

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: P30729

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P30729
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: ART-2ARC-217L-WO-UNV-EB81
Description: METALUX RECESSED 2x2 LINEAR FLUORESCENT TROFFER & PARABOLIC WITH A RETRO FIT WHITE OPTICS 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 ELECTRONIC BALLAST
ULT B232IUNVHP-B

Summary

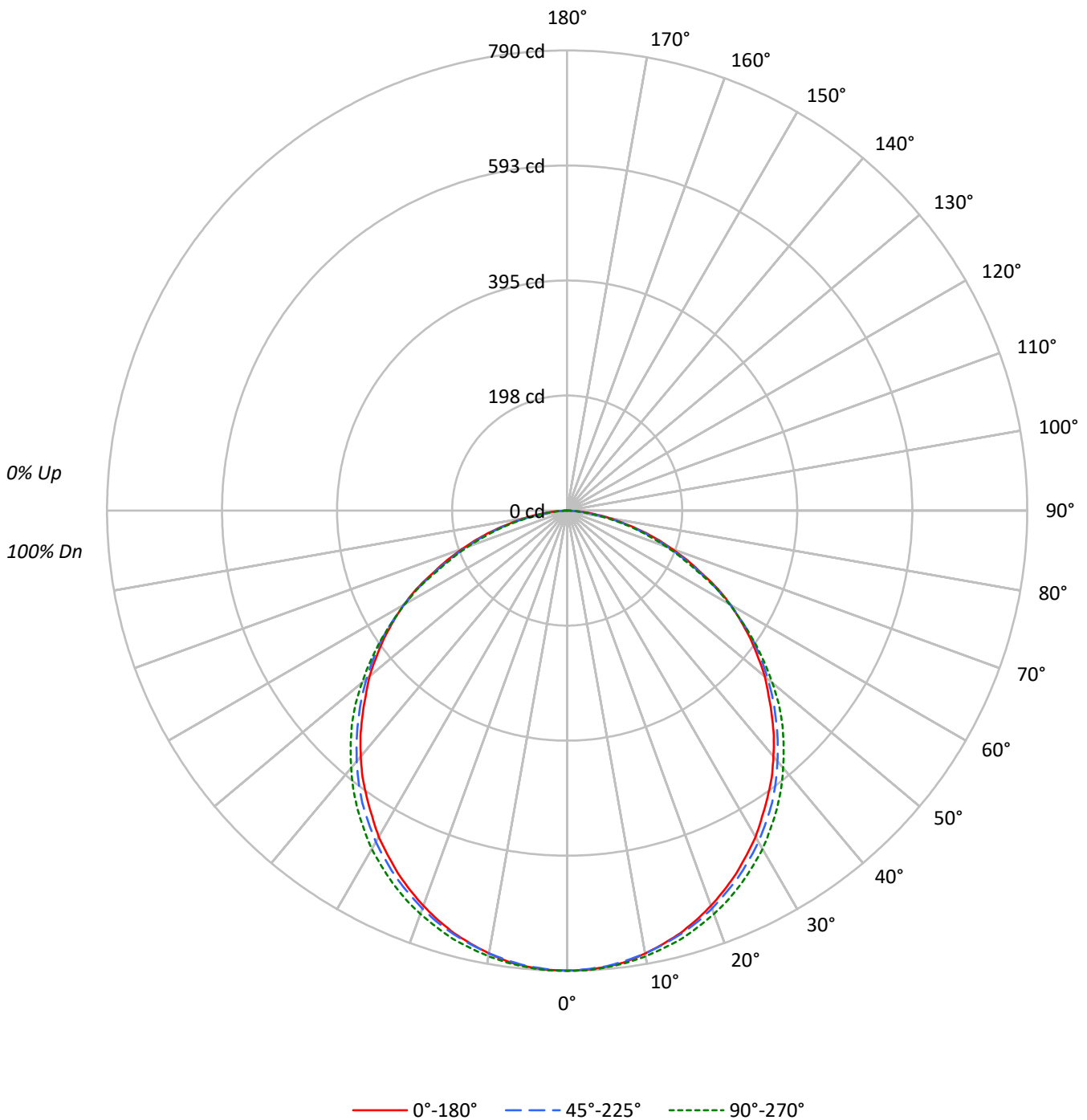
Lumens per Lamp: 1350 (2 lamps)
Luminaire Lumens: 2141.7 lumens
Efficiency: 79.3%
Efficacy: 66.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.75' x L: 1.75' x H: 0')
CIE Type: Direct

Input Watts (W): 32.1
Input Voltage (V): NR
Input Current (A_{in}): 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									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0													
RCR																																					
0	94	94	94	94	92	92	92	92	88	88	88	84	84	84	81	81	81	79																			
1	87	83	80	77	84	81	78	75	78	75	73	75	73	71	72	70	69	67																			
2	79	72	67	63	77	71	66	62	68	64	60	66	62	59	63	60	58	56																			
3	72	64	57	52	70	62	57	52	60	55	51	58	54	50	56	52	49	47																			
4	66	57	50	44	64	55	49	44	53	48	43	52	47	43	50	46	42	41																			
5	61	51	43	38	59	50	43	38	48	42	38	46	41	37	45	40	37	35																			
6	56	46	38	33	55	45	38	33	43	37	33	42	37	33	41	36	32	31																			
7	52	41	34	30	51	41	34	29	39	34	29	38	33	29	37	32	29	27																			
8	48	38	31	26	47	37	31	26	36	30	26	35	30	26	34	29	26	24																			
9	45	35	28	24	44	34	28	24	33	28	24	32	27	23	32	27	23	22																			
10	42	32	26	22	41	32	26	21	31	25	21	30	25	21	29	25	21	20																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2777	2777	2777
5°	2773	2770	2777
10°	2755	2755	2773
15°	2733	2740	2769
20°	2701	2719	2757
25°	2664	2695	2742
30°	2626	2666	2723
35°	2574	2630	2690
40°	2528	2579	2647
45°	2470	2520	2600
50°	2422	2461	2515
55°	2353	2390	2402
60°	2278	2271	2263
65°	2121	2087	2054
70°	1963	1901	1860
75°	1752	1684	1630
80°	1478	1356	1275
85°	1089	847	645



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	74.6	3.5	2.8	0°	790	790	790	790	790	
10°-20°	212.7	9.9	7.9	5°	786	785	785	786	787	75
20°-30°	320.5	15.0	11.9	15°	751	750	753	758	761	212
30°-40°	383.0	17.9	14.2	25°	687	688	695	702	707	316
40°-50°	392.6	18.3	14.5	35°	600	603	613	621	627	376
50°-60°	346.9	16.2	12.8	45°	497	502	507	518	523	384
60°-70°	250.8	11.7	9.3	55°	384	386	390	391	392	343
70°-80°	132.1	6.2	4.9	65°	255	256	251	248	247	254
80°-90°	28.5	1.3	1.1	75°	129	129	124	120	120	137
90°-100°	0.0	0.0	0.0	85°	27	25	21	17	16	32
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°	607.8	28.4	22.5	165°	0	0	0	0	0	0
0°-40°	990.8	46.3	36.7	175°	0	0	0	0	0	0
0°-60°	1730.3	80.8	64.1	180°	0	0	0	0	0	0
0°-90°	2141.7	100.0	79.3							
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°	2141.7	100.0	79.3							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	790	790	790	790	790
2.5°	789	789	788	789	790
5°	786	785	785	786	787
7.5°	781	779	779	781	783
10°	772	772	772	775	777
12.5°	762	762	763	767	769
15°	751	750	753	758	761
17.5°	737	737	741	746	749
20°	722	723	727	733	737
22.5°	705	706	711	719	723
25°	687	688	695	702	707
27.5°	667	669	676	685	689
30°	647	648	657	665	671
32.5°	623	626	635	643	649
35°	600	603	613	621	627
37.5°	577	579	588	596	603
40°	551	555	562	571	577
42.5°	525	528	535	546	550
45°	497	502	507	518	523
47.5°	469	474	479	489	493
50°	443	446	450	457	460
52.5°	413	416	420	424	426
55°	384	386	390	391	392
57.5°	354	356	357	356	356
60°	324	324	323	322	322
62.5°	292	292	288	287	288
65°	255	256	251	248	247
67.5°	223	224	218	215	213
70°	191	192	185	183	181
72.5°	160	160	154	151	149
75°	129	129	124	120	120
77.5°	99	99	95	91	90
80°	73	72	67	64	63
82.5°	48	47	43	39	38
85°	27	25	21	17	16
87.5°	10	8	6	6	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)