

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: 105P108

Luminaire Tested: **2G-240A125**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 105P108
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2G-240A125
Description: 2 X 4 Recessed Troffer with a .125 pattern 12
acrylic lens.
Light Source: Two-F40CW/SS - 2750 Lumens ea. - 34 Watts ea.
Ballast/Driver: -

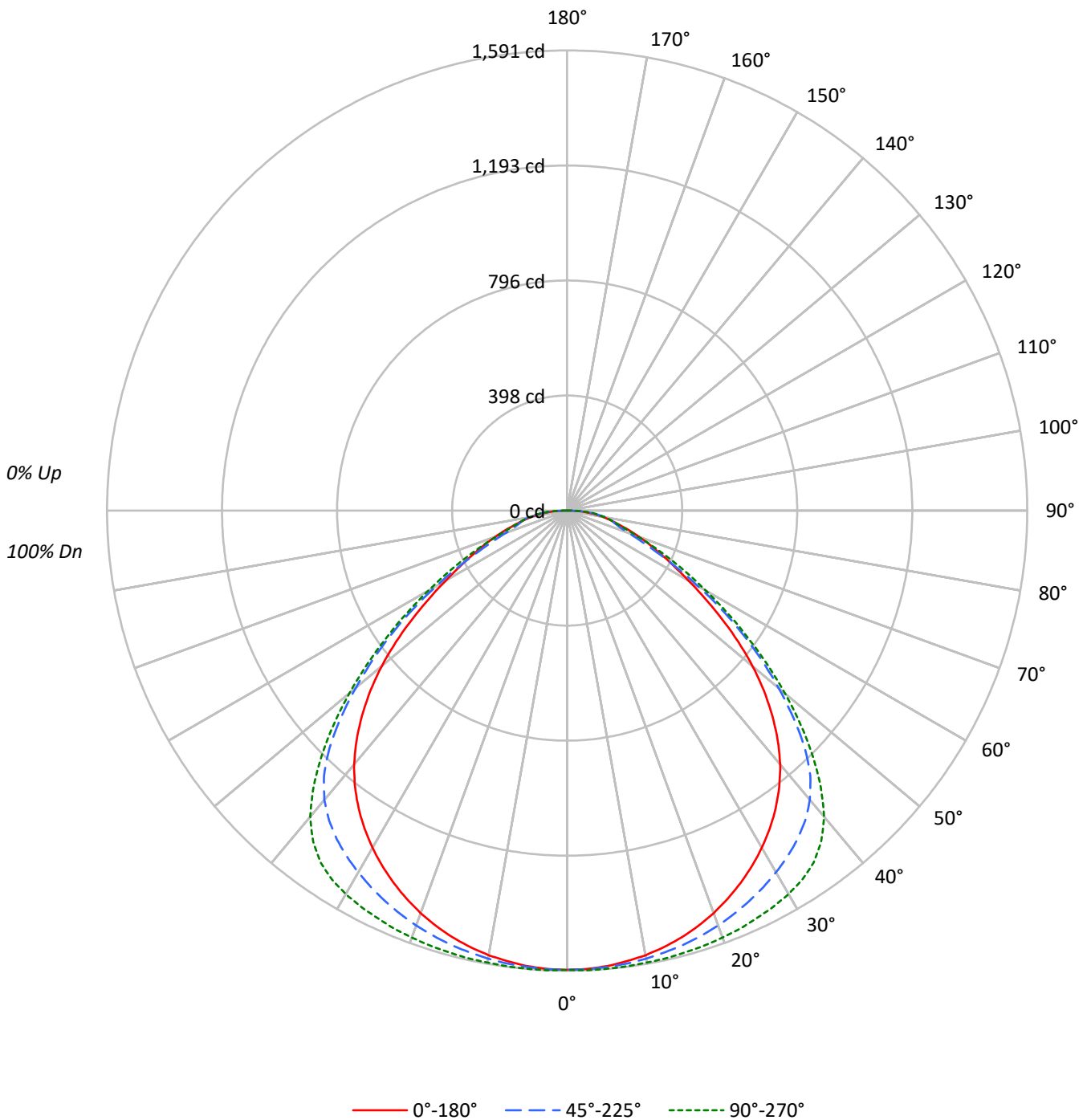
Summary

Lumens per Lamp: 2750 (2 lamps)
Luminaire Lumens: 4280.8 lumens
Efficiency: 77.8%
Efficacy: 57.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.43 / 1.44
Luminous Opening: Rectangular (W 1.79' x L: 3.81' x H: 0')
CIE Type: Direct

Input Watts (W): 74
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									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	50	30	10	0														
RCR																																						
0	93	93	93	93	91	91	91	91	86	86	86	83	83	83	79	79	79	79	79	79	79	79	79	78														
1	85	82	79	76	83	80	77	75	77	74	72	74	72	70	71	69	68	68	68	68	68	68	68	66														
2	78	72	67	63	76	71	66	62	68	64	61	65	62	59	63	60	58	58	58	58	58	58	58	57														
3	72	64	58	53	70	63	57	53	60	56	52	58	54	51	56	53	50	50	50	50	50	50	50	48														
4	66	57	50	46	64	56	50	45	54	49	45	52	48	44	51	47	43	43	43	43	43	43	43	42														
5	61	51	44	39	59	50	44	39	49	43	39	47	42	38	46	41	38	38	38	38	38	38	38	36														
6	56	46	39	35	55	45	39	34	44	38	34	43	38	34	42	37	34	34	34	34	34	34	34	32														
7	52	42	35	31	51	41	35	31	40	34	30	39	34	30	38	33	30	30	30	30	30	30	30	28														
8	48	38	32	27	47	38	32	27	37	31	27	36	31	27	35	30	27	27	27	27	27	27	27	25														
9	45	35	29	25	44	35	29	25	34	28	24	33	28	24	32	28	24	24	24	24	24	24	24	23														
10	42	32	26	22	41	32	26	22	31	26	22	30	26	22	30	25	22	22	22	22	22	22	22	21														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2502	2502	2502
5°	2501	2506	2515
10°	2498	2517	2539
15°	2493	2535	2579
20°	2484	2561	2634
25°	2469	2591	2702
30°	2449	2627	2786
35°	2418	2670	2859
40°	2357	2686	2843
45°	2235	2592	2679
50°	2052	2339	2410
55°	1791	2025	2085
60°	1529	1645	1743
65°	1335	1279	1443
70°	1216	1032	1179
75°	1114	1035	1102
80°	1134	1225	1198
85°	1175	1410	1501



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	150.8	3.5	2.7	0°	1588	1588	1588	1588	1588	
10°-20°	439.2	10.3	8.0	5°	1581	1581	1584	1585	1590	150
20°-30°	686.7	16.0	12.5	15°	1528	1535	1554	1571	1581	431
30°-40°	860.6	20.1	15.6	25°	1420	1441	1490	1534	1554	654
40°-50°	867.4	20.3	15.8	35°	1257	1299	1388	1458	1486	785
50°-60°	647.8	15.1	11.8	45°	1003	1075	1163	1198	1202	770
60°-70°	361.4	8.4	6.6	55°	652	695	737	757	759	585
70°-80°	188.4	4.4	3.4	65°	358	353	343	357	387	361
80°-90°	78.5	1.8	1.4	75°	183	166	170	176	181	198
90°-100°	0.0	0.0	0.0	85°	65	72	78	77	83	66
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°	1276.7	29.8	23.2	165°	0	0	0	0	0	0
0°-40°	2137.3	49.9	38.9	175°	0	0	0	0	0	0
0°-60°	3652.5	85.3	66.4	180°	0	0	0	0	0	0
0°-90°	4280.8	100.0	77.8							
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°	4280.8	100.0	77.8							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1588	1588	1588	1588	1588
2.5°	1586	1586	1587	1586	1591
5°	1581	1581	1584	1585	1590
7.5°	1572	1574	1580	1583	1589
10°	1561	1564	1573	1580	1587
12.5°	1546	1551	1564	1576	1585
15°	1528	1535	1554	1571	1581
17.5°	1506	1516	1541	1563	1577
20°	1481	1492	1527	1555	1571
22.5°	1452	1469	1509	1545	1564
25°	1420	1441	1490	1534	1554
27.5°	1385	1410	1468	1520	1544
30°	1346	1376	1444	1505	1531
32.5°	1304	1339	1418	1485	1513
35°	1257	1299	1388	1458	1486
37.5°	1205	1254	1352	1420	1443
40°	1146	1204	1306	1363	1382
42.5°	1078	1146	1245	1288	1299
45°	1003	1075	1163	1198	1202
47.5°	923	986	1062	1096	1095
50°	837	889	954	986	983
52.5°	746	791	847	872	869
55°	652	695	737	757	759
57.5°	564	604	628	646	654
60°	485	515	522	538	553
62.5°	417	431	426	438	466
65°	358	353	343	357	387
67.5°	309	286	276	292	316
70°	264	233	224	242	256
72.5°	222	192	190	203	211
75°	183	166	170	176	181
77.5°	152	147	158	156	156
80°	125	128	135	138	132
82.5°	96	104	107	112	109
85°	65	72	78	77	83
87.5°	37	38	43	40	45
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)