

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: P30949

Luminaire Tested: **2GC8-317A-UNV-EB81**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: P30949  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2GC8-317A-UNV-EB81  
Description: METALUX 2' X 2' SPECIFICATION GRADE RECESSED FLUORESCENT TROFFER  
WITH HIGH REFLECTANCE WHITE INTERIOR FINISH AND ACRYLIC PRISMATIC LENS  
Light Source: (3) T8 LINEAR FLUORESCENT LAMPS 3500K  
Ballast/Driver: -  
QUICKTRONICS QTP3x32T8/UNV ISN-SC

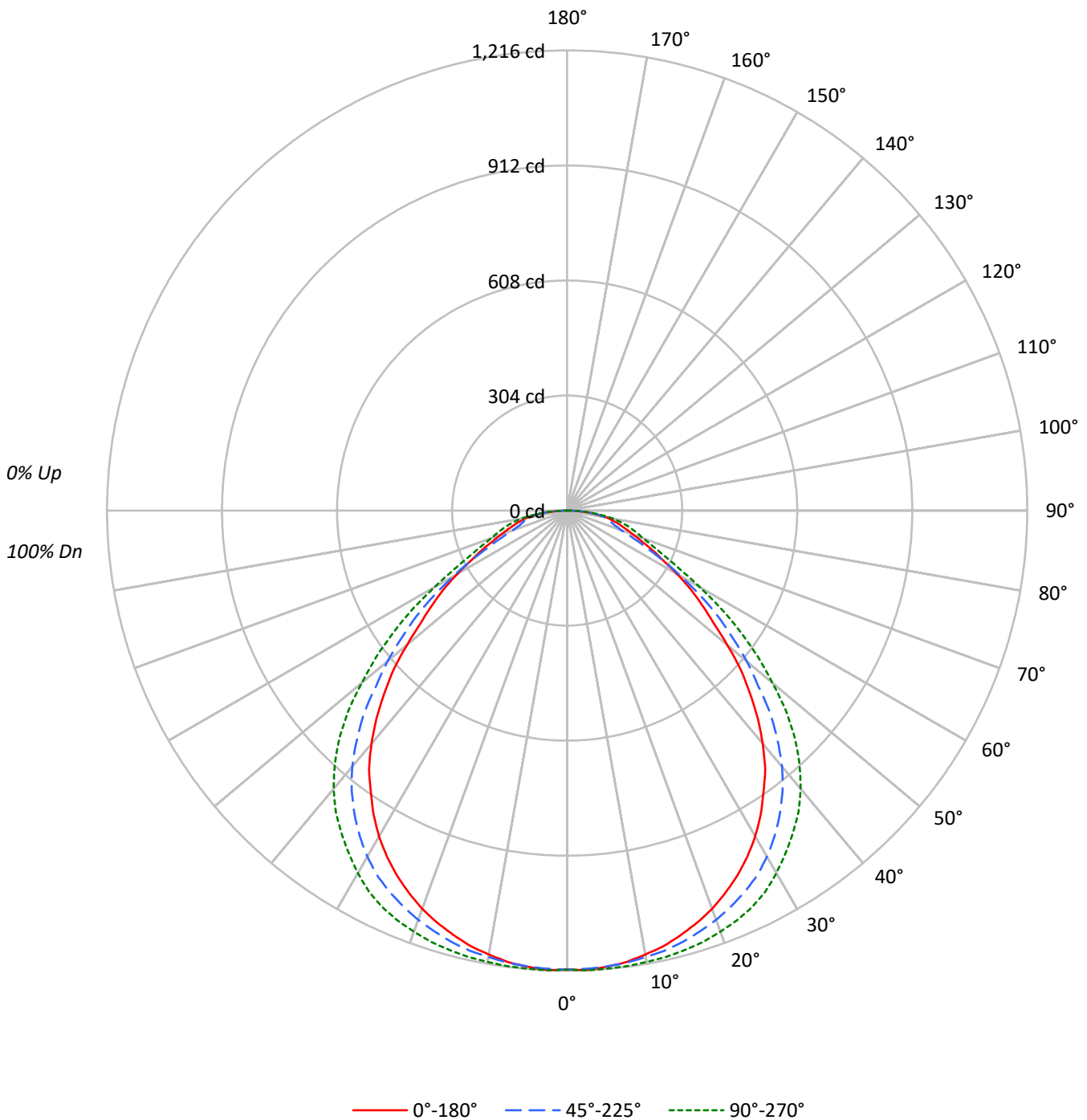
**Summary**

Lumens per Lamp: 1350 (3 lamps)  
Luminaire Lumens: 3059.4 lumens  
Efficiency: 75.5%  
Efficacy: 71.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.34 / 1.35  
Luminous Opening: Rectangular (W 1.75' x L: 1.75' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 42.9  
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									
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	90	90	90	90	88	88	88	88	84	84	84	80	80	80	77	77	77	76						76													
1	83	79	76	74	81	78	75	72	74	72	70	72	70	68	69	67	66	64						64													
2	76	70	65	61	74	69	64	60	66	62	59	64	60	58	61	59	56	55						55													
3	70	62	56	52	68	61	56	51	59	54	50	57	53	49	55	51	49	47						47													
4	64	55	49	44	62	54	49	44	53	48	43	51	46	43	49	45	42	41						41													
5	59	50	43	39	58	49	43	38	47	42	38	46	41	38	45	41	37	36						36													
6	55	45	39	34	53	44	38	34	43	38	34	42	37	33	41	36	33	31						31													
7	51	41	35	30	50	40	34	30	39	34	30	38	33	30	37	33	29	28						28													
8	47	38	31	27	46	37	31	27	36	31	27	35	30	27	34	30	27	25						25													
9	44	35	29	24	43	34	28	24	33	28	24	32	28	24	32	27	24	23						23													
10	42	32	26	22	41	32	26	22	31	26	22	30	25	22	29	25	22	21						21													

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

	0°	45°	90°
0°	4263	4263	4263
5°	4269	4266	4287
10°	4251	4276	4322
15°	4225	4294	4374
20°	4189	4305	4429
25°	4126	4309	4483
30°	4034	4286	4489
35°	3883	4205	4462
40°	3689	4056	4405
45°	3395	3778	4230
50°	3024	3390	3871
55°	2666	2978	3425
60°	2355	2439	2840
65°	2079	1905	2362
70°	1911	1583	2189
75°	1942	1643	2322
80°	2166	2065	2530
85°	2258	2420	2541



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	115.2	3.8	2.8	0°	1213	1213	1213	1213	1213	
10°-20°	333.4	10.9	8.2	5°	1210	1209	1209	1213	1215	115
20°-30°	511.4	16.7	12.6	15°	1161	1166	1180	1194	1202	328
30°-40°	609.1	19.9	15.0	25°	1064	1079	1111	1143	1156	490
40°-50°	584.4	19.1	14.4	35°	905	933	980	1018	1040	566
50°-60°	440.4	14.4	10.9	45°	683	703	760	816	851	526
60°-70°	254.7	8.3	6.3	55°	435	453	486	540	559	391
70°-80°	147.6	4.8	3.6	65°	250	233	229	272	284	250
80°-90°	63.0	2.1	1.6	75°	143	129	121	145	171	152
90°-100°	0.0	0.0	0.0	85°	56	58	60	67	63	60
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°	960.1	31.4	23.7							
0°-40°	1569.2	51.3	38.7							
0°-60°	2594.0	84.8	64.1							
0°-90°	3059.4	100.0	75.5							
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°	3059.4	100.0	75.5							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1213	1213	1213	1213	1213
2.5°	1215	1212	1212	1214	1216
5°	1210	1209	1209	1213	1215
7.5°	1203	1202	1205	1211	1214
10°	1191	1193	1198	1207	1211
12.5°	1179	1181	1191	1202	1208
15°	1161	1166	1180	1194	1202
17.5°	1142	1149	1166	1185	1195
20°	1120	1128	1151	1174	1184
22.5°	1093	1105	1132	1161	1172
25°	1064	1079	1111	1143	1156
27.5°	1031	1051	1087	1120	1135
30°	994	1015	1056	1091	1106
32.5°	952	975	1020	1057	1074
35°	905	933	980	1018	1040
37.5°	860	884	935	977	1004
40°	804	829	884	934	960
42.5°	746	769	823	880	909
45°	683	703	760	816	851
47.5°	622	636	684	749	785
50°	553	570	620	676	708
52.5°	487	514	550	611	636
55°	435	453	486	540	559
57.5°	387	392	416	469	483
60°	335	332	347	396	404
62.5°	287	281	286	324	336
65°	250	233	229	272	284
67.5°	214	195	188	228	244
70°	186	169	154	194	213
72.5°	163	148	133	166	191
75°	143	129	121	145	171
77.5°	125	112	114	127	148
80°	107	96	102	112	125
82.5°	81	78	83	92	93
85°	56	58	60	67	63
87.5°	29	33	31	35	31
90°	0	0	0	0	0

(END OF REPORT)