0	0	0	0
60°	0	0	0	0	0
62.5°	0	0	0	0	0
65°	0	0	0	0	0
67.5°	0	0	0	0	0
70°	0	0	0	0	0
72.5°	0	0	0	0	0
75°	0	0	0	0	0
77.5°	0	0	0	0	0
80°	0	0	0	0	0
82.5°	0	0	0	0	0
85°	0	0	0	0	0
87.5°	0	0	0	0	0
90°	1	1	0	1	0
92.5°	12	57	51	66	50
95°	28	127	132	151	135
97.5°	43	185	209	237	224
100°	62	226	291	325	315
102.5°	87	250	355	407	401
105°	110	268	398	470	476
107.5°	136	281	429	515	530
110°	164	295	449	545	568



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	191	309	462	563	592
115°	219	324	473	575	609
117.5°	247	338	481	583	618
120°	271	355	489	589	624
122.5°	299	372	497	594	629
125°	324	391	505	597	633
127.5°	349	408	512	599	633
130°	372	426	520	601	633
132.5°	394	443	527	603	633
135°	416	461	535	604	632
137.5°	439	477	542	605	630
140°	459	493	550	606	628
142.5°	479	509	558	607	626
145°	497	523	566	609	626
147.5°	514	537	573	609	626
150°	532	549	580	611	624
152.5°	546	562	586	612	624
155°	559	572	592	613	622
157.5°	572	583	598	614	621
160°	582	592	603	615	619
162.5°	592	599	607	616	619
165°	599	604	609	614	618
167.5°	609	612	615	617	619
170°	613	615	616	616	616
172.5°	617	618	618	616	616
175°	620	621	619	615	616
177.5°	622	621	620	615	615
180°	617	617	617	617	617

(END OF REPORT)