

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: 161P103

Luminaire Tested: **G-240A**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 161P103
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: G-240A
Description: 1 X 4 Recessed Convertible Body Troffer with a
.095 pattern 12 acrylic lens.
Light Source: Two - F40CW/RS/WM - 2650 Lumens ea. - 40 Watts ea.
Ballast/Driver: Advance R-2S40-1-TP Electronic - L.O.B.F. = 93.0

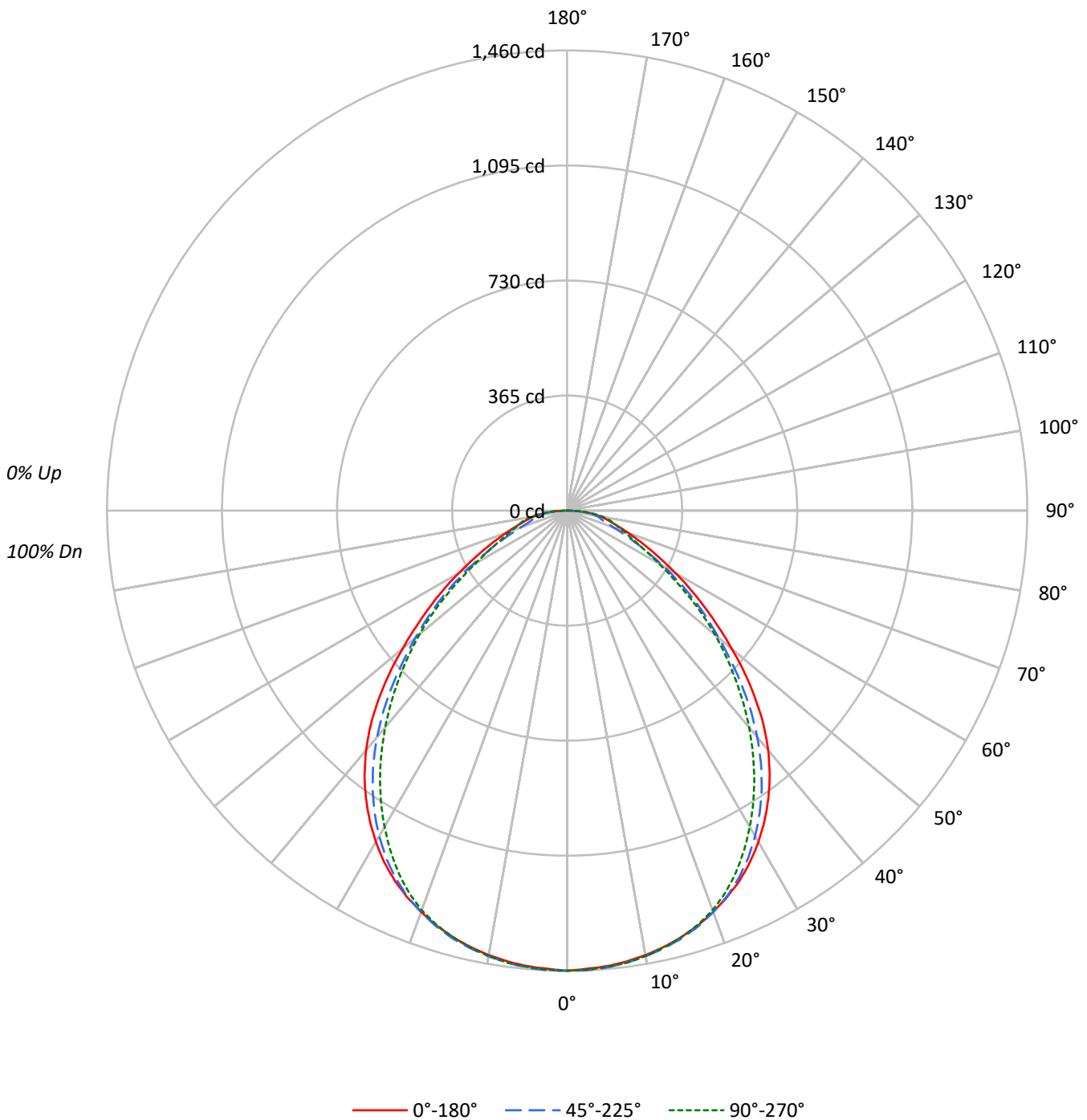
Summary

Lumens per Lamp: 2650 (2 lamps)
Luminaire Lumens: 3305.9 lumens
Efficiency: 62.4%
Efficacy: 46.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.18 / 1.26
Luminous Opening: Rectangular (W 0.79' x L: 3.89' x H: 0')
CIE Type: Direct

Input Watts (W): 71
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

TEST NUMBER: 161P103
CATALOG NUMBER: G-240A

Luminous Intensity Polar Plot





TEST NUMBER: 161P103
 CATALOG NUMBER: G-240A

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	74	74	74	74	73	73	73	73	69	69	69	66	66	66	64	64	64	62
1	69	66	63	61	67	64	62	60	62	60	58	59	58	57	57	56	55	54
2	63	58	54	51	61	57	54	51	55	52	49	53	50	48	51	49	47	46
3	58	52	47	44	56	51	47	43	49	45	42	47	44	42	46	43	41	40
4	53	47	41	38	52	46	41	37	44	40	37	43	39	36	41	38	36	35
5	49	42	37	33	48	41	36	33	40	36	32	39	35	32	38	34	32	30
6	46	38	33	29	45	38	33	29	36	32	29	35	31	29	34	31	28	27
7	43	35	30	26	42	34	29	26	33	29	26	32	29	26	32	28	25	24
8	40	32	27	23	39	31	27	23	31	26	23	30	26	23	29	26	23	22
9	37	29	25	21	36	29	24	21	28	24	21	28	24	21	27	23	21	20
10	35	27	22	19	34	27	22	19	26	22	19	26	22	19	25	22	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5114	5114	5114
5°	5102	5116	5109
10°	5093	5107	5104
15°	5080	5095	5080
20°	5051	5054	5028
25°	5005	4974	4897
30°	4910	4825	4688
35°	4759	4601	4426
40°	4536	4289	4106
45°	4186	3879	3740
50°	3716	3422	3335
55°	3243	2980	2846
60°	2781	2466	2354
65°	2379	1964	2031
70°	2099	1608	1936
75°	1989	1556	2071
80°	2178	1916	2340
85°	2291	2170	2532



TEST NUMBER: 161P103
 CATALOG NUMBER: G-240A

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	138.2	4.2	2.6	0°	1460	1460	1460	1460	1460	
10°-20°	395.7	12.0	7.5	5°	1451	1452	1455	1456	1453	138
20°-30°	590.1	17.8	11.1	15°	1401	1402	1405	1404	1401	395
30°-40°	670.0	20.3	12.6	25°	1295	1294	1287	1275	1267	596
40°-50°	608.8	18.4	11.5	35°	1113	1103	1076	1046	1035	694
50°-60°	439.2	13.3	8.3	45°	845	824	783	757	755	649
60°-70°	256.2	7.7	4.8	55°	531	506	488	469	466	477
70°-80°	147.9	4.5	2.8	65°	287	260	237	248	245	289
80°-90°	59.9	1.8	1.1	75°	147	140	115	148	153	159
90°-100°	0.0	0.0	0.0	85°	57	55	54	61	63	57
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	4
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°	1123.9	34.0	21.2	165°	0	0	0	0	0	0
0°-40°	1793.9	54.3	33.8	175°	0	0	0	0	0	0
0°-60°	2841.9	86.0	53.6	180°	0	0	0	0	0	0
0°-90°	3305.9	100.0	62.4							
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°	3305.9	100.0	62.4							



TEST NUMBER: 161P103
 CATALOG NUMBER: G-240A

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1460	1460	1460	1460	1460
2.5°	1455	1457	1460	1460	1458
5°	1451	1452	1455	1456	1453
7.5°	1443	1444	1447	1448	1447
10°	1432	1434	1436	1438	1435
12.5°	1418	1419	1422	1423	1420
15°	1401	1402	1405	1404	1401
17.5°	1380	1381	1383	1381	1378
20°	1355	1356	1356	1353	1349
22.5°	1327	1327	1325	1318	1312
25°	1295	1294	1287	1275	1267
27.5°	1257	1255	1243	1225	1215
30°	1214	1211	1193	1169	1159
32.5°	1166	1160	1137	1109	1099
35°	1113	1103	1076	1046	1035
37.5°	1056	1042	1010	978	968
40°	992	974	938	908	898
42.5°	923	902	863	833	827
45°	845	824	783	757	755
47.5°	765	743	704	681	683
50°	682	662	628	608	612
52.5°	603	583	557	538	540
55°	531	506	488	469	466
57.5°	462	432	419	401	396
60°	397	365	352	340	336
62.5°	338	307	291	289	286
65°	287	260	237	248	245
67.5°	244	220	192	217	214
70°	205	188	157	192	189
72.5°	173	162	131	170	169
75°	147	140	115	148	153
77.5°	127	119	105	127	136
80°	108	98	95	106	116
82.5°	84	76	78	85	92
85°	57	55	54	61	63
87.5°	29	30	27	31	30
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



TEST NUMBER: 161P103
CATALOG NUMBER: G-240A

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)