

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: METALUX

Report Number: P30728

Luminaire Tested: **ART-2ARC-217L-UNV-EB81**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P30728  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: ART-2ARC-217L-UNV-EB81  
Description: METALUX RECESSED 2x2 LINEAR FLUORESCENT TROFFER & PARABOLIC WITH A RETRO FIT WHITE PAINTED REFLECTOR IN A GT HOUSING & A DOORFRAME WITH DUAL LENS, MATTE WHITE FINISH  
Light Source: -  
PHILIPS F17T8/TL841 17W - 1350 LUMENS EA  
Ballast/Driver: -  
ULT B232IUNVHP-B

**Summary**

Lumens per Lamp: 1350 (2 lamps)  
Luminaire Lumens: 1970.4 lumens  
Efficiency: 73.0%  
Efficacy: 62.0 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.35  
Luminous Opening: Rectangular (W 1.75' x L: 1.75' x H: 0')  
CIE Type: Direct

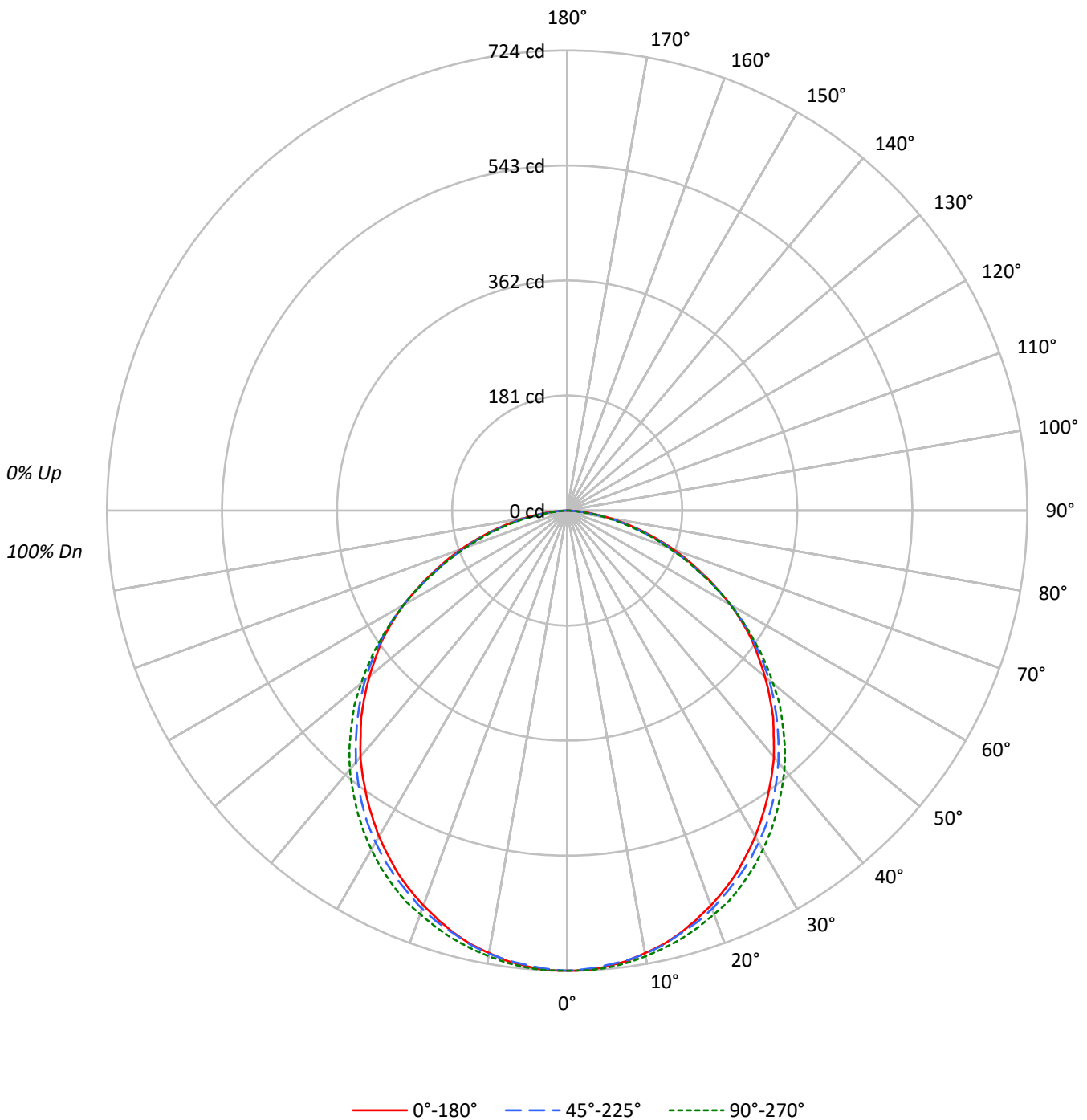
Input Watts (W): 31.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	87	87	87	87	85	85	85	85	81	81	81	78	78	78	74	74	74	73
1	80	76	73	70	78	75	72	69	71	69	67	69	67	65	66	65	63	62
2	73	67	62	58	71	65	61	57	63	59	56	60	57	54	58	55	53	52
3	66	59	53	48	64	57	52	48	55	51	47	53	49	46	51	48	45	44
4	61	52	46	41	59	51	45	40	49	44	40	47	43	39	46	42	39	37
5	56	46	40	35	54	46	40	35	44	39	35	43	38	34	41	37	34	32
6	52	42	35	31	50	41	35	31	40	34	30	39	34	30	37	33	30	28
7	48	38	32	27	46	37	31	27	36	31	27	35	30	27	34	30	26	25
8	44	35	28	24	43	34	28	24	33	28	24	32	27	24	31	27	24	22
9	42	32	26	22	41	31	26	22	31	25	22	30	25	22	29	25	21	20
10	39	29	24	20	38	29	23	20	28	23	20	28	23	20	27	23	19	18

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

	0°	45°	90°
0°	2545	2545	2545
5°	2540	2533	2547
10°	2523	2527	2541
15°	2503	2507	2536
20°	2472	2495	2528
25°	2443	2470	2521
30°	2403	2447	2500
35°	2360	2416	2471
40°	2322	2372	2441
45°	2277	2321	2386
50°	2220	2269	2313
55°	2175	2194	2212
60°	2088	2095	2088
65°	1954	1921	1913
70°	1819	1768	1737
75°	1616	1562	1521
80°	1356	1275	1194
85°	1008	807	605



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	68.4	3.5	2.5	0°	724	724	724	724	724	
10°-20°	195.0	9.9	7.2	5°	720	719	718	721	722	68
20°-30°	294.1	14.9	10.9	15°	688	688	689	695	697	194
30°-40°	351.8	17.9	13.0	25°	630	631	637	645	650	290
40°-50°	361.1	18.3	13.4	35°	550	554	563	571	576	344
50°-60°	319.7	16.2	11.8	45°	458	460	467	476	480	353
60°-70°	231.1	11.7	8.6	55°	355	356	358	361	361	316
70°-80°	122.6	6.2	4.5	65°	235	235	231	230	230	233
80°-90°	26.6	1.4	1.0	75°	119	119	115	112	112	127
90°-100°	0.0	0.0	0.0	85°	25	23	20	17	15	29
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	1
110°-120°	0.0	0.0	0.0	95°	0	0	0	0	0	0
120°-130°	0.0	0.0	0.0	105°	0	0	0	0	0	0
130°-140°	0.0	0.0	0.0	115°	0	0	0	0	0	0
140°-150°	0.0	0.0	0.0	125°	0	0	0	0	0	0
150°-160°	0.0	0.0	0.0	135°	0	0	0	0	0	0
160°-170°	0.0	0.0	0.0	145°	0	0	0	0	0	0
170°-180°	0.0	0.0	0.0	155°	0	0	0	0	0	0
0°-30°	557.5	28.3	20.6	165°	0	0	0	0	0	0
0°-40°	909.3	46.1	33.7	175°	0	0	0	0	0	0
0°-60°	1590.1	80.7	58.9	180°	0	0	0	0	0	0
0°-90°	1970.4	100.0	73.0							
90°-120°	0.0	0.0	0.0							
90°-150°	0.0	0.0	0.0							
90°-180°	0.0	0.0	0.0							
0°-180°	1970.4	100.0	73.0							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	724	724	724	724	724
2.5°	724	722	722	723	724
5°	720	719	718	721	722
7.5°	715	714	714	717	718
10°	707	707	708	710	712
12.5°	699	698	700	703	705
15°	688	688	689	695	697
17.5°	675	676	679	684	687
20°	661	663	667	673	676
22.5°	646	648	652	660	665
25°	630	631	637	645	650
27.5°	611	614	621	630	634
30°	592	594	603	611	616
32.5°	571	575	584	591	597
35°	550	554	563	571	576
37.5°	528	531	540	549	554
40°	506	509	517	525	532
42.5°	481	486	492	502	507
45°	458	460	467	476	480
47.5°	432	436	441	451	454
50°	406	410	415	422	423
52.5°	380	384	387	391	393
55°	355	356	358	361	361
57.5°	326	327	329	328	329
60°	297	299	298	297	297
62.5°	266	268	264	263	264
65°	235	235	231	230	230
67.5°	206	206	201	199	200
70°	177	177	172	169	169
72.5°	148	147	143	140	140
75°	119	119	115	112	112
77.5°	92	92	88	85	84
80°	67	66	63	60	59
82.5°	44	43	40	37	36
85°	25	23	20	17	15
87.5°	9	8	6	5	5
90°	0	0	0	0	0
92.5°	0	0	0	0	0
95°	0	0	0	0	0
97.5°	0	0	0	0	0
100°	0	0	0	0	0
102.5°	0	0	0	0	0
105°	0	0	0	0	0
107.5°	0	0	0	0	0
110°	0	0	0	0	0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0	0	0	0	0
115°	0	0	0	0	0
117.5°	0	0	0	0	0
120°	0	0	0	0	0
122.5°	0	0	0	0	0
125°	0	0	0	0	0
127.5°	0	0	0	0	0
130°	0	0	0	0	0
132.5°	0	0	0	0	0
135°	0	0	0	0	0
137.5°	0	0	0	0	0
140°	0	0	0	0	0
142.5°	0	0	0	0	0
145°	0	0	0	0	0
147.5°	0	0	0	0	0
150°	0	0	0	0	0
152.5°	0	0	0	0	0
155°	0	0	0	0	0
157.5°	0	0	0	0	0
160°	0	0	0	0	0
162.5°	0	0	0	0	0
165°	0	0	0	0	0
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)