

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: 105P117

Luminaire Tested: **2G-340A**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 105P117
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2G-340A
Description: 2 X 4 Recessed Troffer with a
.095 pattern 12 acrylic lens.
Light Source: Three-F40CW/RS/WM - 2650 Lumens ea. - 34 Watts ea.
Ballast/Driver: Advance R-2S40-1-TP

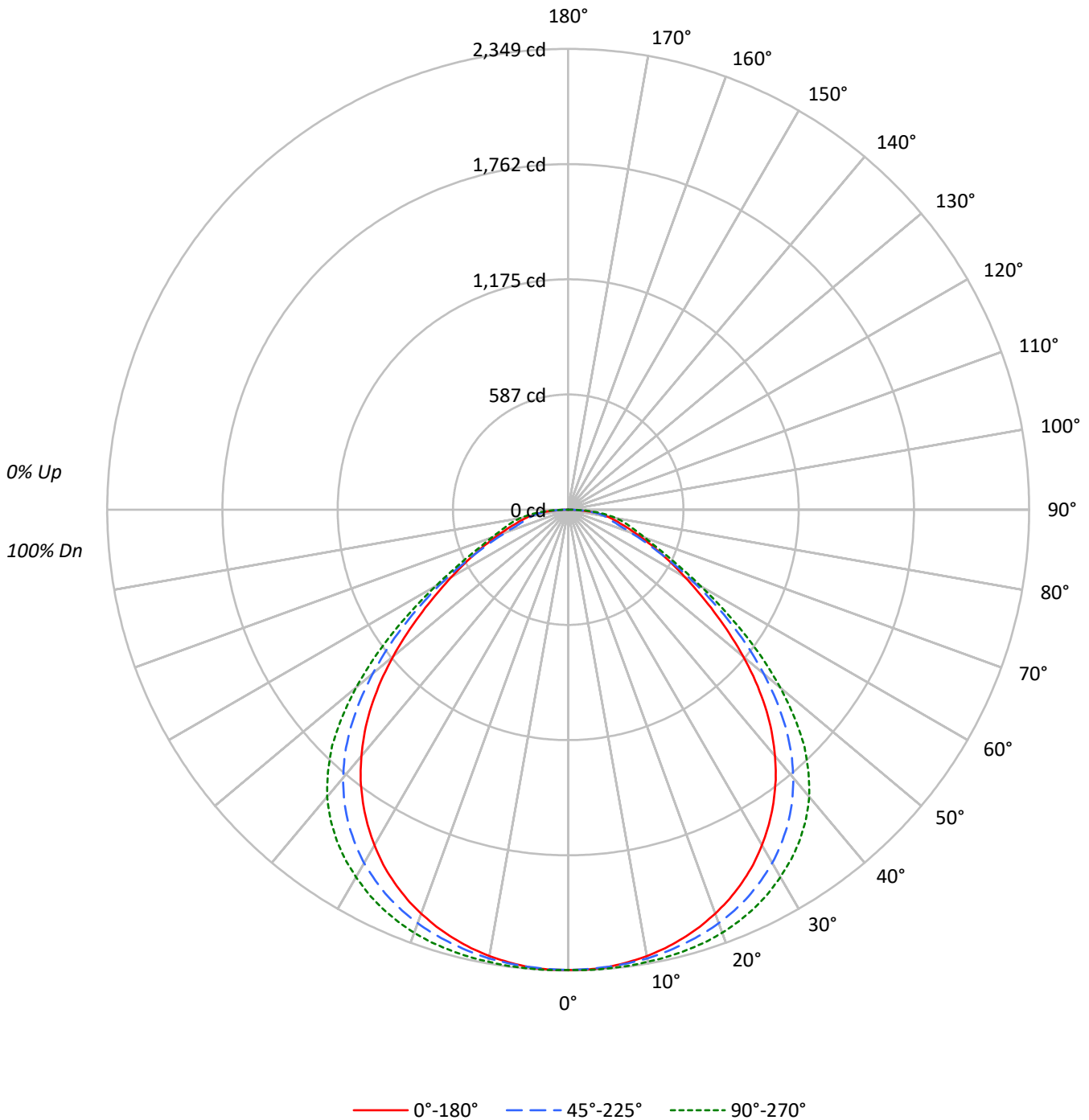
Summary

Lumens per Lamp: 2650 (3 lamps)
Luminaire Lumens: 6130.3 lumens
Efficiency: 77.1%
Efficacy: 53.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.36 / 1.38
Luminous Opening: Rectangular (W 1.79' x L: 3.81' x H: 0')
CIE Type: Direct

Input Watts (W): 115.4
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

TEST NUMBER: 105P117
CATALOG NUMBER: 2G-340A

Luminous Intensity Polar Plot





TEST NUMBER: 105P117
 CATALOG NUMBER: 2G-340A

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	50	30	10	0		
RCR																										
0	92	92	92	92	90	90	90	90	86	86	86	82	82	82	79	79	79	77	77	77	77	77	77	77		
1	84	81	78	75	82	79	76	74	76	74	71	73	71	69	70	69	67	66	66	66	66	66	66	66		
2	77	71	66	62	75	70	65	61	67	63	60	65	61	59	62	60	57	56	56	56	56	56	56	56		
3	71	63	57	52	69	62	56	52	60	55	51	58	54	50	56	52	49	48	48	48	48	48	48	48		
4	65	56	50	45	63	55	49	45	53	48	44	52	47	43	50	46	43	41	41	41	41	41	41	41		
5	60	51	44	39	59	50	44	39	48	43	38	47	42	38	45	41	38	36	36	36	36	36	36	36		
6	56	46	39	34	54	45	39	34	44	38	34	42	37	34	41	37	33	32	32	32	32	32	32	32		
7	52	42	35	30	50	41	35	30	40	34	30	39	34	30	38	33	30	28	28	28	28	28	28	28		
8	48	38	32	27	47	37	31	27	36	31	27	36	31	27	35	30	27	25	25	25	25	25	25	25		
9	45	35	29	25	44	34	29	25	34	28	24	33	28	24	32	27	24	23	23	23	23	23	23	23		
10	42	32	26	22	41	32	26	22	31	26	22	30	26	22	30	25	22	21	21	21	21	21	21	21		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3697	3697	3697
5°	3701	3700	3712
10°	3696	3715	3744
15°	3689	3736	3793
20°	3674	3761	3849
25°	3646	3782	3898
30°	3594	3785	3934
35°	3509	3757	3957
40°	3374	3672	3931
45°	3164	3490	3791
50°	2856	3187	3459
55°	2492	2788	2984
60°	2162	2329	2455
65°	1917	1883	2066
70°	1751	1543	1898
75°	1693	1455	1979
80°	1851	1715	2260
85°	1989	2007	2549



TEST NUMBER: 105P117
 CATALOG NUMBER: 2G-340A

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	222.9	3.6	2.8	0°	2346	2346	2346	2346	2346	
10°-20°	647.4	10.6	8.1	5°	2340	2337	2339	2342	2347	222
20°-30°	1000.5	16.3	12.6	15°	2261	2268	2290	2313	2325	638
30°-40°	1214.0	19.8	15.3	25°	2097	2121	2175	2221	2242	966
40°-50°	1196.1	19.5	15.0	35°	1824	1866	1953	2022	2057	1138
50°-60°	897.2	14.6	11.3	45°	1420	1467	1566	1652	1701	1089
60°-70°	527.5	8.6	6.6	55°	907	942	1015	1053	1086	816
70°-80°	300.9	4.9	3.8	65°	514	498	505	548	554	516
80°-90°	123.8	2.0	1.6	75°	278	271	239	312	325	300
90°-100°	0.0	0.0	0.0	85°	110	105	111	135	141	109
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	8
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°	1870.8	30.5	23.5	165°	0	0	0	0	0	0
0°-40°	3084.8	50.3	38.8	175°	0	0	0	0	0	0
0°-60°	5178.1	84.5	65.1	180°	0	0	0	0	0	0
0°-90°	6130.3	100.0	77.1							
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°	6130.3	100.0	77.1							



TEST NUMBER: 105P117
 CATALOG NUMBER: 2G-340A

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2346	2346	2346	2346	2346
2.5°	2346	2344	2343	2344	2349
5°	2340	2337	2339	2342	2347
7.5°	2327	2326	2332	2339	2345
10°	2310	2312	2322	2333	2340
12.5°	2289	2292	2308	2324	2334
15°	2261	2268	2290	2313	2325
17.5°	2229	2240	2269	2298	2313
20°	2191	2206	2243	2278	2295
22.5°	2148	2166	2212	2253	2271
25°	2097	2121	2175	2221	2242
27.5°	2041	2069	2130	2182	2206
30°	1975	2009	2080	2136	2162
32.5°	1903	1942	2020	2083	2114
35°	1824	1866	1953	2022	2057
37.5°	1737	1781	1875	1951	1990
40°	1640	1688	1785	1869	1911
42.5°	1535	1583	1683	1768	1812
45°	1420	1467	1566	1652	1701
47.5°	1295	1341	1438	1517	1561
50°	1165	1210	1300	1368	1411
52.5°	1034	1077	1159	1211	1250
55°	907	942	1015	1053	1086
57.5°	789	812	872	902	926
60°	686	693	739	765	779
62.5°	595	587	616	647	654
65°	514	498	505	548	554
67.5°	444	423	412	470	474
70°	380	363	335	408	412
72.5°	325	313	278	357	364
75°	278	271	239	312	325
77.5°	240	232	213	268	289
80°	204	191	189	226	249
82.5°	161	148	156	184	199
85°	110	105	111	135	141
87.5°	56	59	60	74	75
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: 105P117
CATALOG NUMBER: 2G-340A

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)