

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: P30243

Luminaire Tested: **CR-217A-UNV-EB81**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P30243
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: CR-217A-UNV-EB81
Description: METALUX CR 2FT COMMERCIAL CORRIDOR LUMINAIRE WITH A WHITE
BALLAST COVER, NO REFLECTOR, WRAPAROUND ACRYLIC LENS
Light Source: TWO (2) 17W T8 LAMPS - 1350 LUMENS EA
Ballast/Driver: -
ICN-2P32-N

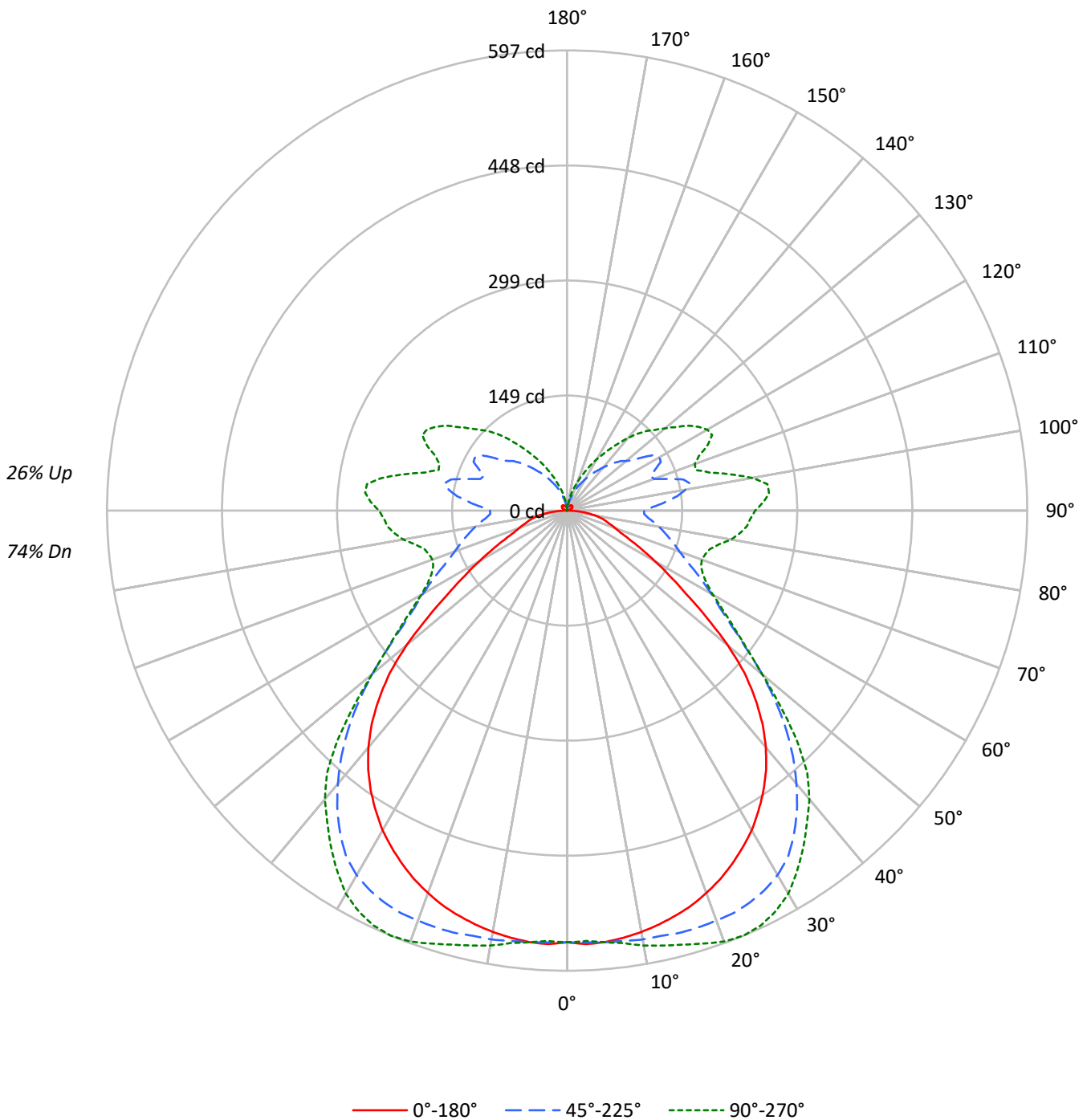
Summary

Lumens per Lamp: 1350 (2 lamps)
Luminaire Lumens: 2347.3 lumens
Efficiency: 86.9%
Efficacy: 74.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.45 / 1.43
Luminous Opening: Rectangular (W 0.5' x L: 2' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 31.6
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	50	30	10	0	
RCR																						
0	98	98	98	98	93	93	93	93	84	84	84	76	76	76	68	68	68	64				
1	88	84	80	76	84	80	76	73	72	69	66	64	62	60	58	56	55	51				
2	80	73	67	62	76	69	64	59	63	58	55	56	53	50	51	48	46	43				
3	73	64	57	52	69	61	55	50	55	50	46	50	46	42	45	42	39	36				
4	67	57	49	44	63	54	47	42	49	44	39	45	40	36	40	37	34	31				
5	62	51	43	38	58	49	42	36	44	38	34	40	35	32	36	32	29	27				
6	57	46	38	33	54	44	37	32	40	34	30	36	32	28	33	29	26	24				
7	53	41	34	29	50	40	33	28	36	31	26	33	28	25	30	26	23	21				
8	49	38	31	26	46	36	30	25	33	28	24	30	26	22	28	24	21	19				
9	46	35	28	23	43	33	27	22	31	25	21	28	23	20	26	22	19	17				
10	43	32	25	21	41	31	24	20	28	23	19	26	21	18	24	20	17	15				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6028	6028	6028
5°	6072	6072	6072
10°	6066	6175	6263
15°	6062	6318	6497
20°	6048	6483	6816
25°	6010	6663	7055
30°	5954	6786	7134
35°	5834	6741	7017
40°	5635	6506	6871
45°	5252	6119	6409
50°	4555	5526	5526
55°	3528	4879	4954
60°	2842	4650	4693
65°	2292	4610	4941
70°	2077	4878	5854
75°	2163	5698	7985
80°	2294	7500	13389
85°	2347	12968	28899



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	53.8	2.3	2.0	0°	560	560	560	560	560	
10°-20°	160.2	6.8	5.9	5°	562	563	562	563	562	53
20°-30°	256.1	10.9	9.5	15°	544	552	567	580	583	154
30°-40°	312.6	13.3	11.6	25°	506	526	561	587	594	233
40°-50°	301.9	12.9	11.2	35°	444	472	513	530	534	277
50°-60°	222.0	9.5	8.2	45°	345	374	402	422	421	264
60°-70°	163.4	7.0	6.1	55°	188	223	260	265	264	173
70°-80°	137.3	5.9	5.1	65°	90	132	181	197	194	92
80°-90°	129.8	5.5	4.8	75°	52	87	137	169	192	55
90°-100°	143.4	6.1	5.3	85°	19	53	105	191	234	19
100°-110°	129.6	5.5	4.8	90°	0	41	100	210	244	1
110°-120°	114.8	4.9	4.3	95°	0	41	128	233	263	0
120°-130°	99.7	4.2	3.7	105°	3	51	156	184	191	3
130°-140°	65.0	2.8	2.4	115°	6	50	126	183	201	6
140°-150°	36.4	1.6	1.3	125°	8	50	121	176	192	7
150°-160°	16.0	0.7	0.6	135°	8	39	88	130	146	7
160°-170°	4.6	0.2	0.2	145°	8	28	60	89	98	5
170°-180°	0.5	0.0	0.0	155°	7	16	36	52	57	3
0°-30°	470.0	20.0	17.4	165°	5	7	15	24	26	2
0°-40°	782.7	33.3	29.0	175°	4	4	3	4	6	0
0°-60°	1306.6	55.7	48.4	180°	2	2	2	2	2	
0°-90°	1737.1	74.0	64.3							
90°-120°	387.8	16.5	14.4							
90°-150°	588.9	25.1	21.8							
90°-180°	610.0	26.0	22.6							
0°-180°	2347.3	100.0	86.9							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	560	560	560	560	560
2.5°	563	563	561	560	559
5°	562	563	562	563	562
7.5°	559	561	563	567	566
10°	555	559	565	572	573
12.5°	550	555	565	575	578
15°	544	552	567	580	583
17.5°	537	547	567	584	589
20°	528	542	566	588	595
22.5°	518	535	565	590	597
25°	506	526	561	587	594
27.5°	493	516	555	582	586
30°	479	504	546	570	574
32.5°	462	489	533	552	555
35°	444	472	513	530	534
37.5°	424	453	490	507	511
40°	401	431	463	483	489
42.5°	375	404	434	457	461
45°	345	374	402	422	421
47.5°	312	340	367	378	375
50°	272	303	330	334	330
52.5°	228	263	292	295	293
55°	188	223	260	265	264
57.5°	158	193	235	241	239
60°	132	170	216	222	218
62.5°	109	150	198	208	204
65°	90	132	181	197	194
67.5°	75	116	166	187	188
70°	66	105	155	180	186
72.5°	58	96	146	175	188
75°	52	87	137	169	192
77.5°	45	79	129	166	202
80°	37	71	121	167	216
82.5°	28	62	113	178	226
85°	19	53	105	191	234
87.5°	7	46	100	201	238
90°	0	41	100	210	244
92.5°	0	40	112	220	255
95°	0	41	128	233	263
97.5°	1	42	144	239	262
100°	1	43	156	232	244
102.5°	2	45	163	211	217
105°	3	51	156	184	191
107.5°	3	60	136	164	175
110°	4	62	120	161	176



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	5	54	117	168	185
115°	6	50	126	183	201
117.5°	7	52	137	194	212
120°	8	54	138	193	210
122.5°	8	52	134	185	202
125°	8	50	121	176	192
127.5°	8	48	107	163	178
130°	9	46	100	152	166
132.5°	9	43	95	141	155
135°	8	39	88	130	146
137.5°	9	36	80	121	135
140°	8	33	73	110	123
142.5°	8	31	66	99	110
145°	8	28	60	89	98
147.5°	7	25	53	79	87
150°	7	21	47	70	77
152.5°	7	18	41	61	67
155°	7	16	36	52	57
157.5°	6	13	31	44	48
160°	6	10	25	36	39
162.5°	6	9	20	30	32
165°	5	7	15	24	26
167.5°	5	6	11	17	19
170°	4	5	7	12	14
172.5°	4	4	5	7	9
175°	4	4	3	4	6
177.5°	4	4	3	2	0
180°	2	2	2	2	2

(END OF REPORT)