

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: 144P107

Luminaire Tested: **SA-340IMA**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 144P107
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: SA-340IMA
Description: Surface Mount Architectural Wrap with
an injection molded acrylic lens.
Light Source: Three-F40CW - 3150 Lumens ea. - 40 Watts ea.
Ballast/Driver: -

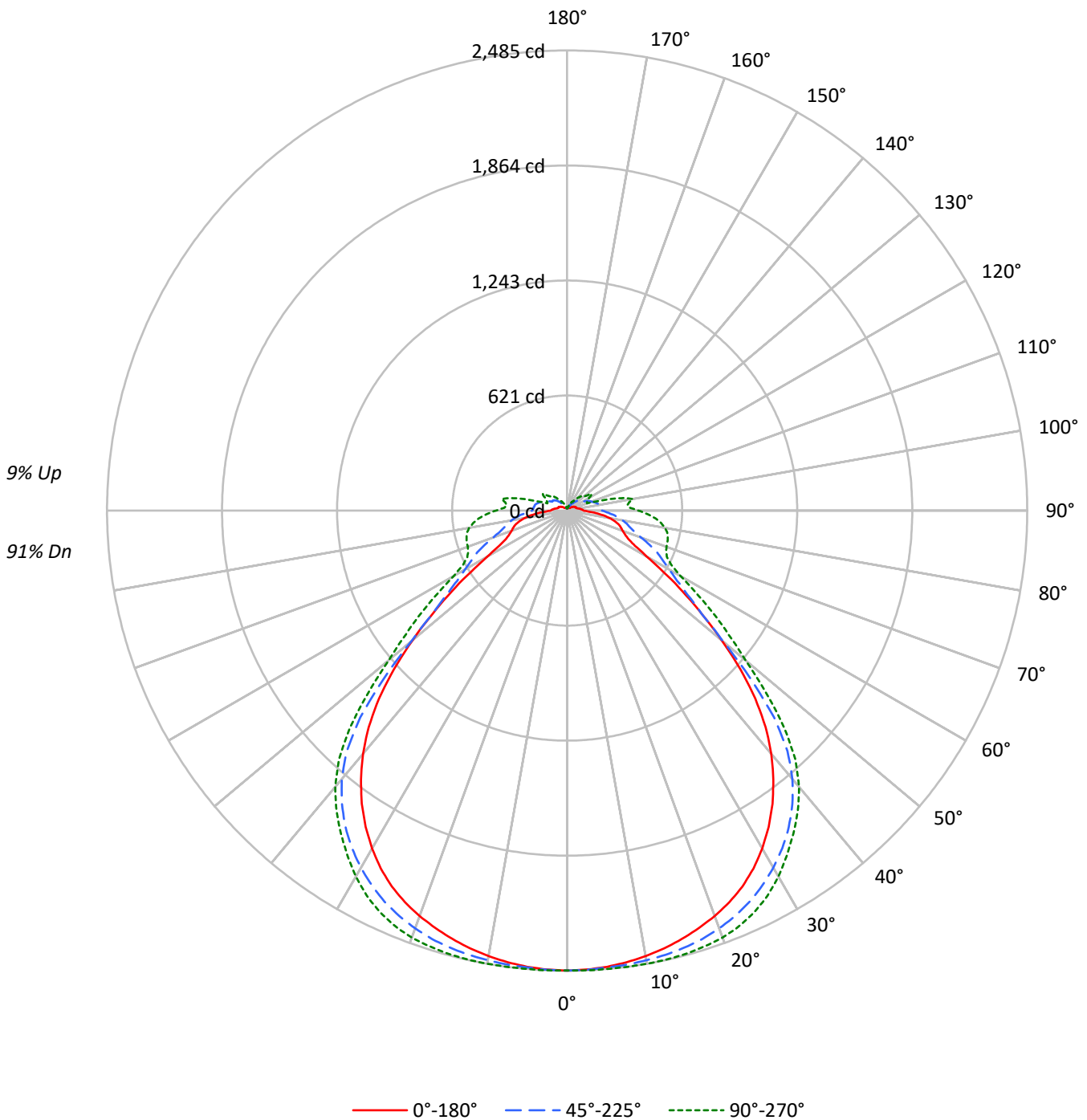
Summary

Lumens per Lamp: 3150 (3 lamps)
Luminaire Lumens: 7204.7 lumens
Efficiency: 76.2%
Efficacy: 54.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.34 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 1.3' x L: 4.05' x H: 0.2')
CIE Type: Direct

Input Watts (W): 131.7
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									
RC	80									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	89	89	89	89	86	86	86	86	81	81	81	76	76	76	71	71	71	69																			
1	81	77	74	71	78	75	72	69	70	68	65	66	64	62	62	61	59	57																			
2	74	68	63	58	71	66	61	57	62	58	55	58	55	52	55	53	50	48																			
3	68	60	54	49	65	58	53	48	55	50	47	52	48	45	49	46	43	41																			
4	62	54	47	42	60	52	46	42	49	44	40	47	42	39	44	41	38	36																			
5	58	48	42	37	56	47	41	36	45	39	35	42	38	34	40	36	33	31																			
6	53	44	37	32	51	42	36	32	40	35	31	38	34	30	37	33	29	28																			
7	50	40	33	29	48	39	33	28	37	32	28	35	31	27	34	30	26	25																			
8	46	36	30	26	45	35	30	25	34	29	25	32	28	24	31	27	24	22																			
9	43	33	27	23	42	33	27	23	31	26	22	30	25	22	29	25	22	20																			
10	41	31	25	21	39	30	25	21	29	24	20	28	23	20	27	23	20	18																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5088	5088	5088
5°	5063	5031	5042
10°	5038	5004	5033
15°	5013	4992	5049
20°	4990	4976	5068
25°	4950	4940	5049
30°	4847	4867	4961
35°	4674	4746	4812
40°	4405	4521	4618
45°	3969	4006	4167
50°	3283	2994	3392
55°	2541	2356	2815
60°	1870	2090	2284
65°	1601	1990	2173
70°	1685	1829	2410
75°	1928	1819	2839
80°	2152	1990	3396
85°	2353	2200	4094



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	236.1	3.3	2.5	0°	2484	2484	2484	2484	2484	
10°-20°	689.5	9.6	7.3	5°	2473	2472	2477	2481	2485	235
20°-30°	1069.2	14.8	11.3	15°	2395	2410	2444	2468	2478	676
30°-40°	1281.9	17.8	13.6	25°	2240	2270	2331	2374	2393	1030
40°-50°	1189.3	16.5	12.6	35°	1933	1985	2087	2120	2130	1204
50°-60°	792.3	11.0	8.4	45°	1437	1488	1580	1655	1658	1096
60°-70°	523.4	7.3	5.5	55°	761	861	794	983	960	687
70°-80°	421.8	5.9	4.5	65°	365	449	536	602	595	377
80°-90°	324.0	4.5	3.4	75°	288	313	352	502	563	299
90°-100°	226.1	3.1	2.4	85°	156	205	246	431	478	143
100°-110°	167.7	2.3	1.8	90°	88	129	188	350	384	51
110°-120°	99.5	1.4	1.1	95°	78	121	182	313	326	61
120°-130°	82.2	1.1	0.9	105°	52	93	161	248	239	57
130°-140°	53.3	0.7	0.6	115°	47	74	123	115	121	46
140°-150°	28.5	0.4	0.3	125°	34	51	95	145	160	31
150°-160°	13.6	0.2	0.1	135°	22	34	73	103	111	18
160°-170°	5.0	0.1	0.1	145°	17	28	47	62	67	11
170°-180°	1.2	0.0	0.0	155°	15	19	29	39	41	7
0°-30°	1994.8	27.7	21.1	165°	13	13	16	20	22	4
0°-40°	3276.7	45.5	34.7	175°	13	13	12	13	13	1
0°-60°	5258.4	73.0	55.6	180°	13	13	13	13	13	
0°-90°	6527.5	90.6	69.1							
90°-120°	493.4	6.8	5.2							
90°-150°	657.4	9.1	7.0							
90°-180°	677.0	9.4	7.2							
0°-180°	7204.7	100.0	76.2							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2484	2484	2484	2484	2484
2.5°	2481	2480	2482	2482	2485
5°	2473	2472	2477	2481	2485
7.5°	2460	2462	2473	2480	2485
10°	2443	2449	2466	2478	2485
12.5°	2422	2432	2457	2475	2483
15°	2395	2410	2444	2468	2478
17.5°	2364	2384	2426	2455	2468
20°	2330	2352	2401	2437	2454
22.5°	2289	2315	2370	2412	2429
25°	2240	2270	2331	2374	2393
27.5°	2179	2216	2283	2327	2344
30°	2107	2151	2227	2267	2282
32.5°	2025	2075	2162	2198	2208
35°	1933	1985	2087	2120	2130
37.5°	1829	1881	1998	2035	2046
40°	1715	1765	1893	1938	1948
42.5°	1586	1634	1761	1819	1824
45°	1437	1488	1580	1655	1658
47.5°	1269	1324	1343	1452	1458
50°	1090	1147	1099	1255	1258
52.5°	918	990	916	1106	1098
55°	761	861	794	983	960
57.5°	616	742	704	872	823
60°	495	628	636	764	705
62.5°	413	526	583	672	632
65°	365	449	536	602	595
67.5°	338	396	481	558	578
70°	319	360	425	532	571
72.5°	305	334	380	514	568
75°	288	313	352	502	563
77.5°	264	294	330	493	554
80°	233	271	305	478	537
82.5°	197	241	278	457	511
85°	156	205	246	431	478
87.5°	115	167	215	397	435
90°	88	129	188	350	384
92.5°	84	126	185	329	339
95°	78	121	182	313	326
97.5°	71	114	178	302	337
100°	63	107	177	297	360
102.5°	57	100	170	274	313
105°	52	93	161	248	239
107.5°	51	87	151	190	161
110°	50	83	140	145	114



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	49	79	133	118	115
115°	47	74	123	115	121
117.5°	44	68	110	119	126
120°	41	62	97	127	136
122.5°	38	56	93	142	154
125°	34	51	95	145	160
127.5°	31	46	91	124	131
130°	28	42	87	114	119
132.5°	25	38	82	111	117
135°	22	34	73	103	111
137.5°	21	33	65	90	100
140°	19	31	58	78	88
142.5°	18	30	52	70	75
145°	17	28	47	62	67
147.5°	17	25	42	55	60
150°	16	23	38	50	54
152.5°	15	21	33	44	48
155°	15	19	29	39	41
157.5°	14	17	26	34	36
160°	14	15	22	29	31
162.5°	14	13	19	25	26
165°	13	13	16	20	22
167.5°	13	13	14	17	18
170°	13	13	13	14	15
172.5°	13	13	12	13	13
175°	13	13	12	13	13
177.5°	13	13	13	13	13
180°	13	13	13	13	13

(END OF REPORT)