

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: 215P102

Luminaire Tested: **WE-240A**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 215P102
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: WE-240A
Description: 4 FT. Economy Wrap Luminaire with an acrylic prismatic lens
Light Source: Two - F40CW/RS/WM - 2650 Lumens ea. - 34 Watts ea.
Ballast/Driver: Advance HB-234-TP Magnetic

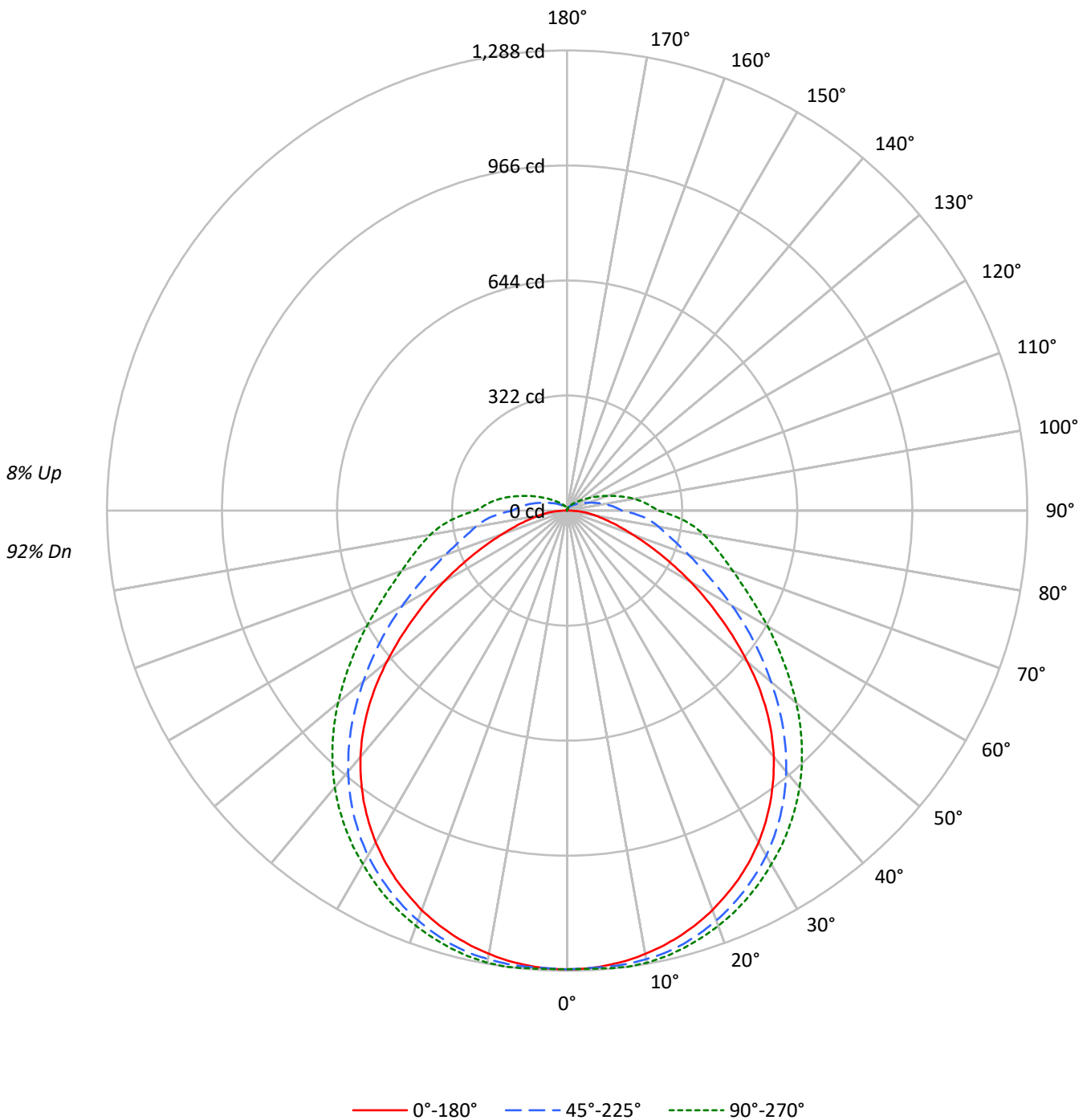
Summary

Lumens per Lamp: 2650 (2 lamps)
Luminaire Lumens: 4183.0 lumens
Efficiency: 78.9%
Efficacy: 70.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.32 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.6' x L: 3.92' x H: 0.1')
CIE Type: Direct

Input Watts (W): 59.3
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	93	93	93	93	90	90	90	90	84	84	84	79	79	79	75	75	75	73
1	83	79	75	72	81	77	73	70	72	69	67	68	66	64	64	62	61	59
2	76	69	63	58	73	67	61	57	63	59	55	59	56	53	56	53	51	48
3	69	60	54	48	66	59	52	47	55	50	46	52	48	44	50	46	43	41
4	63	53	46	41	61	52	45	40	49	44	39	47	42	38	44	40	37	35
5	58	48	41	35	56	46	40	35	44	38	34	42	37	33	40	35	32	30
6	54	43	36	31	52	42	35	30	40	34	30	38	33	29	36	32	28	26
7	50	39	32	27	48	38	31	27	36	30	26	35	29	26	33	28	25	23
8	46	35	29	24	45	35	28	24	33	27	23	32	27	23	30	26	22	21
9	43	33	26	22	42	32	26	21	30	25	21	29	24	21	28	23	20	19
10	40	30	24	20	39	29	23	19	28	23	19	27	22	19	26	22	18	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5840	5840	5840
5°	5822	5782	5784
10°	5792	5746	5760
15°	5756	5699	5703
20°	5705	5622	5634
25°	5636	5529	5556
30°	5545	5416	5460
35°	5413	5262	5366
40°	5227	5066	5249
45°	4944	4816	5097
50°	4520	4514	4913
55°	4003	4213	4709
60°	3470	3898	4539
65°	2902	3621	4423
70°	2417	3472	4449
75°	2030	3491	4683
80°	1821	3787	5151
85°	1681	4321	5814



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	122.3	2.9	2.3	0°	1284	1284	1284	1284	1284	
10°-20°	354.3	8.5	6.7	5°	1278	1281	1282	1291	1286	121
20°-30°	540.9	12.9	10.2	15°	1231	1245	1256	1270	1267	347
30°-40°	652.3	15.6	12.3	25°	1137	1160	1174	1195	1196	524
40°-50°	661.9	15.8	12.5	35°	993	1022	1041	1075	1083	620
50°-60°	570.3	13.6	10.8	45°	789	814	854	912	929	606
60°-70°	429.5	10.3	8.1	55°	524	563	638	716	740	470
70°-80°	311.7	7.5	5.9	65°	285	329	438	529	563	286
80°-90°	215.5	5.2	4.1	75°	127	179	303	406	438	138
90°-100°	131.4	3.1	2.5	85°	42	96	216	305	331	42
100°-110°	85.9	2.1	1.6	90°	1	48	153	232	256	3
110°-120°	49.5	1.2	0.9	95°	1	40	130	200	223	1
120°-130°	27.7	0.7	0.5	105°	1	28	83	134	153	1
130°-140°	15.6	0.4	0.3	115°	1	20	50	79	92	1
140°-150°	8.6	0.2	0.2	125°	1	16	33	46	52	1
150°-160°	4.3	0.1	0.1	135°	2	12	22	29	31	2
160°-170°	1.3	0.0	0.0	145°	3	9	15	19	19	2
170°-180°	0.0	0.0	0.0	155°	3	7	10	12	13	1
0°-30°	1017.5	24.3	19.2	165°	4	5	6	6	7	1
0°-40°	1669.8	39.9	31.5	175°	0	0	0	0	0	0
0°-60°	2902.0	69.4	54.8	180°	0	0	0	0	0	
0°-90°	3858.7	92.2	72.8							
90°-120°	266.8	6.4	5.0							
90°-150°	318.6	7.6	6.0							
90°-180°	324.0	7.7	6.1							
0°-180°	4183.0	100.0	78.9							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1284	1284	1284	1284	1284
2.5°	1283	1284	1282	1289	1284
5°	1278	1281	1282	1291	1286
7.5°	1271	1276	1280	1292	1288
10°	1260	1269	1275	1289	1285
12.5°	1247	1258	1268	1281	1278
15°	1231	1245	1256	1270	1267
17.5°	1212	1229	1240	1256	1253
20°	1190	1209	1221	1239	1237
22.5°	1164	1186	1199	1219	1218
25°	1137	1160	1174	1195	1196
27.5°	1106	1131	1146	1169	1171
30°	1072	1098	1115	1140	1143
32.5°	1034	1062	1080	1108	1115
35°	993	1022	1041	1075	1083
37.5°	948	977	999	1039	1049
40°	900	927	954	999	1012
42.5°	847	873	905	957	972
45°	789	814	854	912	929
47.5°	726	751	800	865	884
50°	659	687	745	816	837
52.5°	591	624	691	765	788
55°	524	563	638	716	740
57.5°	460	502	585	667	694
60°	399	440	533	618	648
62.5°	340	382	483	572	603
65°	285	329	438	529	563
67.5°	237	283	397	491	526
70°	195	243	362	458	493
72.5°	158	207	330	431	464
75°	127	179	303	406	438
77.5°	101	155	279	382	413
80°	80	136	260	358	389
82.5°	62	116	240	332	362
85°	42	96	216	305	331
87.5°	20	72	186	269	294
90°	1	48	153	232	256
92.5°	1	43	141	215	238
95°	1	40	130	200	223
97.5°	1	36	118	185	207
100°	1	33	106	168	190
102.5°	1	31	94	151	172
105°	1	28	83	134	153
107.5°	1	26	73	118	136
110°	1	24	64	103	120



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1	22	57	90	106
115°	1	20	50	79	92
117.5°	1	19	45	70	80
120°	1	18	40	61	70
122.5°	1	17	36	53	60
125°	1	16	33	46	52
127.5°	1	15	29	41	46
130°	2	14	26	36	40
132.5°	2	13	24	32	36
135°	2	12	22	29	31
137.5°	2	11	20	26	28
140°	2	10	18	23	24
142.5°	2	9	17	21	22
145°	3	9	15	19	19
147.5°	3	8	14	17	18
150°	3	8	12	15	16
152.5°	3	7	11	14	14
155°	3	7	10	12	13
157.5°	3	6	9	11	11
160°	4	6	8	9	10
162.5°	4	5	7	8	8
165°	4	5	6	6	7
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)