

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: 141P100

Luminaire Tested: **CR-140A**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 141P100
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: CR-140A
Description: Corlite Corridor Luminaire
Light Source: One-F40CW - 3150 Lumens - 40 Watts
Ballast/Driver: -

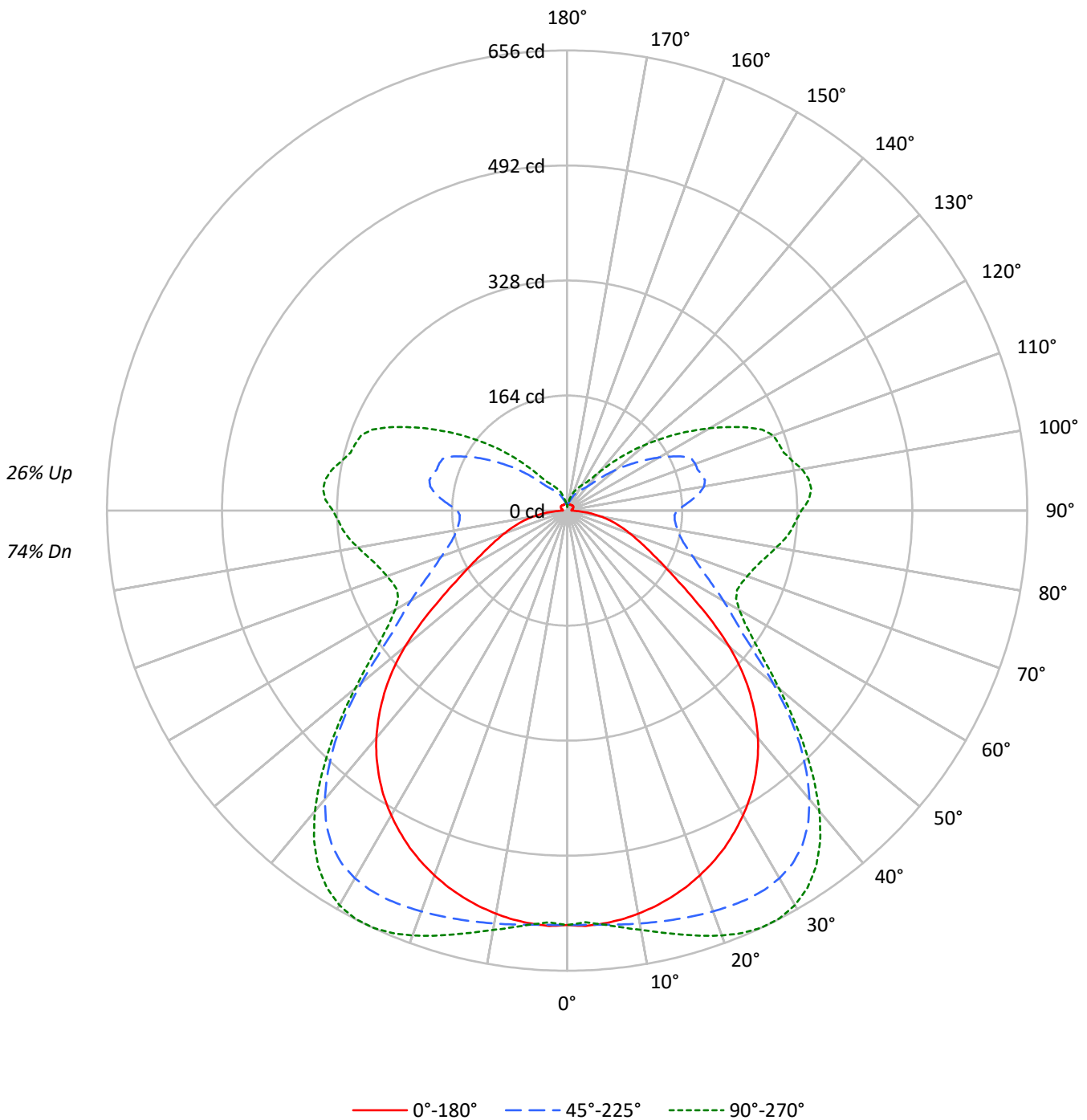
Summary

Lumens per Lamp: 3150 (1 lamp)
Luminaire Lumens: 2777.3 lumens
Efficiency: 88.2%
Efficacy: 56.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.54 / 1.48
Luminous Opening: Rectangular w/ Sides (W: 0.48' x L: 4' x H: 0.25')
CIE Type: Semi-Direct

Input Watts (W): 49.5
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	
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	94	94	94	94	85	85	85	76	76	76	69	69	69	65
1	89	84	80	76	84	80	76	72	72	69	66	64	62	60	57	56	54	50
2	80	73	66	61	76	69	63	59	62	58	54	56	52	49	50	47	45	41
3	73	64	56	51	69	61	54	49	55	49	45	49	45	41	44	41	38	35
4	67	56	49	43	63	54	47	41	49	43	38	44	39	35	39	35	32	30
5	62	50	42	37	58	48	41	35	44	38	33	39	34	30	35	31	28	26
6	57	45	37	32	54	43	36	31	39	33	29	36	31	27	32	28	25	22
7	53	41	33	28	50	39	32	27	36	30	25	32	27	24	29	25	22	20
8	49	37	30	25	46	36	29	24	33	27	23	30	25	21	27	23	20	18
9	46	34	27	22	43	33	26	22	30	24	20	27	22	19	25	21	18	16
10	43	31	24	20	40	30	24	19	28	22	18	25	20	17	23	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3317	3317	3317
5°	3313	3225	3193
10°	3292	3177	3170
15°	3265	3157	3190
20°	3233	3159	3237
25°	3194	3172	3269
30°	3140	3169	3237
35°	3065	3105	3108
40°	2948	2925	2852
45°	2758	2632	2503
50°	2455	2243	2124
55°	1990	1877	1827
60°	1635	1685	1670
65°	1441	1533	1676
70°	1334	1465	1844
75°	1258	1458	2098
80°	1165	1547	2473
85°	925	1734	2968



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	56.7	2.0	1.8	0°	591	591	591	591	591	
10°-20°	170.5	6.1	5.4	5°	591	592	593	595	592	56
20°-30°	278.0	10.0	8.8	15°	571	582	603	622	626	161
30°-40°	351.3	12.6	11.2	25°	530	560	611	648	656	244
40°-50°	344.4	12.4	10.9	35°	467	517	584	615	619	291
50°-60°	266.3	9.6	8.5	45°	369	423	468	481	480	283
60°-70°	208.2	7.5	6.6	55°	221	270	305	325	326	201
70°-80°	184.9	6.7	5.9	65°	123	161	218	255	267	124
80°-90°	181.5	6.5	5.8	75°	72	102	171	242	285	76
90°-100°	194.5	7.0	6.2	85°	25	65	154	272	321	25
100°-110°	191.9	6.9	6.1	90°	6	53	157	288	334	4
110°-120°	162.0	5.8	5.1	95°	6	54	179	309	349	5
120°-130°	100.2	3.6	3.2	105°	8	70	199	290	320	8
130°-140°	48.8	1.8	1.5	115°	10	79	182	255	281	10
140°-150°	21.7	0.8	0.7	125°	11	54	119	171	190	10
150°-160°	11.2	0.4	0.4	135°	10	30	63	94	107	8
160°-170°	4.4	0.2	0.1	145°	10	21	36	47	50	6
170°-180°	0.9	0.0	0.0	155°	10	15	26	33	35	4
0°-30°	505.3	18.2	16.0	165°	10	12	14	18	21	3
0°-40°	856.5	30.8	27.2	175°	10	10	9	8	9	1
0°-60°	1467.2	52.8	46.6	180°	8	8	8	8	8	
0°-90°	2041.8	73.5	64.8							
90°-120°	548.4	19.7	17.4							
90°-150°	719.1	25.9	22.8							
90°-180°	736.0	26.5	23.4							
0°-180°	2777.3	100.0	88.2							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	590.7	590.7	590.7	590.7	590.7
2.5°	592.8	592.3	591.1	591.5	587.4
5°	591.0	591.6	592.7	595.4	592.3
7.5°	588.1	590.3	595.0	600.8	599.3
10°	583.6	588.2	597.8	607.3	607.0
12.5°	578.0	585.5	600.3	614.5	615.9
15°	571.0	582.1	603.1	622.3	625.5
17.5°	562.9	577.9	605.8	630.3	635.5
20°	553.3	572.9	608.1	637.8	644.6
22.5°	542.6	566.8	609.8	644.3	651.9
25°	530.5	559.7	610.6	648.0	655.9
27.5°	516.6	551.5	609.6	647.7	655.5
30°	501.7	542.1	605.3	643.1	649.6
32.5°	485.3	530.8	597.3	632.5	637.6
35°	466.7	517.0	583.9	615.0	618.9
37.5°	446.2	499.4	564.1	590.3	592.7
40°	423.3	477.8	537.4	558.7	559.4
42.5°	397.2	452.5	505.1	521.4	520.7
45°	369.0	423.4	468.3	480.6	479.6
47.5°	337.7	389.8	427.4	437.4	436.6
50°	301.9	351.4	383.2	393.0	394.3
52.5°	261.4	309.4	340.1	354.5	356.6
55°	221.4	269.6	304.9	325.2	325.6
57.5°	187.9	235.3	279.6	301.6	300.8
60°	161.3	206.5	257.4	282.0	283.1
62.5°	140.3	182.5	236.2	266.8	271.7
65°	123.0	161.4	217.6	255.4	267.3
67.5°	108.0	143.6	202.7	248.2	269.3
70°	95.2	127.9	190.5	244.1	273.3
72.5°	83.1	114.1	179.6	241.6	278.3
75°	71.5	101.8	170.8	242.2	285.0
77.5°	60.5	90.8	164.4	246.8	293.5
80°	48.8	81.0	159.9	254.3	302.7
82.5°	36.8	72.6	156.4	263.3	312.7
85°	24.6	65.2	154.0	272.4	320.7
87.5°	13.5	57.7	153.2	279.9	326.5
90°	6.0	52.6	156.7	288.1	334.0
92.5°	5.9	52.0	166.9	300.2	344.8
95°	6.2	53.8	178.8	309.4	349.3
97.5°	6.5	56.3	190.0	311.5	347.1
100°	6.9	60.1	198.3	307.8	339.9
102.5°	7.3	65.0	201.2	299.1	328.6
105°	7.8	70.5	198.6	289.8	319.6
107.5°	8.4	75.1	194.9	285.8	316.5
110°	8.9	77.2	194.4	283.8	312.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	9.3	78.8	192.3	274.0	301.2
115°	9.7	78.7	182.2	255.3	280.8
117.5°	10.1	74.8	166.9	233.5	257.6
120°	10.4	68.4	151.3	212.4	235.2
122.5°	10.6	61.2	134.8	191.2	211.6
125°	10.7	54.0	119.3	170.6	189.7
127.5°	10.7	46.8	104.3	149.7	167.2
130°	10.6	40.0	90.0	130.4	146.7
132.5°	10.4	33.9	76.2	112.2	126.5
135°	10.2	29.5	63.1	94.2	107.0
137.5°	10.1	27.2	52.2	77.4	88.3
140°	10.0	25.0	44.8	62.8	71.6
142.5°	9.9	23.0	40.0	52.4	58.1
145°	9.7	21.0	36.4	46.7	50.0
147.5°	9.6	19.0	33.2	42.8	45.4
150°	9.5	17.6	30.2	39.5	41.6
152.5°	9.4	16.3	28.2	36.4	38.2
155°	9.6	15.0	25.5	33.0	35.0
157.5°	9.6	13.8	22.6	29.7	31.4
160°	9.7	12.8	19.1	26.3	29.0
162.5°	9.8	12.1	16.5	22.3	25.0
165°	9.9	11.6	14.3	17.7	21.0
167.5°	10.0	11.2	12.2	14.3	16.9
170°	10.1	10.7	10.8	11.4	13.6
172.5°	10.1	10.3	10.0	9.5	10.7
175°	10.2	9.9	9.2	8.2	8.7
177.5°	10.2	9.6	8.5	7.2	5.6
180°	8.1	8.1	8.1	8.1	8.1

(END OF REPORT)