

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: 122P101

Luminaire Tested: **SN-140HRS**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 122P101
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: SN-140HRS
Description: SN Series Commercial Narrow Striplite
Light Source: F40CW/RS/WM, 2650 Lumens, 34 Watts
Ballast/Driver: Universal 412-L-SLH-TC-P Electromagnetic

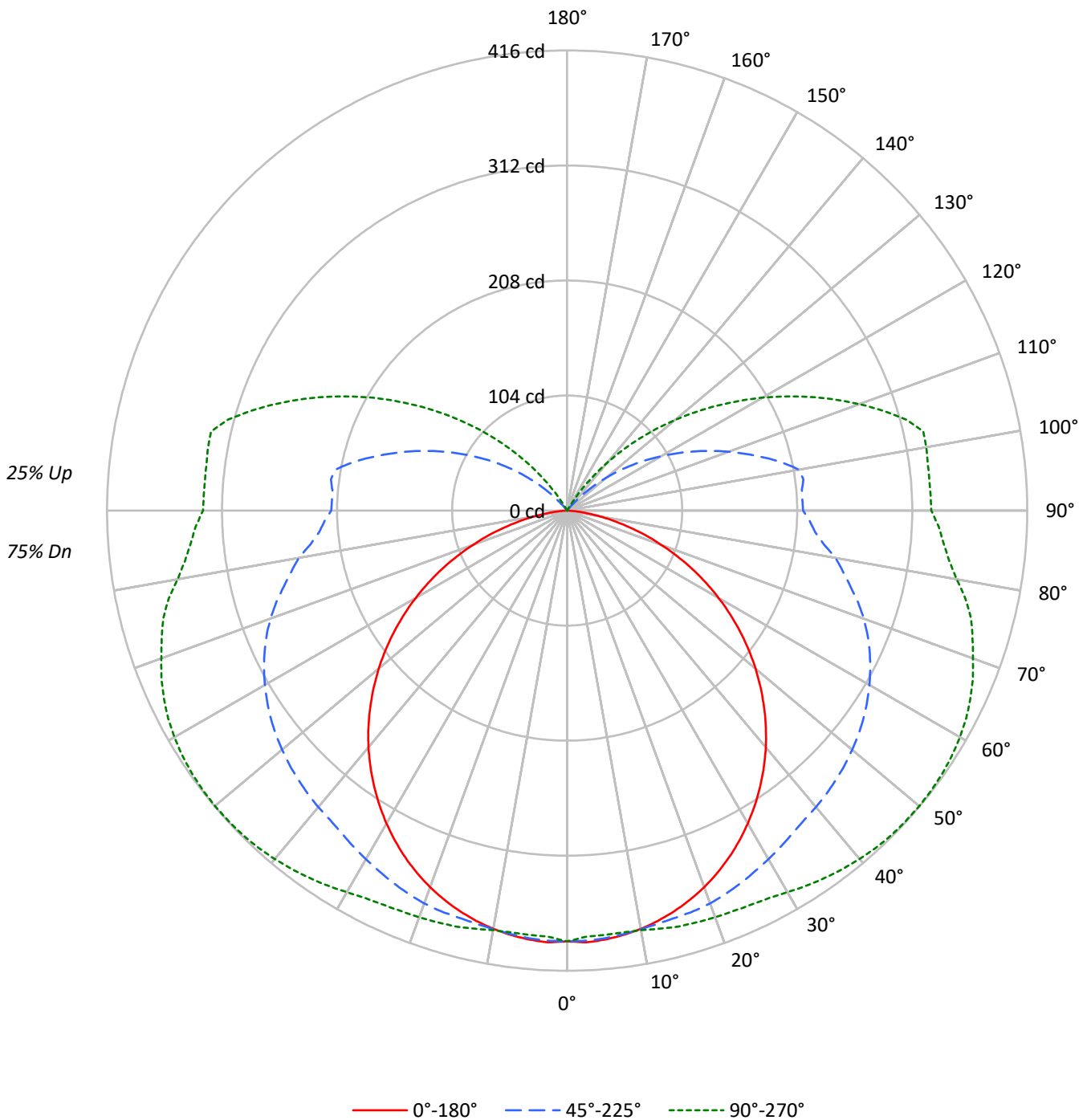
Summary

Lumens per Lamp: 2650 (1 lamp)
Luminaire Lumens: 2455.5 lumens
Efficiency: 92.7%
Efficacy: 58.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.6 / 1.63
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 4' x H: 0.15')
CIE Type: Semi-Direct

Input Watts (W): 41.9
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	105	105	105	105	100	100	100	100	90	90	90	82	82	82	74	74	74	70
1	92	86	81	76	87	81	77	72	73	69	66	66	63	60	59	56	54	50
2	82	73	65	59	77	69	62	56	62	56	51	55	51	47	49	46	42	39
3	74	63	54	47	69	59	52	45	53	47	41	48	42	38	42	38	34	31
4	67	55	46	39	63	52	44	37	47	40	34	42	36	31	37	32	29	26
5	61	48	39	33	58	46	38	31	41	34	29	37	31	27	33	28	24	22
6	56	43	34	28	53	41	33	27	37	30	25	33	27	23	30	25	21	18
7	52	39	30	24	49	37	29	23	33	27	22	30	24	20	27	22	18	16
8	48	35	27	21	45	33	26	21	30	24	19	27	22	18	25	20	16	14
9	45	32	24	19	42	31	23	18	28	21	17	25	20	16	23	18	14	12
10	42	29	22	17	40	28	21	16	26	19	15	23	18	14	21	16	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4572	4572	4572
5°	4575	4392	4299
10°	4549	4226	4129
15°	4513	4105	4042
20°	4467	4025	3969
25°	4409	3939	3928
30°	4336	3871	3949
35°	4253	3826	4022
40°	4155	3834	4109
45°	4034	3870	4209
50°	3891	3922	4317
55°	3716	3989	4441
60°	3494	4062	4581
65°	3211	4151	4726
70°	2830	4246	4879
75°	2328	4335	5083
80°	1653	4506	5246
85°	761	4712	5564



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	36.9	1.5	1.4	0°	389	389	389	389	389	
10°-20°	108.1	4.4	4.1	5°	389	389	388	388	385	37
20°-30°	171.3	7.0	6.5	15°	375	376	381	389	389	106
30°-40°	223.5	9.1	8.4	25°	346	352	372	389	393	159
40°-50°	261.7	10.7	9.9	35°	304	321	356	394	406	190
50°-60°	281.8	11.5	10.6	45°	252	280	344	397	415	194
60°-70°	281.9	11.5	10.6	55°	191	237	327	392	414	171
70°-80°	259.8	10.6	9.8	65°	125	198	302	376	402	123
80°-90°	224.1	9.1	8.5	75°	58	153	265	348	378	62
90°-100°	208.4	8.5	7.9	85°	8	104	225	311	342	11
100°-110°	178.9	7.3	6.8	90°	0	91	213	299	329	0
110°-120°	119.8	4.9	4.5	95°	0	92	213	298	329	0
120°-130°	66.7	2.7	2.5	105°	0	54	185	283	317	0
130°-140°	27.8	1.1	1.0	115°	0	22	126	212	243	0
140°-150°	4.8	0.2	0.2	125°	0	0	72	140	165	0
150°-160°	0.0	0.0	0.0	135°	0	0	22	72	91	0
160°-170°	0.0	0.0	0.0	145°	0	0	0	13	25	0
170°-180°	0.0	0.0	0.0	155°	0	0	0	0	0	0
0°-30°	316.3	12.9	11.9	165°	0	0	0	0	0	0
0°-40°	539.8	22.0	20.4	175°	0	0	0	0	0	0
0°-60°	1083.3	44.1	40.9	180°	0	0	0	0	0	0
0°-90°	1849.1	75.3	69.8							
90°-120°	507.1	20.7	19.1							
90°-150°	606.4	24.7	22.9							
90°-180°	606.0	24.7	22.9							
0°-180°	2455.5	100.0	92.7							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	389.4	389.4	389.4	389.4	389.4
2.5°	390.7	390.5	389.2	388.7	385.6
5°	389.4	389.3	388.2	388.1	385.1
7.5°	387.1	387.2	386.3	386.9	384.6
10°	384.0	384.3	384.2	386.5	385.2
12.5°	379.9	380.4	382.3	387.6	387.2
15°	374.9	375.8	380.8	389.1	389.2
17.5°	369.0	370.4	379.8	389.6	390.2
20°	362.3	364.6	377.9	389.4	391.2
22.5°	354.6	358.4	375.0	389.1	392.0
25°	346.1	351.9	371.5	388.8	393.2
27.5°	336.8	345.2	367.7	388.7	394.9
30°	326.6	338.0	363.9	389.4	398.3
32.5°	315.9	329.9	359.9	391.5	402.2
35°	304.3	321.1	355.8	393.5	405.6
37.5°	292.1	311.4	352.3	395.0	408.6
40°	279.4	301.4	350.0	396.1	411.2
42.5°	266.0	290.8	347.1	397.0	413.4
45°	251.8	279.9	343.9	397.1	414.7
47.5°	237.3	269.1	340.4	396.5	415.3
50°	222.3	258.1	336.4	395.4	415.5
52.5°	206.8	247.1	332.1	393.7	415.2
55°	191.0	237.0	327.2	391.5	414.1
57.5°	174.7	227.5	321.6	388.7	412.4
60°	158.2	217.8	315.5	385.3	410.0
62.5°	141.5	207.8	309.0	381.1	406.7
65°	124.6	197.7	301.8	375.9	402.2
67.5°	107.5	187.3	294.1	369.9	397.0
70°	90.7	176.3	285.3	362.8	390.5
72.5°	74.3	164.8	275.7	355.2	384.3
75°	58.3	152.7	265.2	348.3	378.1
77.5°	43.3	140.2	255.5	339.8	369.0
80°	29.5	127.1	246.4	328.2	357.5
82.5°	17.7	114.6	234.1	318.3	348.4
85°	8.0	104.3	225.1	311.1	341.6
87.5°	1.4	96.1	219.5	305.7	336.2
90°	0.0	91.3	213.3	298.9	329.2
92.5°	0.0	90.6	212.8	298.6	328.8
95°	0.0	92.2	213.0	298.3	328.7
97.5°	0.0	83.6	215.5	298.9	328.7
100°	0.0	73.2	212.8	300.4	329.7
102.5°	0.0	63.5	199.7	297.4	329.8
105°	0.0	54.2	184.9	282.6	317.4
107.5°	0.0	45.7	170.1	265.4	299.8
110°	0.0	37.4	155.6	247.6	281.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	29.4	141.0	229.7	262.1
115°	0.0	21.6	126.4	211.6	243.0
117.5°	0.0	14.2	112.3	193.3	223.5
120°	0.0	7.5	98.5	175.2	204.2
122.5°	0.0	1.9	85.0	157.3	184.4
125°	0.0	0.0	71.8	139.7	165.2
127.5°	0.0	0.0	58.7	122.2	146.3
130°	0.0	0.0	46.1	105.1	127.4
132.5°	0.0	0.0	34.0	88.4	109.2
135°	0.0	0.0	22.5	72.0	91.2
137.5°	0.0	0.0	11.8	56.3	73.7
140°	0.0	0.0	2.7	41.0	56.7
142.5°	0.0	0.0	0.0	26.5	40.3
145°	0.0	0.0	0.0	13.2	25.1
147.5°	0.0	0.0	0.0	2.2	11.1
150°	0.0	0.0	0.0	0.0	0.5
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)