

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: P30945

Luminaire Tested: **2GC8IC-217A-UNV-EB81**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: P30945  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2GC8IC-217A-UNV-EB81  
Description: METALUX 2' X 2' SPECIFICATION GRADE RECESSED FLUORESCENT TROFFER,  
RATED FOR DIRECT CONTACT WITH INSULATION, WITH HIGH REFLECTANCE  
WHITE INTERIOR FINISH AND ACRYLIC PRISMATIC LENS  
Light Source: (2) T8 LINEAR FLUORESCENT LAMPS 3500K  
Ballast/Driver: -  
QUICKTRONICS QTP2x32T8/UNV ISN-SC

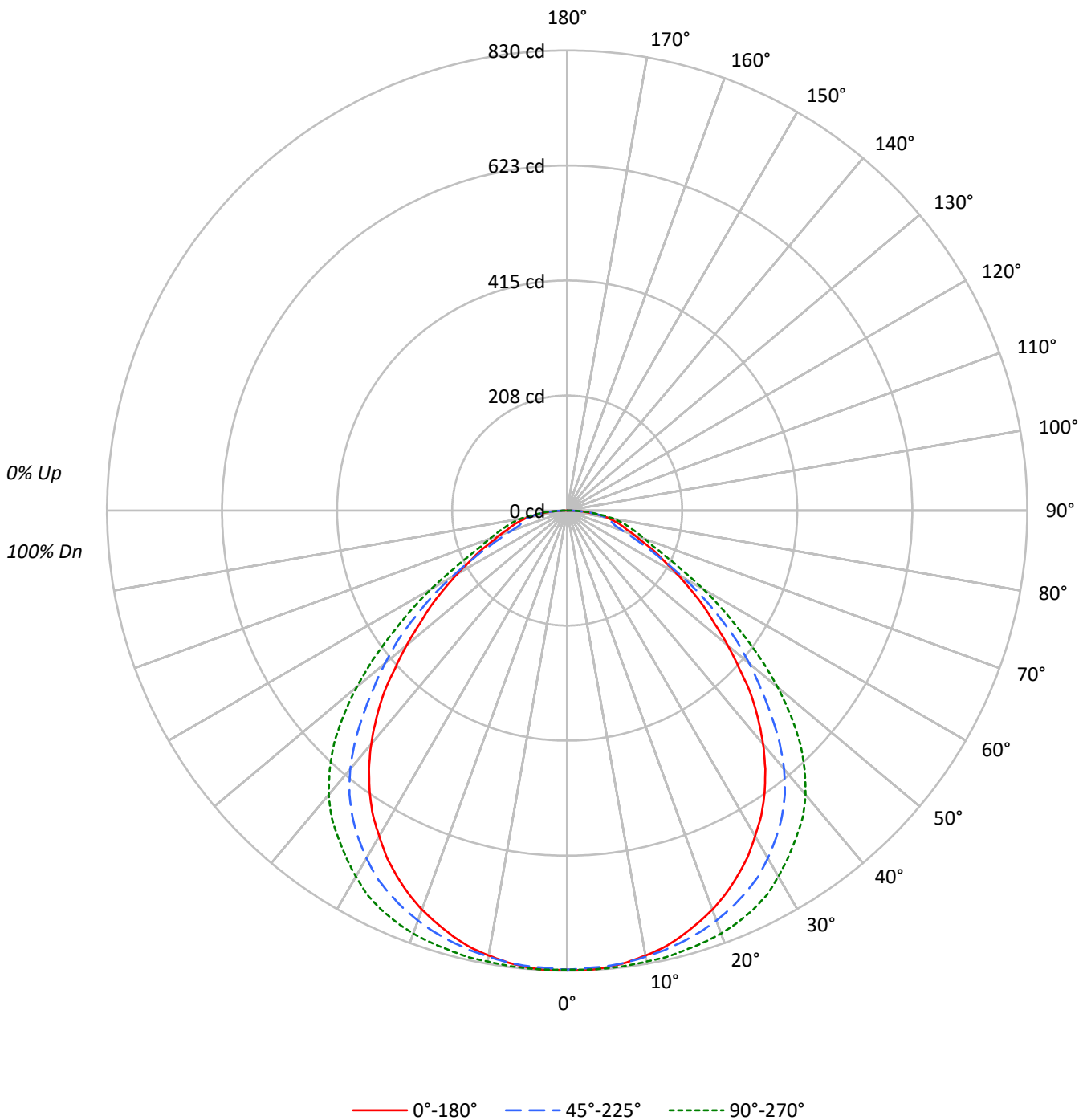
**Summary**

Lumens per Lamp: 1350 (2 lamps)  
Luminaire Lumens: 2106.1 lumens  
Efficiency: 78.0%  
Efficacy: 71.2 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.35 / 1.35  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 29.6  
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	93	93	93	93	91	91	91	91	87	87	87	83	83	83	80	80	80	78
1	85	82	79	76	83	80	77	75	77	75	72	74	72	70	71	70	68	67
2	78	72	67	63	76	71	66	62	68	64	61	66	62	60	63	61	58	57
3	72	64	58	53	70	63	57	53	61	56	52	58	54	51	57	53	50	49
4	66	57	51	46	64	56	50	45	54	49	45	53	48	44	51	47	44	42
5	61	51	45	40	59	51	44	40	49	43	39	47	43	39	46	42	38	37
6	56	47	40	35	55	46	39	35	44	39	35	43	38	34	42	37	34	32
7	52	42	36	31	51	42	35	31	41	35	31	39	34	31	38	34	30	29
8	49	39	32	28	48	38	32	28	37	32	28	36	31	27	35	31	27	26
9	46	36	29	25	45	35	29	25	34	29	25	33	28	25	33	28	25	23
10	43	33	27	23	42	32	27	23	32	26	23	31	26	23	30	26	23	21

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

	0°	45°	90°
0°	2228	2228	2228
5°	2234	2229	2239
10°	2227	2232	2257
15°	2215	2243	2287
20°	2194	2254	2325
25°	2159	2260	2358
30°	2107	2250	2368
35°	2040	2217	2365
40°	1932	2139	2350
45°	1785	1979	2264
50°	1582	1796	2076
55°	1407	1572	1802
60°	1232	1297	1528
65°	1108	1019	1254
70°	1015	842	1164
75°	1040	873	1206
80°	1131	1085	1302
85°	1173	1235	1328



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	78.6	3.7	2.9	0°	828	828	828	828	828	
10°-20°	227.8	10.8	8.4	5°	827	825	825	827	829	79
20°-30°	350.3	16.6	13.0	15°	795	796	805	816	821	224
30°-40°	419.6	19.9	15.5	25°	727	738	761	783	794	335
40°-50°	403.7	19.2	15.0	35°	621	639	675	704	720	387
50°-60°	305.1	14.5	11.3	45°	469	482	520	569	595	359
60°-70°	176.5	8.4	6.5	55°	300	311	335	377	384	268
70°-80°	101.7	4.8	3.8	65°	174	161	160	188	197	172
80°-90°	42.8	2.0	1.6	75°	100	89	84	100	116	105
90°-100°	0.0	0.0	0.0	85°	38	39	40	45	43	40
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	
110°-120°	0.0	0.0	0.0							
120°-130°	0.0	0.0	0.0							
130°-140°	0.0	0.0	0.0							
140°-150°	0.0	0.0	0.0							
150°-160°	0.0	0.0	0.0							
160°-170°	0.0	0.0	0.0							
170°-180°	0.0	0.0	0.0							
0°-30°	656.8	31.2	24.3							
0°-40°	1076.3	51.1	39.9							
0°-60°	1785.1	84.8	66.1							
0°-90°	2106.1	100.0	78.0							
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°	2106.1	100.0	78.0							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	828	828	828	828	828
2.5°	830	827	826	828	829
5°	827	825	825	827	829
7.5°	822	821	822	826	828
10°	815	815	817	823	826
12.5°	807	806	812	820	825
15°	795	796	805	816	821
17.5°	781	785	797	811	817
20°	766	771	787	803	812
22.5°	748	756	775	795	804
25°	727	738	761	783	794
27.5°	705	718	745	769	781
30°	678	696	724	750	762
32.5°	652	670	701	729	742
35°	621	639	675	704	720
37.5°	587	607	645	678	698
40°	550	571	609	647	669
42.5°	510	530	567	611	634
45°	469	482	520	569	595
47.5°	421	435	473	520	547
50°	378	393	429	473	496
52.5°	335	351	385	427	441
55°	300	311	335	377	384
57.5°	263	271	289	328	333
60°	229	229	241	276	284
62.5°	197	193	197	227	236
65°	174	161	160	188	197
67.5°	147	136	130	157	168
70°	129	117	107	133	148
72.5°	112	102	91	114	132
75°	100	89	84	100	116
77.5°	86	78	79	87	102
80°	73	66	70	77	84
82.5°	56	54	57	63	64
85°	38	39	40	45	43
87.5°	18	21	21	23	21
90°	0	0	0	0	0

(END OF REPORT)