

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: 134p116

Luminaire Tested: **EFIX-2W**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 134p116
Test Lab: METALUX RESEARCH LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: EFIX-2W
Description: W SERIES WRAPAROUND LUMINAIRE
Light Source: F28T8-SP35-UMX-ECO- 2750 LUMENS EA. - 28 WATTS EA
Ballast/Driver: GE-232-MAX-L/ULTRA

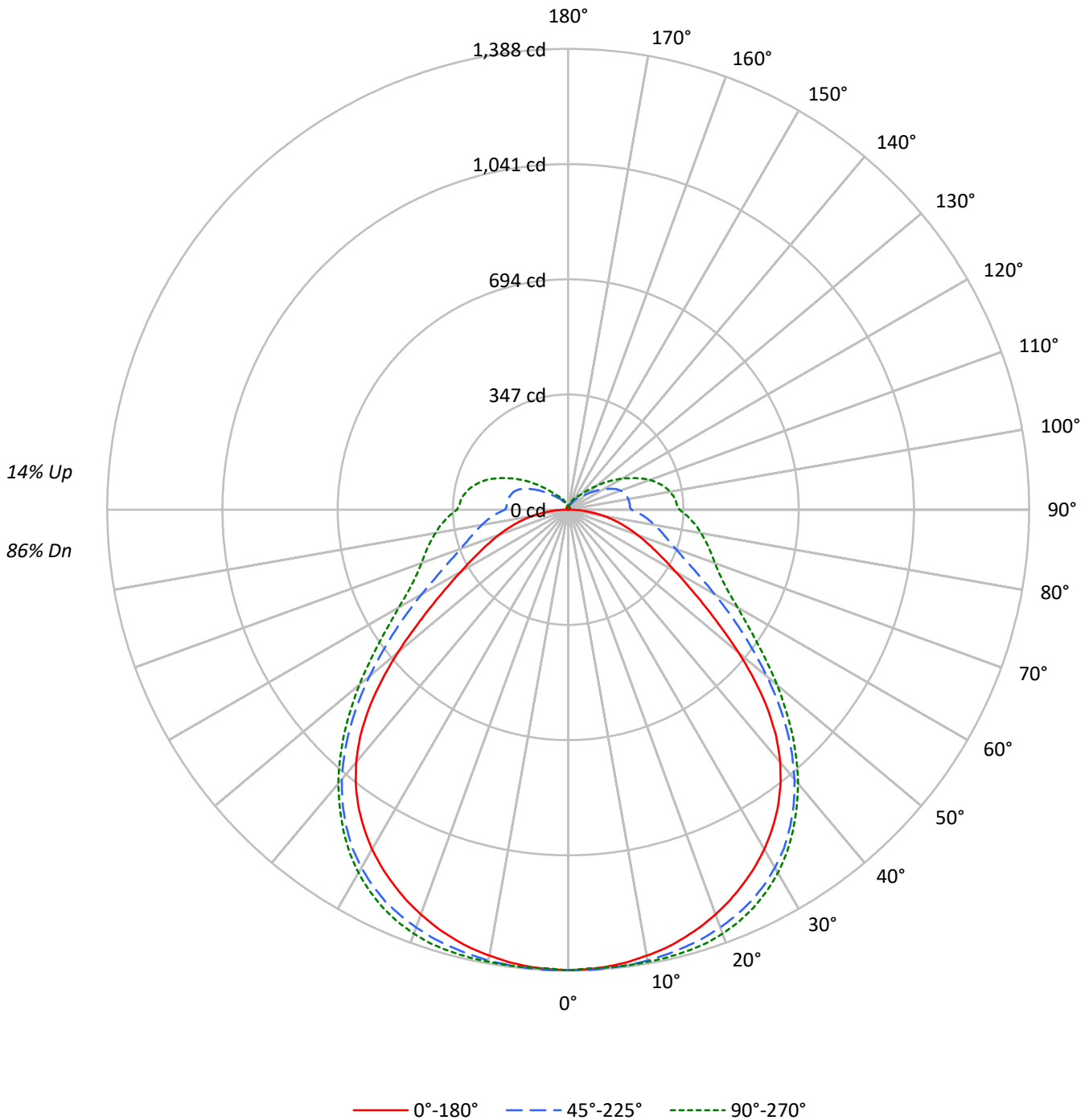
Summary

Lumens per Lamp: 2750 (2 lamps)
Luminaire Lumens: 4704.1 lumens
Efficiency: 85.5%
Efficacy: 109.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.33 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.71' x L: 4' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 43
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	0
RCR																		
0	99	99	99	99	95	95	95	95	88	88	88	82	82	82	76	76	76	74
1	89	85	81	77	86	82	78	75	76	73	70	71	68	66	66	64	62	60
2	81	74	68	63	78	71	66	61	66	62	58	62	58	55	58	55	52	49
3	74	65	58	52	71	63	56	51	59	53	49	55	50	46	51	47	44	42
4	68	58	50	45	65	56	49	44	52	46	42	49	44	40	46	42	38	36
5	63	52	44	38	60	50	43	38	47	41	36	44	39	35	41	37	33	31
6	58	47	39	34	55	45	38	33	42	36	32	40	35	31	37	33	29	27
7	54	42	35	30	51	41	34	29	39	33	28	36	31	27	34	30	26	24
8	50	38	31	26	48	37	31	26	35	29	25	33	28	24	31	27	23	22
9	47	35	28	24	45	34	28	23	32	27	23	31	26	22	29	25	21	20
10	44	33	26	21	42	32	25	21	30	24	21	28	23	20	27	23	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5231	5231	5231
5°	5209	5159	5134
10°	5185	5106	5087
15°	5162	5058	5060
20°	5128	5018	5027
25°	5082	4967	4961
30°	5022	4874	4846
35°	4916	4720	4669
40°	4723	4486	4433
45°	4352	4148	4125
50°	3745	3719	3768
55°	3084	3272	3412
60°	2624	2871	3158
65°	2351	2588	3062
70°	2196	2472	3157
75°	2081	2532	3410
80°	1932	2725	3793
85°	1641	3086	4398



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	131.9	2.8	2.4	0°	1387	1387	1387	1387	1387	
10°-20°	384.6	8.2	7.0	5°	1381	1383	1386	1387	1384	131
20°-30°	595.7	12.7	10.8	15°	1337	1346	1363	1377	1377	377
30°-40°	719.8	15.3	13.1	25°	1245	1267	1302	1320	1322	574
40°-50°	705.1	15.0	12.8	35°	1099	1132	1165	1179	1180	685
50°-60°	556.5	11.8	10.1	45°	850	893	929	949	954	649
60°-70°	405.3	8.6	7.4	55°	497	563	636	679	692	452
70°-80°	314.5	6.7	5.7	65°	287	320	411	484	515	288
80°-90°	240.0	5.1	4.4	75°	165	192	300	393	438	175
90°-100°	190.0	4.0	3.5	85°	56	109	230	330	373	57
100°-110°	171.3	3.6	3.1	90°	5	64	190	296	335	5
110°-120°	131.4	2.8	2.4	95°	0	60	186	288	325	0
120°-130°	80.4	1.7	1.5	105°	2	63	178	263	290	2
130°-140°	41.2	0.9	0.7	115°	4	61	149	207	225	4
140°-150°	21.2	0.4	0.4	125°	6	45	97	136	149	6
150°-160°	10.3	0.2	0.2	135°	7	29	58	77	82	6
160°-170°	4.1	0.1	0.1	145°	8	21	37	47	48	5
170°-180°	0.9	0.0	0.0	155°	8	16	22	30	31	4
0°-30°	1112.2	23.6	20.2	165°	9	12	14	16	18	3
0°-40°	1832.0	38.9	33.3	175°	10	11	10	7	7	1
0°-60°	3093.6	65.8	56.2	180°	8	8	8	8	8	
0°-90°	4053.5	86.2	73.7							
90°-120°	492.6	10.5	9.0							
90°-150°	635.3	13.5	11.6							
90°-180°	651.0	13.8	11.8							
0°-180°	4704.1	100.0	85.5							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1387	1387	1387	1387	1387
2.5°	1385	1386	1388	1388	1383
5°	1381	1383	1386	1387	1384
7.5°	1374	1377	1383	1386	1384
10°	1364	1370	1379	1385	1383
12.5°	1353	1358	1372	1382	1381
15°	1337	1346	1363	1377	1377
17.5°	1319	1331	1353	1370	1371
20°	1297	1313	1339	1358	1359
22.5°	1273	1291	1322	1341	1343
25°	1245	1267	1302	1320	1322
27.5°	1215	1240	1276	1294	1295
30°	1181	1209	1245	1261	1263
32.5°	1142	1173	1209	1224	1225
35°	1099	1132	1165	1179	1180
37.5°	1050	1084	1116	1129	1130
40°	993	1028	1060	1074	1077
42.5°	927	965	997	1013	1017
45°	850	893	929	949	954
47.5°	762	813	856	882	887
50°	670	729	781	813	821
52.5°	578	643	707	744	754
55°	497	563	636	679	692
57.5°	429	489	569	619	636
60°	373	425	509	567	588
62.5°	326	368	456	521	547
65°	287	320	411	484	515
67.5°	253	279	374	454	490
70°	222	245	344	430	470
72.5°	193	216	320	410	453
75°	165	192	300	393	438
77.5°	138	170	282	376	422
80°	110	150	264	360	406
82.5°	83	130	247	345	391
85°	56	109	230	330	373
87.5°	30	86	210	314	355
90°	5	64	190	296	335
92.5°	0	59	186	290	328
95°	0	60	186	288	325
97.5°	0	61	185	284	319
100°	1	62	184	279	311
102.5°	2	62	181	272	302
105°	2	63	178	263	290
107.5°	3	64	174	252	277
110°	3	64	168	239	262



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	4	63	160	224	244
115°	4	61	149	207	225
117.5°	5	57	136	189	205
120°	5	53	123	172	187
122.5°	6	49	110	154	167
125°	6	45	97	136	149
127.5°	7	41	85	119	130
130°	7	35	75	103	112
132.5°	7	32	65	89	96
135°	7	29	58	77	82
137.5°	7	26	51	66	70
140°	8	24	45	58	61
142.5°	7	23	42	52	54
145°	8	21	37	47	48
147.5°	8	19	32	42	44
150°	8	18	28	39	40
152.5°	8	17	25	34	37
155°	8	16	22	30	31
157.5°	8	14	20	26	27
160°	9	13	18	22	24
162.5°	9	12	16	20	21
165°	9	12	14	16	18
167.5°	9	11	12	13	15
170°	10	11	11	11	12
172.5°	10	11	10	9	10
175°	10	11	10	7	7
177.5°	11	10	9	6	6
180°	8	8	8	8	8

(END OF REPORT)