

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: P30242

Luminaire Tested: **CR-117A-UNV-EB81**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P30242
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: CR-117A-UNV-EB81
Description: METALUX CR 2FT COMMERCIAL CORRIDOR LUMINAIRE WITH A WHITE
BALLAST COVER, NO REFLECTOR, WRAPAROUND ACRYLIC LENS
Light Source: ONE (1) 17W T8 LAMP - 1350 LUMENS EA
Ballast/Driver: B132IUNVHE-B

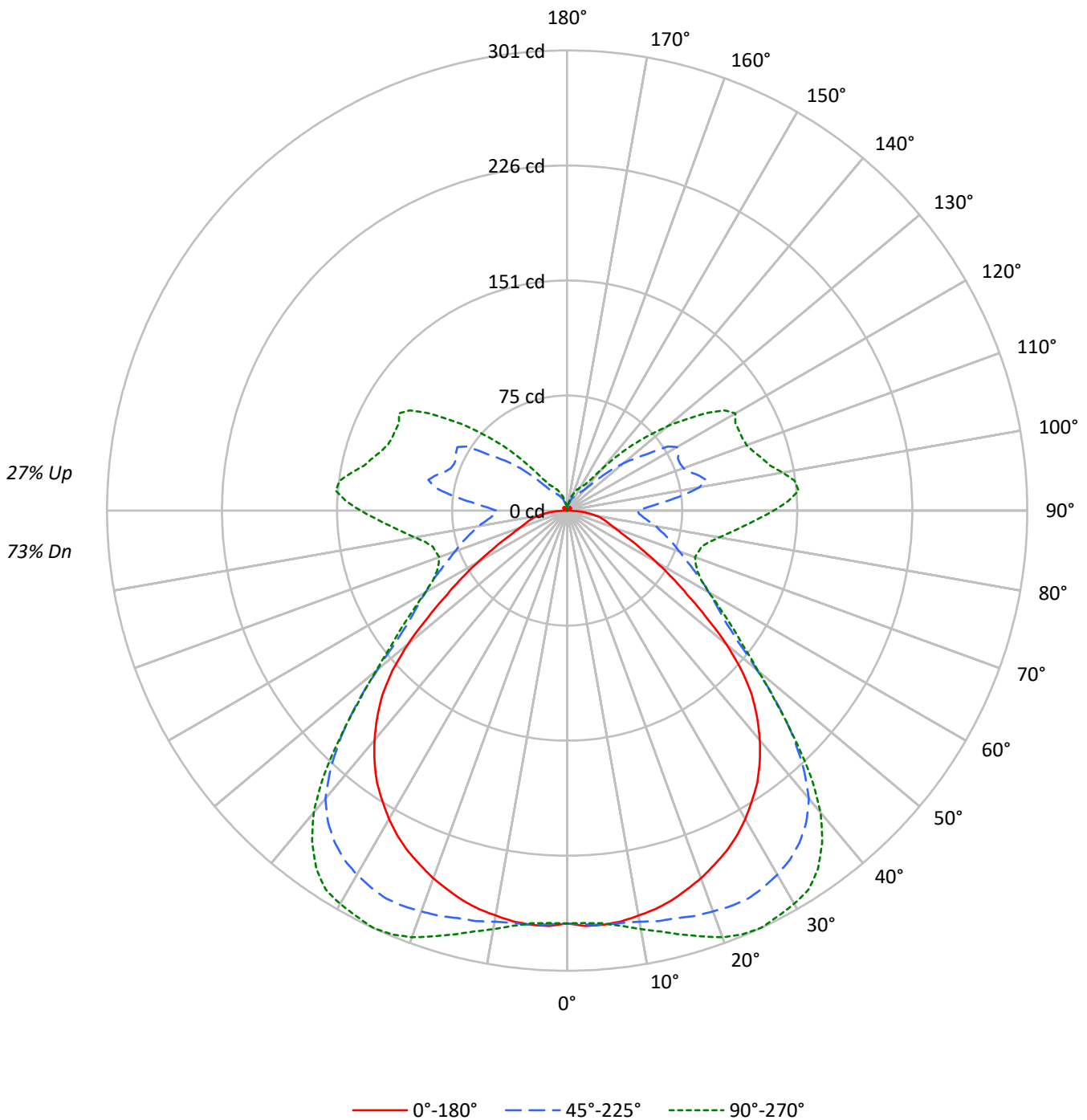
Summary

Lumens per Lamp: 1350 (1 lamp)
Luminaire Lumens: 1194.4 lumens
Efficiency: 88.5%
Efficacy: 68.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.55 / 1.46
Luminous Opening: Rectangular (W 0.5' x L: 2' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 17.5
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			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	100	100	100	100	94	94	94	94	85	85	85	76	76	76	68	68	68	64
1	90	85	81	77	85	81	77	74	72	70	67	65	63	61	58	56	55	51
2	81	74	68	63	77	70	65	60	63	59	55	57	53	50	51	48	46	43
3	74	65	58	52	70	62	56	50	56	51	46	50	46	43	45	42	39	36
4	68	58	50	44	64	55	48	43	50	44	40	45	40	37	40	37	34	31
5	63	52	44	38	59	49	42	37	45	39	34	40	36	32	36	33	29	27
6	58	46	39	33	55	44	37	32	40	34	30	37	32	28	33	29	26	24
7	54	42	35	29	51	40	33	28	37	31	27	33	28	25	30	26	23	21
8	50	38	31	26	47	37	30	25	34	28	24	31	26	22	28	24	21	19
9	46	35	28	23	44	34	27	23	31	25	21	28	23	20	26	22	19	17
10	43	32	25	21	41	31	25	20	28	23	19	26	21	18	24	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2906	2906	2906
5°	2939	2939	2928
10°	2940	2984	3039
15°	2942	3076	3198
20°	2932	3196	3402
25°	2922	3325	3575
30°	2896	3418	3691
35°	2851	3482	3758
40°	2754	3457	3625
45°	2603	3181	3197
50°	2277	2713	2730
55°	1802	2365	2458
60°	1442	2303	2303
65°	1172	2318	2394
70°	1039	2455	2801
75°	1081	2828	3785
80°	1178	3657	6261
85°	1235	6175	14326



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	26.0	2.2	1.9	0°	270	270	270	270	270	
10°-20°	78.2	6.5	5.8	5°	272	272	272	272	271	26
20°-30°	127.5	10.7	9.4	15°	264	267	276	284	287	74
30°-40°	160.7	13.5	11.9	25°	246	258	280	296	301	113
40°-50°	153.6	12.9	11.4	35°	217	235	265	282	286	135
50°-60°	109.9	9.2	8.1	45°	171	193	209	211	210	130
60°-70°	81.0	6.8	6.0	55°	96	112	126	131	131	88
70°-80°	67.3	5.6	5.0	65°	46	65	91	97	94	47
80°-90°	63.6	5.3	4.7	75°	26	44	68	83	91	27
90°-100°	78.4	6.6	5.8	85°	10	27	50	90	116	10
100°-110°	80.5	6.7	6.0	90°	0	20	46	110	135	1
110°-120°	72.0	6.0	5.3	95°	0	20	63	133	152	0
120°-130°	55.9	4.7	4.1	105°	1	27	89	121	132	1
130°-140°	25.2	2.1	1.9	115°	2	31	80	113	124	2
140°-150°	8.8	0.7	0.7	125°	3	27	65	101	111	3
150°-160°	4.3	0.4	0.3	135°	3	12	31	52	61	2
160°-170°	1.5	0.1	0.1	145°	2	8	14	19	21	1
170°-180°	0.2	0.0	0.0	155°	2	5	10	14	15	1
0°-30°	231.7	19.4	17.2	165°	2	2	5	7	8	1
0°-40°	392.3	32.8	29.1	175°	2	1	1	1	2	0
0°-60°	655.8	54.9	48.6	180°	1	1	1	1	1	
0°-90°	867.7	72.6	64.3							
90°-120°	230.9	19.3	17.1							
90°-150°	320.8	26.9	23.8							
90°-180°	327.0	27.4	24.2							
0°-180°	1194.4	100.0	88.5							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	270	270	270	270	270
2.5°	272	272	271	270	270
5°	272	272	272	272	271
7.5°	271	271	272	274	274
10°	269	270	273	277	278
12.5°	267	268	275	280	282
15°	264	267	276	284	287
17.5°	260	265	278	288	292
20°	256	263	279	293	297
22.5°	251	261	280	295	300
25°	246	258	280	296	301
27.5°	240	253	278	295	299
30°	233	248	275	292	297
32.5°	225	242	271	288	294
35°	217	235	265	282	286
37.5°	207	227	257	271	274
40°	196	218	246	256	258
42.5°	184	207	229	236	236
45°	171	193	209	211	210
47.5°	155	176	186	185	185
50°	136	155	162	162	163
52.5°	115	133	141	144	145
55°	96	112	126	131	131
57.5°	81	96	116	119	118
60°	67	84	107	110	107
62.5°	55	74	99	103	99
65°	46	65	91	97	94
67.5°	38	58	84	92	91
70°	33	52	78	88	89
72.5°	29	48	73	85	90
75°	26	44	68	83	91
77.5°	23	40	63	81	95
80°	19	36	59	80	101
82.5°	15	31	54	83	108
85°	10	27	50	90	116
87.5°	4	23	47	99	125
90°	0	20	46	110	135
92.5°	0	20	53	123	145
95°	0	20	63	133	152
97.5°	0	21	76	138	150
100°	1	22	88	133	143
102.5°	1	23	93	126	136
105°	1	27	89	121	132
107.5°	1	33	84	117	128
110°	2	34	81	115	125



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2	32	80	114	124
115°	2	31	80	113	124
117.5°	3	31	82	114	124
120°	3	31	83	116	127
122.5°	3	30	78	112	122
125°	3	27	65	101	111
127.5°	3	23	56	89	98
130°	3	19	48	76	86
132.5°	3	15	40	63	73
135°	3	12	31	52	61
137.5°	3	10	23	41	48
140°	3	9	18	30	36
142.5°	2	8	16	23	26
145°	2	8	14	19	21
147.5°	2	7	13	18	19
150°	2	6	12	16	18
152.5°	2	6	11	15	16
155°	2	5	10	14	15
157.5°	2	4	9	12	13
160°	2	4	8	11	11
162.5°	2	3	6	9	10
165°	2	2	5	7	8
167.5°	2	2	4	6	6
170°	2	2	3	4	5
172.5°	2	2	2	2	3
175°	2	1	1	1	2
177.5°	2	1	1	1	0
180°	1	1	1	1	1

(END OF REPORT)