

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: P30878-R2

Luminaire Tested: **2GC8-332A-UNV-EB81**

Issue Date: 3/3/2020



**Test Information**

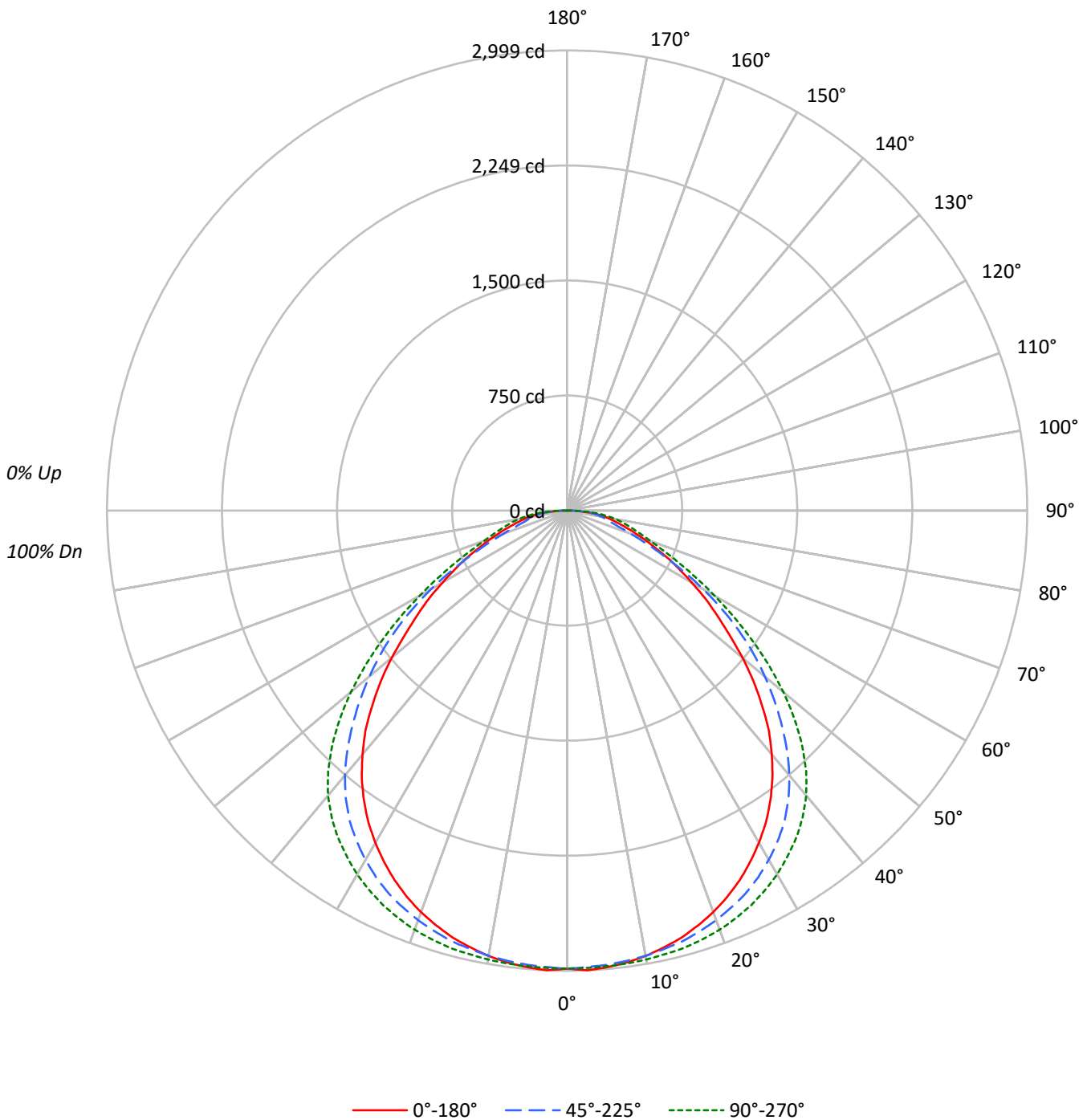
Test Method: LM-41-14  
Report Number: P30878-R2  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2GC8-332A-UNV-EB81  
Description: METALUX 2' X 4' SPECIFICATION GRADE RECESSED FLUORESCENT TROFFER  
WITH HIGH REFLECTANCE WHITE INTERIOR FINISH AND ACRYLIC PRISMATIC LENS  
Light Source: (3) T8 LINEAR FLUORESCENT LAMPS  
Ballast/Driver: -  
QTP3x32T8/UNV ISN-SC

**Summary**

Lumens per Lamp: 3100 (3 lamps)  
Luminaire Lumens: 7908.8 lumens  
Efficiency: 85.0%  
Efficacy: 95.1 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.35 / 1.38  
Luminous Opening: Rectangular (W 1.75' x L: 3.83' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 83.2  
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	50	30	10	0	
RCR																						
0	101	101	101	101	99	99	99	99	94	94	94	90	90	90	87	87	87	85				85
1	93	89	86	83	91	87	84	81	84	81	79	80	78	76	77	76	74	72				72
2	85	78	73	68	83	77	72	67	74	70	66	71	68	64	69	66	63	61				61
3	78	69	63	57	76	68	62	57	66	60	56	63	59	55	61	57	54	52				52
4	72	62	55	49	70	61	54	49	59	53	48	57	52	48	55	50	47	45				45
5	66	55	48	43	64	55	48	42	53	47	42	51	46	41	50	45	41	39				39
6	61	50	43	37	59	49	42	37	48	42	37	46	41	37	45	40	36	35				35
7	57	45	38	33	55	45	38	33	44	37	33	42	37	33	41	36	32	31				31
8	53	42	34	30	51	41	34	30	40	34	29	39	33	29	38	33	29	27				27
9	49	38	31	27	48	38	31	27	37	31	27	36	30	26	35	30	26	25				25
10	46	35	29	24	45	35	28	24	34	28	24	33	28	24	32	27	24	22				22

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

	0°	45°	90°
0°	4790	4790	4790
5°	4811	4785	4801
10°	4802	4800	4841
15°	4786	4827	4900
20°	4755	4849	4964
25°	4708	4874	5023
30°	4632	4869	5071
35°	4523	4838	5099
40°	4344	4719	5077
45°	4078	4491	4915
50°	3722	4201	4591
55°	3340	3827	4115
60°	3001	3283	3559
65°	2699	2627	3037
70°	2440	2069	2702
75°	2294	1835	2684
80°	2430	2098	2948
85°	2596	2559	3387



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	283.3	3.6	3.0	0°	2985	2985	2985	2985	2985	
10°-20°	821.5	10.4	8.8	5°	2987	2975	2971	2974	2981	284
20°-30°	1266.4	16.0	13.6	15°	2881	2882	2906	2934	2950	812
30°-40°	1535.5	19.4	16.5	25°	2659	2686	2753	2811	2837	1224
40°-50°	1521.3	19.2	16.4	35°	2309	2361	2470	2558	2603	1440
50°-60°	1198.9	15.2	12.9	45°	1797	1854	1979	2100	2166	1383
60°-70°	724.8	9.2	7.8	55°	1194	1246	1368	1428	1471	1074
70°-80°	390.5	4.9	4.2	65°	711	666	692	764	800	709
80°-90°	162.8	2.1	1.8	75°	370	340	296	411	433	400
90°-100°	3.7	0.0	0.0	85°	141	132	139	180	184	140
100°-110°	0.0	0.0	0.0	90°	11	20	26	38	37	13
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°	2371.2	30.0	25.5	165°	0	0	0	0	0	0
0°-40°	3906.8	49.4	42.0	175°	0	0	0	0	0	0
0°-60°	6627.0	83.8	71.3	180°	0	0	0	0	0	0
0°-90°	7905.1	100.0	85.0							
90°-120°	3.7	0.0	0.0							
90°-150°	3.7	0.0	0.0							
90°-180°	4.0	0.1	0.0							
0°-180°	7908.8	100.0	85.0							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2985	2985	2985	2985	2985
2.5°	2999	2984	2978	2978	2984
5°	2987	2975	2971	2974	2981
7.5°	2971	2960	2961	2969	2977
10°	2947	2940	2946	2959	2971
12.5°	2916	2912	2926	2947	2960
15°	2881	2882	2906	2934	2950
17.5°	2835	2842	2875	2912	2930
20°	2785	2797	2840	2885	2907
22.5°	2726	2745	2799	2851	2875
25°	2659	2686	2753	2811	2837
27.5°	2582	2617	2695	2758	2791
30°	2500	2542	2628	2700	2737
32.5°	2410	2457	2554	2633	2673
35°	2309	2361	2470	2558	2603
37.5°	2198	2255	2369	2468	2521
40°	2074	2134	2253	2362	2424
42.5°	1946	1999	2121	2241	2306
45°	1797	1854	1979	2100	2166
47.5°	1648	1706	1832	1946	2009
50°	1491	1556	1683	1784	1839
52.5°	1334	1403	1530	1610	1657
55°	1194	1246	1368	1428	1471
57.5°	1067	1089	1197	1240	1285
60°	935	938	1023	1064	1109
62.5°	821	798	851	908	946
65°	711	666	692	764	800
67.5°	608	553	553	643	675
70°	520	467	441	551	576
72.5°	441	397	355	477	498
75°	370	340	296	411	433
77.5°	313	288	258	354	377
80°	263	237	227	295	319
82.5°	207	185	189	242	258
85°	141	132	139	180	184
87.5°	74	78	78	106	104
90°	11	20	26	38	37
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)