

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: METALUX

Report Number: P566001

Luminaire Tested: **4SNX-104HL-LC-UNV-L850-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566001  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2205-663-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNX-104HL-LC-UNV-L850-CD  
Description: 4FT 10400 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LC LENS  
Light Source: -  
Ballast/Driver: -

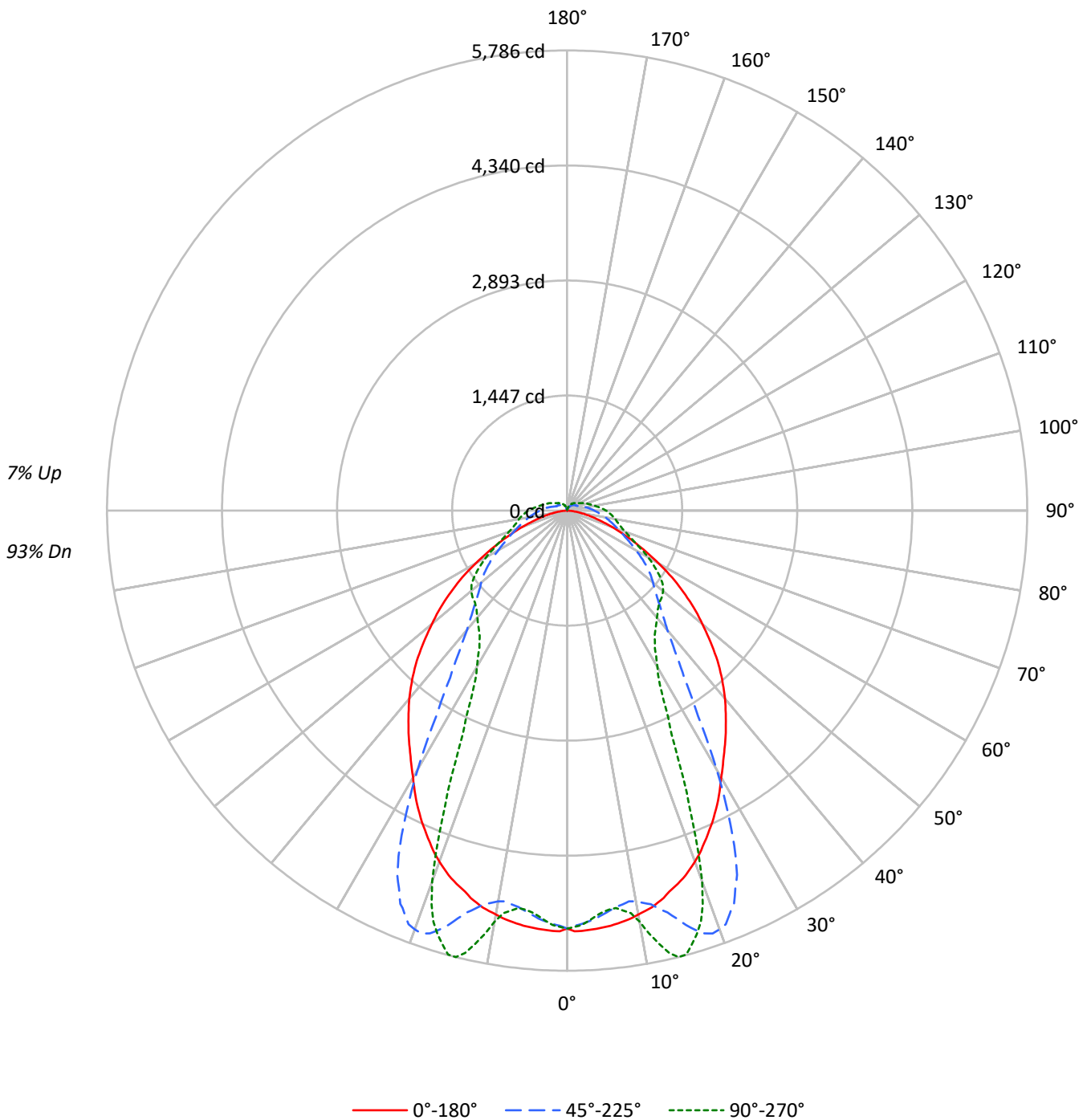
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11679.0 lumens  
Efficiency: N/A  
Efficacy: 154.7 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 0.89 / 1.01  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 75.5  
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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93
1	107	103	99	95	104	100	96	93	94	91	89	89	87	85	85	83	81	78
2	99	91	84	79	95	88	83	78	84	79	75	80	76	72	76	72	69	67
3	91	81	73	67	88	79	72	66	75	69	64	71	66	62	68	64	60	58
4	84	73	64	58	81	71	63	57	68	61	56	64	59	54	62	57	53	51
5	78	66	57	51	75	64	56	51	61	55	49	59	53	48	56	51	47	45
6	72	60	51	45	70	58	51	45	56	49	44	54	48	43	52	46	42	40
7	67	55	46	41	65	54	46	40	51	45	40	49	43	39	48	42	38	36
8	63	50	42	37	61	49	42	36	47	41	36	46	40	35	44	39	35	33
9	59	46	39	34	57	46	38	33	44	37	33	42	36	32	41	36	32	30
10	56	43	36	31	54	42	35	30	41	34	30	40	34	30	38	33	29	27

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	56564	56564	56564
5°	56631	52790	51776
10°	55954	50126	51342
15°	54651	52138	54657
20°	52997	54299	45744
25°	50336	48672	28127
30°	47029	36222	20356
35°	44327	24981	17172
40°	41907	19370	15826
45°	39087	16476	14967
50°	35417	14772	14693
55°	31553	13344	13593
60°	26602	11532	11758
65°	21470	10029	9814
70°	16667	8999	8641
75°	12709	8349	8058
80°	8674	7886	7976
85°	4476	7498	7920



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	489.0	4.2
10°-20°	1494.2	12.8
20°-30°	2011.9	17.2
30°-40°	1904.1	16.3
40°-50°	1680.6	14.4
50°-60°	1365.0	11.7
60°-70°	928.4	7.9
70°-80°	597.4	5.1
80°-90°	397.2	3.4
90°-100°	273.0	2.3
100°-110°	183.2	1.6
110°-120°	129.2	1.1
120°-130°	92.3	0.8
130°-140°	65.1	0.6
140°-150°	40.5	0.3
150°-160°	19.7	0.2
160°-170°	6.9	0.1
170°-180°	1.2	0.0
0°-30°	3995.1	34.2
0°-40°	5899.2	50.5
0°-60°	8944.8	76.6
0°-90°	10867.7	93.1
90°-120°	585.5	5.0
90°-150°	783.4	6.7
90°-180°	811.0	6.9
0°-180°	11679.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5255	5255	5255	5255	5255	
5°	5260	5212	5100	5096	5071	499
15°	4959	4927	5307	5776	5781	1398
25°	4321	5123	5055	3672	3104	1983
35°	3472	4872	2568	1978	1917	2173
45°	2675	3277	1624	1605	1639	2054
55°	1781	1938	1220	1362	1414	1591
65°	918	1045	817	908	936	922
75°	353	494	576	646	676	384
85°	54	210	408	517	553	70
90°	2	146	341	458	489	3
95°	2	112	287	389	416	1
105°	4	78	189	266	298	4
115°	4	68	139	198	223	4
125°	5	57	120	150	160	5
135°	7	45	98	125	132	5
145°	7	32	70	96	105	5
155°	9	20	43	64	73	4
165°	9	12	23	32	39	3
175°	11	11	11	11	9	1
180°	9	9	9	9	9	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5255.0	5255.0	5255.0	5255.0	5255.0
1°	5290.6	5274.6	5221.1	5249.6	5235.4
2°	5288.9	5262.1	5201.5	5233.6	5215.7
3°	5279.9	5251.4	5172.9	5192.6	5165.8
4°	5271.0	5237.1	5142.6	5142.6	5112.3
5°	5260.3	5212.2	5099.8	5096.3	5071.3
6°	5247.8	5192.6	5062.4	5058.8	5044.6
7°	5230.0	5158.7	5021.4	5046.3	5035.6
8°	5208.6	5126.6	5000.0	5062.4	5078.4
9°	5189.0	5087.4	4975.0	5112.3	5124.8
10°	5156.9	5051.7	4991.1	5212.2	5249.6
11°	5130.2	5021.4	5026.7	5310.3	5422.6
12°	5103.4	4989.3	5060.6	5433.3	5570.6
13°	5058.8	4964.3	5135.5	5567.0	5707.9
14°	5019.6	4944.7	5208.6	5702.5	5786.4
15°	4959.0	4926.9	5306.7	5775.7	5781.0
16°	4918.0	4914.4	5420.8	5781.0	5681.2
17°	4871.6	4909.0	5513.5	5688.3	5570.6
18°	4819.9	4919.7	5590.2	5572.4	5436.9
19°	4761.0	4930.4	5622.3	5411.9	5237.1
20°	4696.8	4946.5	5604.5	5244.3	4962.5
21°	4632.7	4967.9	5570.6	5067.7	4602.3
22.5°	4513.2	5019.6	5410.1	4572.0	4006.8
23°	4479.3	5030.3	5372.7	4416.9	3851.6
24°	4395.5	5074.9	5201.5	4054.9	3441.5
25°	4320.6	5123.0	5055.3	3671.5	3104.5
26°	4236.8	5158.7	4834.1	3318.5	2897.6
27°	4154.8	5180.1	4582.7	3043.9	2665.8
28°	4060.3	5203.3	4309.9	2806.7	2491.1
29°	3971.1	5206.8	4040.6	2617.7	2353.8
30°	3874.8	5189.0	3757.1	2466.1	2268.2
32.5°	3664.4	5090.9	3063.5	2177.2	2054.2
35°	3471.8	4871.6	2567.8	1977.5	1916.9
37.5°	3277.4	4525.7	2220.0	1852.7	1833.1
40°	3086.7	4115.5	1957.9	1752.8	1756.4
42.5°	2885.2	3692.9	1777.8	1670.8	1686.9
45°	2674.7	3277.4	1624.5	1604.8	1638.7
47.5°	2441.1	2897.6	1503.2	1562.0	1613.8
50°	2220.0	2521.4	1408.7	1521.0	1574.5
52.5°	2009.6	2212.9	1323.1	1451.5	1513.9
55°	1781.4	1938.3	1219.7	1362.3	1414.0
57.5°	1563.8	1690.4	1110.9	1251.8	1298.1
60°	1324.9	1446.1	1000.4	1132.3	1176.9
62.5°	1109.1	1237.5	905.8	1012.8	1048.5
65°	918.3	1044.9	816.7	907.6	936.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	748.9	884.4	743.6	820.3	847.0
70°	590.2	732.9	679.4	748.9	777.5
72.5°	461.8	606.3	625.9	690.1	718.6
75°	353.1	493.9	576.0	645.5	675.8
77.5°	262.1	403.0	529.6	609.8	641.9
80°	173.0	321.0	488.6	577.7	615.2
82.5°	108.8	258.6	447.6	545.6	584.9
85°	53.5	210.4	408.3	517.1	552.8
87.5°	17.8	174.7	372.7	488.6	518.9
90°	1.8	146.2	340.6	458.3	488.6
92.5°	1.8	126.6	313.8	422.6	452.9
95°	1.8	112.3	287.1	388.7	415.5
97.5°	1.8	101.6	262.1	353.1	381.6
100°	1.8	90.9	235.4	319.2	349.5
102.5°	3.6	83.8	212.2	290.7	322.8
105°	3.6	78.5	189.0	265.7	297.8
107.5°	3.6	74.9	169.4	246.1	276.4
110°	3.6	71.3	155.1	228.2	260.3
112.5°	3.6	69.5	146.2	212.2	242.5
115°	3.6	67.8	139.1	197.9	222.9
117.5°	5.3	66.0	133.7	183.7	203.3
120°	5.3	62.4	130.2	171.2	187.2
122.5°	5.3	58.8	124.8	160.5	173.0
125°	5.3	57.1	119.5	149.8	160.5
127.5°	5.3	53.5	114.1	140.9	151.6
130°	7.1	49.9	108.8	133.7	142.7
132.5°	7.1	46.4	103.4	130.2	137.3
135°	7.1	44.6	98.1	124.8	132.0
137.5°	7.1	41.0	92.7	119.5	126.6
140°	7.1	37.4	85.6	112.3	119.5
142.5°	7.1	35.7	78.5	105.2	112.3
145°	7.1	32.1	69.5	96.3	105.2
147.5°	8.9	30.3	62.4	89.2	96.3
150°	8.9	26.7	55.3	82.0	89.2
152.5°	8.9	23.2	48.1	73.1	80.2
155°	8.9	19.6	42.8	64.2	73.1
157.5°	8.9	17.8	37.4	53.5	64.2
160°	8.9	16.0	32.1	46.4	55.3
162.5°	8.9	14.3	28.5	39.2	48.1
165°	8.9	12.5	23.2	32.1	39.2
167.5°	10.7	12.5	19.6	25.0	32.1
170°	10.7	12.5	16.0	19.6	25.0
172.5°	10.7	10.7	12.5	14.3	16.0
175°	10.7	10.7	10.7	10.7	8.9
177.5°	10.7	10.7	10.7	8.9	8.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	8.9	8.9	8.9	8.9	8.9

(END OF REPORT)