

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: 122P102

Luminaire Tested: **SN-132**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 122P102
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: SN-132
Description: SN Series Commercial Narrow Striplite
Light Source: F32T8/35K - 2900 Lumens - 32 Watts
Ballast/Driver: Triad-Utrad B2321120RH Electronic

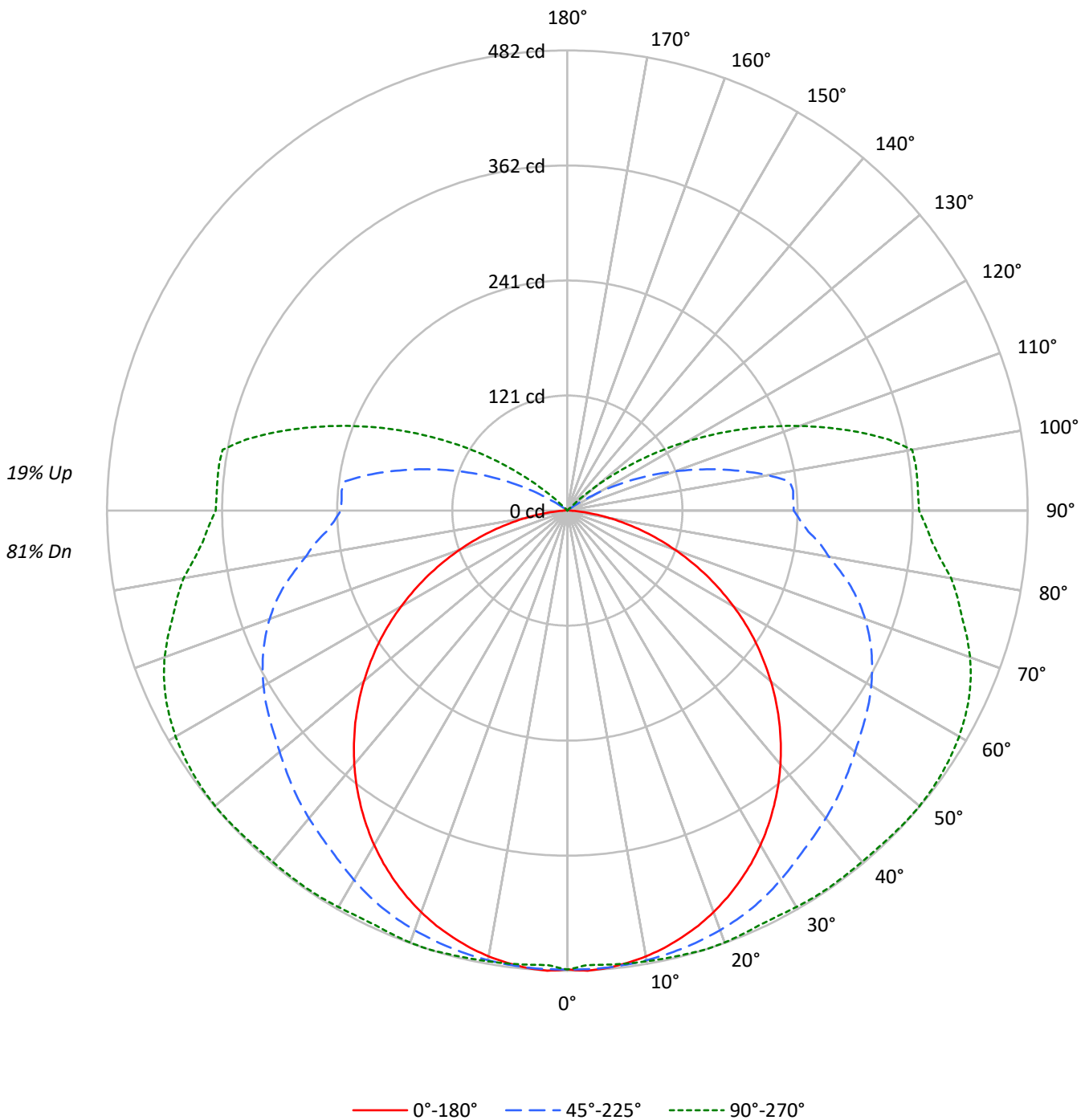
Summary

Lumens per Lamp: 2900 (1 lamp)
Luminaire Lumens: 2707.6 lumens
Efficiency: 93.4%
Efficacy: 71.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.53 / 1.58
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 4' x H: 0.09')
CIE Type: Semi-Direct

Input Watts (W): 37.9
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	107	107	107	107	102	102	102	102	94	94	94	86	86	86	79	79	79	76
1	94	88	82	77	89	84	79	74	76	72	69	69	66	63	63	61	58	55
2	84	74	66	60	79	71	64	58	64	59	54	59	54	50	53	49	46	43
3	75	64	55	48	71	61	53	46	56	49	43	50	45	40	46	41	37	34
4	68	56	47	40	65	53	45	38	49	42	36	44	38	33	40	35	31	28
5	62	49	40	33	59	47	39	32	43	36	30	39	33	28	36	31	26	24
6	57	44	35	29	54	42	34	28	39	31	26	35	29	24	32	27	23	20
7	53	40	31	25	50	38	30	24	35	28	23	32	26	21	29	24	20	18
8	49	36	28	22	47	35	27	21	32	25	20	29	23	19	27	22	18	16
9	46	33	25	19	44	32	24	19	29	23	18	27	21	17	25	20	16	14
10	43	30	22	17	41	29	22	17	27	20	16	25	19	15	23	18	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5644	5644	5644
5°	5656	5515	5432
10°	5630	5410	5330
15°	5591	5325	5269
20°	5545	5258	5235
25°	5483	5204	5205
30°	5412	5148	5257
35°	5320	5109	5354
40°	5217	5133	5477
45°	5094	5182	5664
50°	4943	5264	5910
55°	4767	5420	6189
60°	4540	5639	6508
65°	4251	5896	6867
70°	3867	6188	7252
75°	3358	6510	7673
80°	2644	6872	8309
85°	1594	7587	9097



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	45.8	1.7	1.6	0°	481	481	481	481	481	
10°-20°	134.0	4.9	4.6	5°	481	480	480	481	477	46
20°-30°	210.9	7.8	7.3	15°	463	466	474	482	481	131
30°-40°	271.2	10.0	9.4	25°	428	438	459	476	478	197
40°-50°	311.9	11.5	10.8	35°	377	398	433	470	481	236
50°-60°	332.1	12.3	11.5	45°	314	347	408	462	481	242
60°-70°	330.0	12.2	11.4	55°	241	288	380	454	479	215
70°-80°	301.5	11.1	10.4	65°	161	234	352	435	464	159
80°-90°	254.4	9.4	8.8	75°	80	184	307	396	428	86
90°-100°	229.4	8.5	7.9	85°	15	121	253	349	383	19
100°-110°	167.7	6.2	5.8	90°	2	104	237	334	368	2
110°-120°	87.0	3.2	3.0	95°	2	96	237	334	368	2
120°-130°	29.0	1.1	1.0	105°	2	30	166	277	317	2
130°-140°	2.8	0.1	0.1	115°	2	2	77	166	201	2
140°-150°	0.0	0.0	0.0	125°	2	2	6	65	91	2
150°-160°	0.0	0.0	0.0	135°	3	2	2	1	4	1
160°-170°	0.0	0.0	0.0	145°	0	0	0	0	0	0
170°-180°	0.0	0.0	0.0	155°	0	0	0	0	0	0
0°-30°	390.7	14.4	13.5	165°	0	0	0	0	0	0
0°-40°	661.9	24.4	22.8	175°	0	0	0	0	0	0
0°-60°	1306.0	48.2	45.0	180°	0	0	0	0	0	0
0°-90°	2191.8	81.0	75.6							
90°-120°	484.0	17.9	16.7							
90°-150°	515.8	19.0	17.8							
90°-180°	516.0	19.1	17.8							
0°-180°	2707.6	100.0	93.4							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	480.7	480.7	480.7	480.7	480.7
2.5°	482.5	481.6	480.8	480.7	476.4
5°	480.9	480.4	480.5	481.1	477.4
7.5°	478.0	478.3	479.6	481.6	478.5
10°	474.2	475.1	478.3	481.9	479.3
12.5°	469.2	471.2	476.4	481.9	480.2
15°	462.9	466.4	474.0	482.0	481.0
17.5°	455.9	460.6	471.1	481.9	482.0
20°	447.6	454.0	467.7	480.9	481.4
22.5°	438.3	446.6	463.7	478.7	480.1
25°	427.9	438.4	459.0	475.8	478.5
27.5°	416.8	429.3	453.3	473.2	478.5
30°	404.6	419.5	446.8	472.0	479.4
32.5°	391.3	409.1	439.6	471.3	480.5
35°	377.3	397.9	432.8	470.2	480.6
37.5°	362.6	386.3	426.8	468.3	480.4
40°	347.1	373.8	420.9	466.1	480.1
42.5°	330.8	360.5	414.6	464.0	480.1
45°	314.0	346.6	407.6	461.8	480.7
47.5°	296.3	331.9	400.4	460.6	481.4
50°	278.2	317.0	393.3	459.2	481.4
52.5°	259.5	302.2	386.6	457.1	480.7
55°	240.7	288.3	380.5	454.2	479.1
57.5°	221.1	274.8	374.4	450.6	476.7
60°	201.2	261.0	367.4	446.2	473.6
62.5°	180.9	247.1	359.8	441.1	469.4
65°	160.7	233.7	351.5	434.9	464.1
67.5°	140.4	221.4	342.2	427.4	457.3
70°	119.9	209.8	331.8	418.6	448.8
72.5°	100.0	197.3	320.4	408.2	438.6
75°	80.5	184.0	307.4	396.3	427.5
77.5°	61.9	169.5	292.5	384.7	418.2
80°	44.3	153.9	278.0	374.8	408.1
82.5°	28.4	136.8	267.0	361.4	394.4
85°	15.0	121.4	253.3	348.9	383.4
87.5°	5.6	109.9	244.1	341.3	375.9
90°	2.4	103.5	237.1	333.7	368.2
92.5°	2.3	102.4	236.6	333.7	367.6
95°	2.3	95.7	237.4	333.5	367.9
97.5°	2.2	77.2	234.7	334.2	367.9
100°	2.2	60.1	213.3	327.8	366.5
102.5°	2.2	44.6	189.7	303.8	344.3
105°	2.2	30.4	166.3	276.8	316.7
107.5°	2.2	17.5	143.0	249.0	288.0
110°	2.2	6.5	120.2	221.4	259.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.2	2.2	98.3	193.7	230.1
115°	2.2	2.1	76.9	166.5	201.1
117.5°	2.3	2.1	56.5	139.9	172.4
120°	2.3	2.2	37.5	113.9	144.4
122.5°	2.4	2.2	20.1	89.0	117.2
125°	2.4	2.2	6.0	65.3	90.9
127.5°	2.5	2.3	1.7	42.7	65.6
130°	2.5	2.3	1.7	22.4	42.1
132.5°	2.6	2.4	1.7	5.9	20.9
135°	2.6	2.4	1.8	0.8	4.3
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
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)