

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: 160P103

Luminaire Tested: **GC-240A-PAF**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 160P103
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: GC-240A-PAF
Description: 1 X 4 Recessed Convertible Body Troffer with
a .095 pattern 12 acrylic lens.
Light Source: Two-F40CW - 3050 Lumens ea. - 40 Watts ea.
Ballast/Driver: Advance R-2S40-1-TP

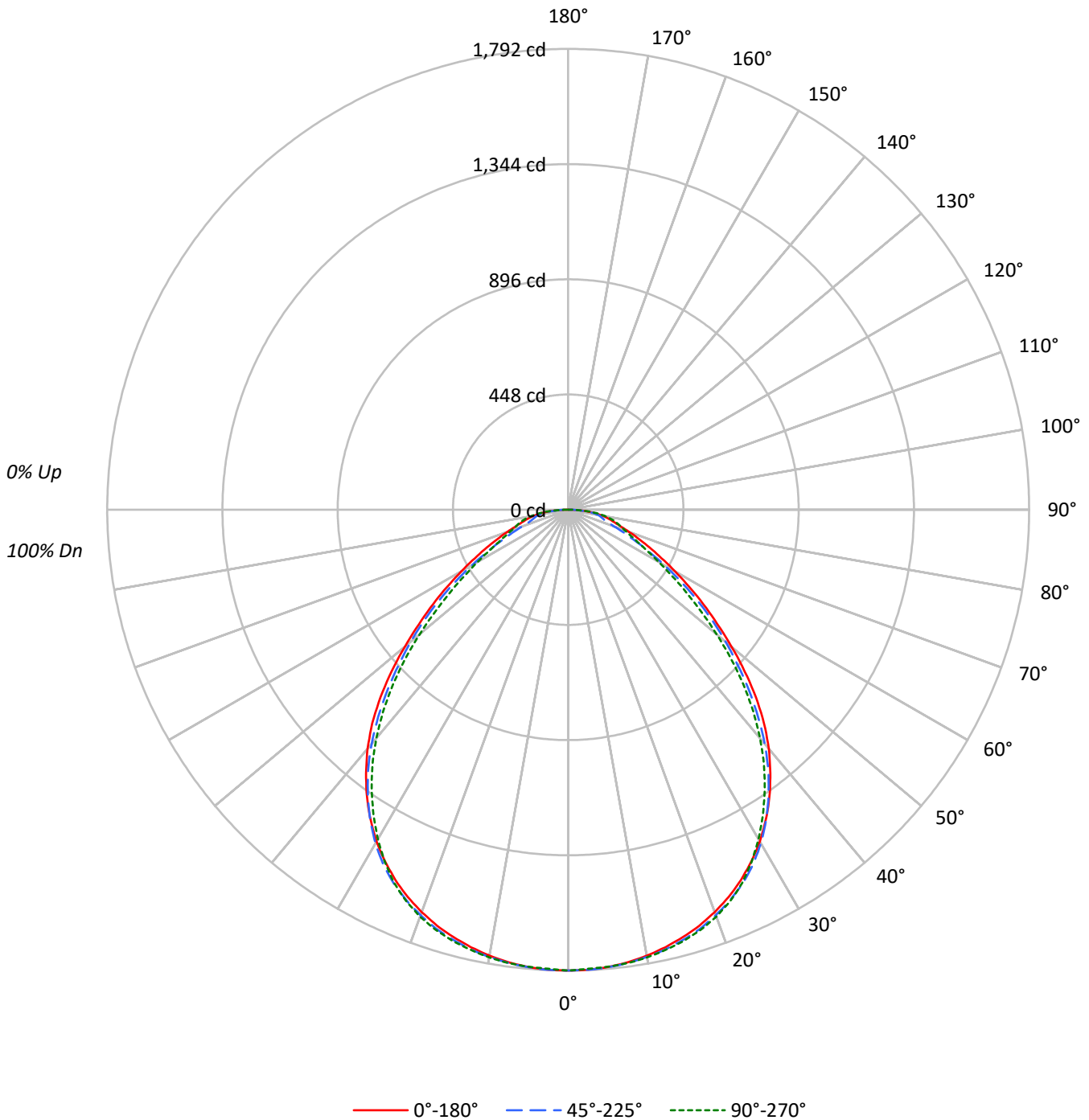
Summary

Lumens per Lamp: 3050 (2 lamps)
Luminaire Lumens: 4114.4 lumens
Efficiency: 67.4%
Efficacy: 49.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.22 / 1.28
Luminous Opening: Rectangular (W 0.78' x L: 3.8' x H: 0')
CIE Type: Direct

Input Watts (W): 82.7
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	80	80	80	80	78	78	78	78	75	75	75	72	72	72	69	69	69	67				67
1	74	71	69	66	72	70	67	65	67	65	63	64	63	61	62	61	59	58				58
2	68	63	59	55	66	62	58	55	59	56	53	57	55	52	55	53	51	50				50
3	63	56	51	47	61	55	50	47	53	49	46	51	48	45	50	47	44	43				43
4	58	50	45	41	56	49	44	40	48	43	40	46	42	39	45	42	39	37				37
5	53	45	40	36	52	45	39	35	43	39	35	42	38	35	41	37	34	33				33
6	50	41	36	31	48	41	35	31	39	35	31	38	34	31	37	34	31	29				29
7	46	38	32	28	45	37	32	28	36	31	28	35	31	28	34	30	27	26				26
8	43	34	29	25	42	34	29	25	33	28	25	32	28	25	32	28	25	24				24
9	40	32	26	23	39	31	26	23	31	26	23	30	26	23	29	25	23	21				21
10	38	29	24	21	37	29	24	21	28	24	21	28	24	21	27	23	21	19				19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6493	6493	6493
5°	6493	6496	6489
10°	6479	6498	6505
15°	6456	6494	6512
20°	6420	6470	6494
25°	6353	6413	6401
30°	6234	6268	6188
35°	6034	6007	5892
40°	5738	5624	5487
45°	5288	5094	4940
50°	4673	4504	4245
55°	4049	3854	3531
60°	3471	3131	2942
65°	2992	2478	2555
70°	2659	2002	2479
75°	2562	1988	2716
80°	2859	2462	3088
85°	3035	2786	3409



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	169.8	4.1	2.8	0°	1792	1792	1792	1792	1792	
10°-20°	488.2	11.9	8.0	5°	1785	1782	1786	1788	1784	170
20°-30°	735.1	17.9	12.1	15°	1721	1722	1731	1738	1736	486
30°-40°	842.8	20.5	13.8	25°	1589	1593	1604	1606	1601	731
40°-50°	764.6	18.6	12.5	35°	1364	1365	1358	1339	1332	850
50°-60°	540.7	13.1	8.9	45°	1032	1020	994	968	964	792
60°-70°	314.2	7.6	5.2	55°	641	627	610	569	559	576
70°-80°	183.5	4.5	3.0	65°	349	322	289	305	298	351
80°-90°	75.4	1.8	1.2	75°	183	173	142	185	194	198
90°-100°	0.0	0.0	0.0	85°	73	68	67	78	82	73
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	5
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°	1393.1	33.9	22.8	165°	0	0	0	0	0	0
0°-40°	2235.9	54.3	36.7	175°	0	0	0	0	0	0
0°-60°	3541.2	86.1	58.1	180°	0	0	0	0	0	0
0°-90°	4114.4	100.0	67.4							
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°	4114.4	100.0	67.4							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1792	1792	1792	1792	1792
2.5°	1791	1788	1791	1791	1787
5°	1785	1782	1786	1788	1784
7.5°	1775	1774	1778	1781	1778
10°	1761	1761	1766	1771	1768
12.5°	1743	1743	1751	1756	1753
15°	1721	1722	1731	1738	1736
17.5°	1696	1697	1708	1715	1713
20°	1665	1667	1678	1686	1684
22.5°	1630	1633	1644	1651	1647
25°	1589	1593	1604	1606	1601
27.5°	1542	1546	1556	1552	1544
30°	1490	1494	1498	1489	1479
32.5°	1430	1434	1432	1417	1408
35°	1364	1365	1358	1339	1332
37.5°	1291	1289	1278	1256	1250
40°	1213	1205	1189	1166	1160
42.5°	1127	1116	1093	1069	1065
45°	1032	1020	994	968	964
47.5°	931	919	894	864	859
50°	829	818	799	760	753
52.5°	731	722	704	659	651
55°	641	627	610	569	559
57.5°	557	536	518	487	478
60°	479	453	432	417	406
62.5°	409	382	355	355	346
65°	349	322	289	305	298
67.5°	297	274	234	267	262
70°	251	233	189	237	234
72.5°	212	201	159	211	212
75°	183	173	142	185	194
77.5°	160	146	131	159	174
80°	137	120	118	132	148
82.5°	108	94	96	108	117
85°	73	68	67	78	82
87.5°	38	37	34	41	41
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)