

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: 138P103

Luminaire Tested: **SNL-117**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 138P103
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: SNL-117
Description: Staggered Narrow Striplight
Light Source: One FO17/35K - 1300 Lumens - 17 Watts
Ballast/Driver: Advance REL-2P32-RH-TP Electronic

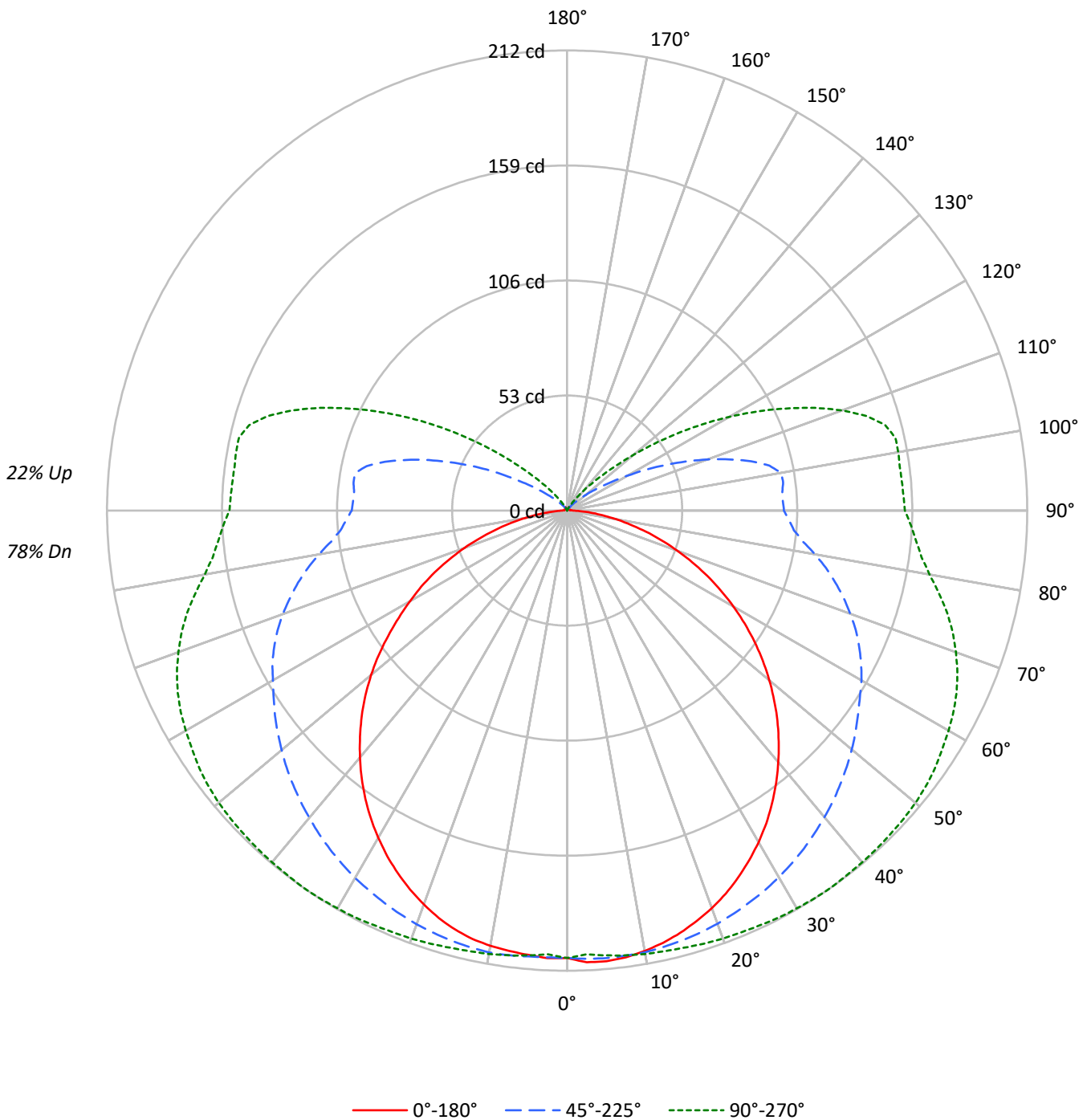
Summary

Lumens per Lamp: 1300 (1 lamp)
Luminaire Lumens: 1207.5 lumens
Efficiency: 92.9%
Efficacy: 50.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.57 / 1.6
Luminous Opening: Rectangular w/ Sides (W: 0.24' x L: 2' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 24
Input Voltage (V): NR
Input Current (A_{in}): 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	106	106	106	106	101	101	101	101	92	92	92	84	84	84	76	76	76	72
1	93	87	82	77	88	83	78	74	75	71	68	68	65	62	61	59	56	53
2	83	74	66	60	78	70	63	57	63	58	53	57	53	49	51	48	45	41
3	75	64	55	48	71	60	53	46	55	48	43	49	44	39	44	40	36	33
4	68	56	47	40	64	53	45	38	48	41	36	43	38	33	39	34	30	27
5	62	49	40	33	59	47	39	32	43	35	30	38	33	28	35	30	26	23
6	57	44	35	29	54	42	34	28	38	31	26	35	29	24	31	26	22	20
7	53	39	31	25	50	38	30	24	34	28	23	31	25	21	28	23	19	17
8	49	36	28	22	46	34	27	21	31	25	20	29	23	19	26	21	17	15
9	46	33	25	19	43	31	24	19	29	22	18	26	21	17	24	19	15	13
10	43	30	22	17	40	29	22	17	26	20	16	24	19	15	22	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	4629	4629	4629
5°	4673	4436	4608
10°	4647	4332	4593
15°	4606	4254	4570
20°	4555	4215	4513
25°	4491	4200	4441
30°	4416	4218	4356
35°	4324	4258	4259
40°	4215	4313	4137
45°	4096	4398	4000
50°	3955	4514	3834
55°	3789	4643	3620
60°	3587	4788	3393
65°	3337	4967	3154
70°	3027	5144	2825
75°	2646	5336	2400
80°	2177	5539	1872
85°	1624	5974	1248



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	19.7	1.6	1.5	0°	206	206	206	206	206	
10°-20°	58.0	4.8	4.5	5°	208	207	206	206	206	20
20°-30°	91.8	7.6	7.1	15°	201	205	208	205	200	57
30°-40°	118.5	9.8	9.1	25°	186	199	211	199	184	86
40°-50°	136.0	11.3	10.5	35°	165	190	212	190	162	103
50°-60°	143.3	11.9	11.0	45°	137	178	211	179	134	106
60°-70°	140.6	11.6	10.8	55°	105	164	207	164	101	94
70°-80°	126.5	10.5	9.7	65°	71	148	198	149	67	70
80°-90°	106.5	8.8	8.2	75°	38	128	181	128	34	40
90°-100°	98.2	8.1	7.6	85°	11	105	161	105	8	11
100°-110°	83.8	6.9	6.4	90°	3	100	156	99	2	2
110°-120°	51.3	4.3	3.9	95°	2	100	155	98	1	1
120°-130°	23.3	1.9	1.8	105°	1	88	152	87	1	1
130°-140°	7.6	0.6	0.6	115°	1	49	111	49	1	1
140°-150°	1.9	0.2	0.1	125°	1	19	62	18	1	1
150°-160°	0.5	0.0	0.0	135°	1	6	23	6	1	1
160°-170°	0.0	0.0	0.0	145°	1	2	6	2	2	1
170°-180°	0.0	0.0	0.0	155°	2	1	1	1	2	1
0°-30°	169.5	14.0	13.0	165°	0	0	0	0	0	0
0°-40°	288.0	23.9	22.2	175°	0	0	0	0	0	0
0°-60°	567.3	47.0	43.6	180°	0	0	0	0	0	
0°-90°	940.9	77.9	72.4							
90°-120°	233.2	19.3	17.9							
90°-150°	266.0	22.0	20.5							
90°-180°	267.0	22.1	20.5							
0°-180°	1207.5	100.0	92.9							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	206.1	206.1	206.1	206.1	206.1	206.1	206.1	206.1	206.1
2.5°	208.3	207.5	206.7	205.6	204.6	205.2	206.0	206.4	206.4
5°	208.4	207.2	207.0	206.3	205.7	206.0	206.2	206.1	205.5
7.5°	207.6	206.4	206.8	206.9	206.7	206.9	206.6	205.9	204.6
10°	206.0	205.4	206.6	207.4	207.4	207.5	206.7	205.3	203.6
12.5°	204.0	203.9	205.9	207.5	207.9	207.7	206.1	204.1	202.1
15°	201.4	201.9	205.0	207.7	208.5	207.9	205.2	202.0	199.8
17.5°	198.3	199.5	203.9	207.8	209.2	208.0	204.1	199.6	196.8
20°	194.9	196.6	202.5	207.8	209.8	208.1	202.8	196.8	193.1
22.5°	191.0	193.3	200.9	207.7	210.2	208.1	201.2	193.6	189.0
25°	186.5	189.7	199.1	207.6	210.7	207.8	199.4	190.0	184.4
27.5°	181.6	185.8	197.2	207.4	211.3	207.6	197.4	186.1	179.5
30°	176.4	181.6	195.0	207.1	211.6	207.5	195.4	181.9	174.0
32.5°	170.8	177.0	192.7	206.7	211.9	206.9	193.0	177.3	168.3
35°	164.6	172.0	190.1	206.1	212.0	206.4	190.5	172.3	162.1
37.5°	158.2	166.8	187.3	205.2	211.7	205.6	187.8	167.1	155.5
40°	151.3	161.3	184.4	204.2	211.5	204.5	184.8	161.7	148.5
42.5°	144.3	155.6	181.4	203.1	211.2	203.4	181.8	156.0	141.3
45°	137.0	150.0	178.1	201.9	210.7	202.2	178.6	150.2	133.8
47.5°	129.4	144.0	174.7	200.6	210.2	200.9	175.3	144.4	126.1
50°	121.6	137.9	171.2	199.2	209.5	199.4	171.7	138.3	117.9
52.5°	113.6	131.7	167.5	197.5	208.4	197.8	168.1	132.1	109.5
55°	105.4	125.3	163.6	195.5	206.9	195.8	164.4	125.8	100.7
57.5°	97.0	119.0	159.9	193.0	204.8	193.1	160.3	119.3	92.0
60°	88.5	113.1	156.6	190.9	202.9	190.7	156.5	113.1	83.7
62.5°	79.9	106.8	152.7	188.1	200.7	188.3	153.1	107.2	75.7
65°	71.2	100.6	148.5	184.9	198.0	185.1	149.0	101.2	67.3
67.5°	62.5	94.4	143.9	181.2	194.6	181.4	144.4	95.0	58.8
70°	54.0	88.3	138.8	176.9	190.6	177.1	139.4	88.8	50.4
72.5°	45.6	82.0	133.5	172.3	186.2	172.4	133.9	82.6	42.0
75°	37.6	75.6	127.9	167.2	181.2	167.2	128.3	76.1	34.1
77.5°	29.9	68.9	122.1	161.5	175.4	161.4	122.4	69.6	26.5
80°	22.8	62.1	115.9	155.2	169.5	155.2	116.1	62.7	19.6
82.5°	16.4	55.8	109.6	149.9	164.7	149.9	109.7	56.1	13.5
85°	10.8	50.1	104.9	146.4	161.4	146.3	104.8	50.0	8.3
87.5°	5.6	46.0	102.3	143.8	158.6	143.4	101.9	45.6	4.0
90°	3.0	44.2	99.9	141.0	155.6	140.6	99.3	43.4	2.5
92.5°	2.1	43.8	99.5	140.5	155.1	140.0	98.7	42.8	1.8
95°	1.6	44.4	99.5	140.3	154.8	139.6	98.5	43.5	1.4
97.5°	1.4	41.5	100.4	140.4	154.6	139.6	99.3	40.8	1.3
100°	1.3	35.1	100.1	141.0	154.9	140.2	99.3	34.4	1.2
102.5°	1.2	28.4	95.5	140.5	154.9	139.8	94.6	27.7	1.2
105°	1.2	21.9	87.7	135.9	151.8	135.2	86.9	21.3	1.1
107.5°	1.1	16.3	78.5	127.7	144.7	127.0	77.6	15.5	1.1
110°	1.1	11.8	68.8	117.7	134.9	116.9	68.0	10.9	1.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	1.1	8.5	59.0	106.4	123.6	105.6	58.2	7.8	1.1
115°	1.1	6.3	49.4	94.5	111.3	93.7	48.7	5.6	1.1
117.5°	1.1	4.2	40.4	82.9	98.9	82.2	39.8	4.0	1.1
120°	1.1	2.7	32.1	71.3	86.4	70.6	31.3	3.0	1.1
122.5°	1.2	2.3	25.1	59.9	74.0	59.3	24.1	2.3	1.2
125°	1.2	1.9	19.4	49.0	61.9	48.2	18.5	1.8	1.2
127.5°	1.2	1.7	14.9	38.9	50.3	38.0	14.0	1.5	1.2
130°	1.3	1.5	11.3	30.4	39.7	29.5	10.5	1.4	1.3
132.5°	1.3	1.3	8.3	23.4	30.6	22.6	7.8	1.3	1.3
135°	1.3	1.3	6.1	17.7	23.3	17.1	5.6	1.3	1.4
137.5°	1.4	1.3	4.5	13.1	17.4	12.6	4.1	1.3	1.4
140°	1.4	1.3	3.3	9.4	12.7	9.0	2.9	1.3	1.5
142.5°	1.4	1.3	2.4	6.6	8.8	6.2	2.1	1.3	1.5
145°	1.4	1.3	1.9	4.5	5.9	4.2	1.7	1.3	1.5
147.5°	1.5	1.4	1.5	3.0	3.8	2.7	1.4	1.4	1.6
150°	1.5	1.4	1.2	1.9	2.3	1.8	1.2	1.4	1.6
152.5°	1.6	1.5	1.1	1.3	1.3	1.2	1.1	1.4	1.7
155°	1.6	1.5	1.1	0.9	0.7	0.8	1.1	1.5	1.7
157.5°	1.7	1.5	1.1	0.6	0.3	0.6	1.1	1.5	1.7
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)