

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: 122P104

Luminaire Tested: **SN-217**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 122P104
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: SN-217
Description: SN Series Commercial Narrow Striplite
Light Source: Two - FO17/35K - 1300 Lumens - 17 Watts ea.
Ballast/Driver: Advance REL-2P32-RH-TP Electronic

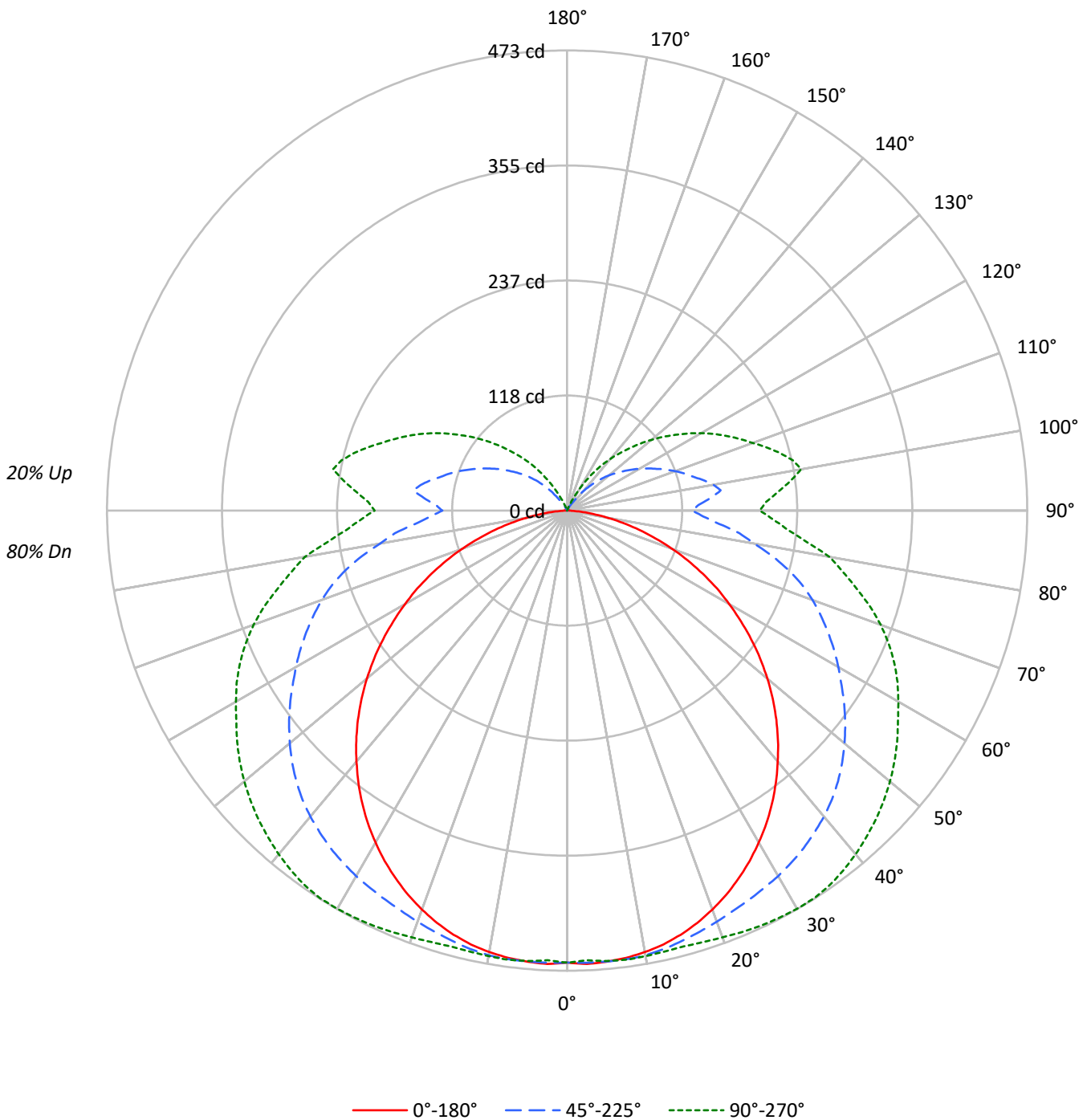
Summary

Lumens per Lamp: 1300 (2 lamps)
Luminaire Lumens: 2383.7 lumens
Efficiency: 91.7%
Efficacy: 67.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.54 / 1.57
Luminous Opening: Rectangular w/ Sides (W: 0.24' x L: 2' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 35.2
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

TEST NUMBER: 122P104
CATALOG NUMBER: SN-217

Luminous Intensity Polar Plot





TEST NUMBER: 122P104
 CATALOG NUMBER: SN-217

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	105	105	105	105	100	100	100	100	92	92	92	84	84	84	77	77	77	73
1	93	87	83	78	88	84	79	75	76	73	69	69	67	64	63	61	59	56
2	83	75	67	61	79	71	65	59	65	60	55	59	55	51	54	50	47	44
3	75	65	56	50	71	62	54	48	56	50	45	51	46	42	47	42	39	36
4	68	57	48	41	65	54	46	40	49	43	37	45	40	35	41	36	33	30
5	63	50	41	35	59	48	40	34	44	37	32	40	34	30	37	32	28	25
6	58	45	36	30	55	43	35	29	39	33	27	36	30	26	33	28	24	22
7	53	40	32	26	50	39	31	25	36	29	24	33	27	23	30	25	21	19
8	49	37	29	23	47	35	28	22	32	26	21	30	24	20	27	22	19	17
9	46	33	26	20	44	32	25	20	30	23	19	27	22	18	25	20	17	15
10	43	31	23	18	41	30	23	18	27	21	17	25	20	16	23	19	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10436	10436	10436
5°	10441	10126	10021
10°	10396	9869	9713
15°	10322	9585	9463
20°	10200	9345	9378
25°	10045	9177	9385
30°	9863	9085	9420
35°	9650	9012	9444
40°	9386	8941	9406
45°	9092	8850	9369
50°	8739	8716	9335
55°	8309	8567	9295
60°	7807	8427	9277
65°	7218	8337	9312
70°	6429	8250	9255
75°	5405	8041	9053
80°	4011	7554	8943
85°	2060	7058	8424



TEST NUMBER: 122P104
 CATALOG NUMBER: SN-217

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	44.3	1.9	1.7	0°	465	465	465	465	465	
10°-20°	129.5	5.4	5.0	5°	466	465	465	465	465	44
20°-30°	204.6	8.6	7.9	15°	451	453	458	462	464	127
30°-40°	263.2	11.0	10.1	25°	417	423	442	463	471	192
40°-50°	296.6	12.4	11.4	35°	367	381	424	458	470	230
50°-60°	300.9	12.6	11.6	45°	304	332	394	434	449	234
60°-70°	279.1	11.7	10.7	55°	231	278	348	397	414	207
70°-80°	229.9	9.6	8.8	65°	154	218	296	352	371	152
80°-90°	158.6	6.7	6.1	75°	77	155	236	288	307	82
90°-100°	141.7	5.9	5.4	85°	14	83	157	209	228	17
100°-110°	131.8	5.5	5.1	90°	1	58	128	180	198	1
110°-120°	95.1	4.0	3.7	95°	1	70	148	199	217	1
120°-130°	60.9	2.6	2.3	105°	1	47	134	203	227	1
130°-140°	32.9	1.4	1.3	115°	1	30	102	160	182	1
140°-150°	12.6	0.5	0.5	125°	1	12	71	118	136	1
150°-160°	2.1	0.1	0.1	135°	2	3	42	78	91	1
160°-170°	0.0	0.0	0.0	145°	2	2	12	38	48	1
170°-180°	0.0	0.0	0.0	155°	2	2	2	6	9	1
0°-30°	378.4	15.9	14.6	165°	0	0	0	0	0	0
0°-40°	641.6	26.9	24.7	175°	0	0	0	0	0	0
0°-60°	1239.0	52.0	47.7	180°	0	0	0	0	0	0
0°-90°	1906.6	80.0	73.3							
90°-120°	368.6	15.5	14.2							
90°-150°	474.9	19.9	18.3							
90°-180°	477.0	20.0	18.3							
0°-180°	2383.7	100.0	91.7							



TEST NUMBER: 122P104
 CATALOG NUMBER: SN-217

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	464.6	464.6	464.6	464.6	464.6
2.5°	466.5	465.4	465.2	463.5	462.7
5°	465.6	464.6	465.3	464.9	464.7
7.5°	463.7	463.2	465.2	465.6	465.7
10°	460.8	461.3	464.2	464.8	465.0
12.5°	456.8	457.9	461.5	463.2	464.1
15°	451.3	453.3	457.8	461.8	463.8
17.5°	444.5	447.3	453.8	461.1	464.9
20°	436.4	440.2	449.7	461.4	466.8
22.5°	427.4	432.0	445.4	462.1	469.1
25°	417.1	423.0	441.6	462.6	470.8
27.5°	406.1	413.4	437.7	462.6	471.9
30°	394.0	403.1	433.8	461.9	472.6
32.5°	381.2	392.2	429.1	460.6	472.4
35°	367.3	380.6	423.7	458.4	470.2
37.5°	352.5	368.7	417.4	454.1	466.3
40°	336.9	356.5	410.6	448.3	461.2
42.5°	320.9	344.3	402.9	441.6	455.3
45°	304.1	331.8	393.7	434.3	448.8
47.5°	286.7	319.1	383.5	426.3	441.4
50°	268.7	305.9	372.2	417.2	433.2
52.5°	250.2	291.9	360.3	407.3	424.1
55°	231.1	277.6	347.8	396.7	414.2
57.5°	211.8	263.1	334.5	385.2	403.2
60°	192.6	248.7	321.8	374.4	393.1
62.5°	173.6	233.8	309.2	363.5	382.9
65°	154.0	218.1	295.8	351.8	371.2
67.5°	134.2	202.4	282.3	338.6	357.8
70°	114.7	186.8	268.2	323.5	342.9
72.5°	95.5	171.0	253.0	307.0	326.1
75°	76.8	155.3	235.5	288.4	307.4
77.5°	58.8	139.9	216.0	269.6	290.2
80°	42.0	123.6	195.2	253.4	273.7
82.5°	26.7	103.4	178.5	230.5	248.7
85°	13.7	83.2	156.7	209.0	227.6
87.5°	4.4	67.5	140.0	193.2	212.1
90°	1.1	58.2	128.3	179.7	198.0
92.5°	1.1	64.6	135.2	186.5	204.7
95°	1.0	69.8	147.8	199.0	217.2
97.5°	1.0	63.5	159.3	213.5	231.1
100°	1.0	58.3	152.7	221.6	244.3
102.5°	1.0	52.4	143.7	213.3	237.8
105°	1.0	47.0	134.2	202.7	227.2
107.5°	1.0	42.3	126.7	191.2	215.5
110°	1.0	37.8	118.4	180.4	203.1



TEST NUMBER: 122P104
 CATALOG NUMBER: SN-217

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.0	33.6	109.9	170.8	192.1
115°	1.0	29.6	101.5	160.1	181.5
117.5°	1.0	25.8	93.6	149.8	170.4
120°	1.1	21.2	86.0	139.3	159.1
122.5°	1.1	16.9	78.3	128.7	147.5
125°	1.2	12.2	70.6	118.0	135.7
127.5°	1.2	8.2	63.3	107.6	124.4
130°	1.3	5.8	56.2	97.6	113.1
132.5°	1.4	4.0	49.2	87.5	101.8
135°	1.5	2.8	41.7	77.5	90.8
137.5°	1.6	2.0	33.5	67.9	79.9
140°	1.6	1.5	26.4	58.4	69.5
142.5°	1.8	1.6	18.6	48.5	59.2
145°	1.8	1.7	11.7	37.9	48.4
147.5°	1.9	1.7	7.7	28.6	37.1
150°	2.0	1.8	4.5	18.6	26.9
152.5°	2.1	1.9	2.7	10.7	16.4
155°	2.1	1.9	1.6	6.0	8.9
157.5°	2.2	2.0	1.5	2.7	4.1
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)