

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: P566002

Luminaire Tested: **4SNX-104HL-LC-UNV-L930-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566002  
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-L930-CD  
Description: 4FT 10400 LUMEN, SNX FIXTURE WITH 3000K, 90CRI LEDS AND LC LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

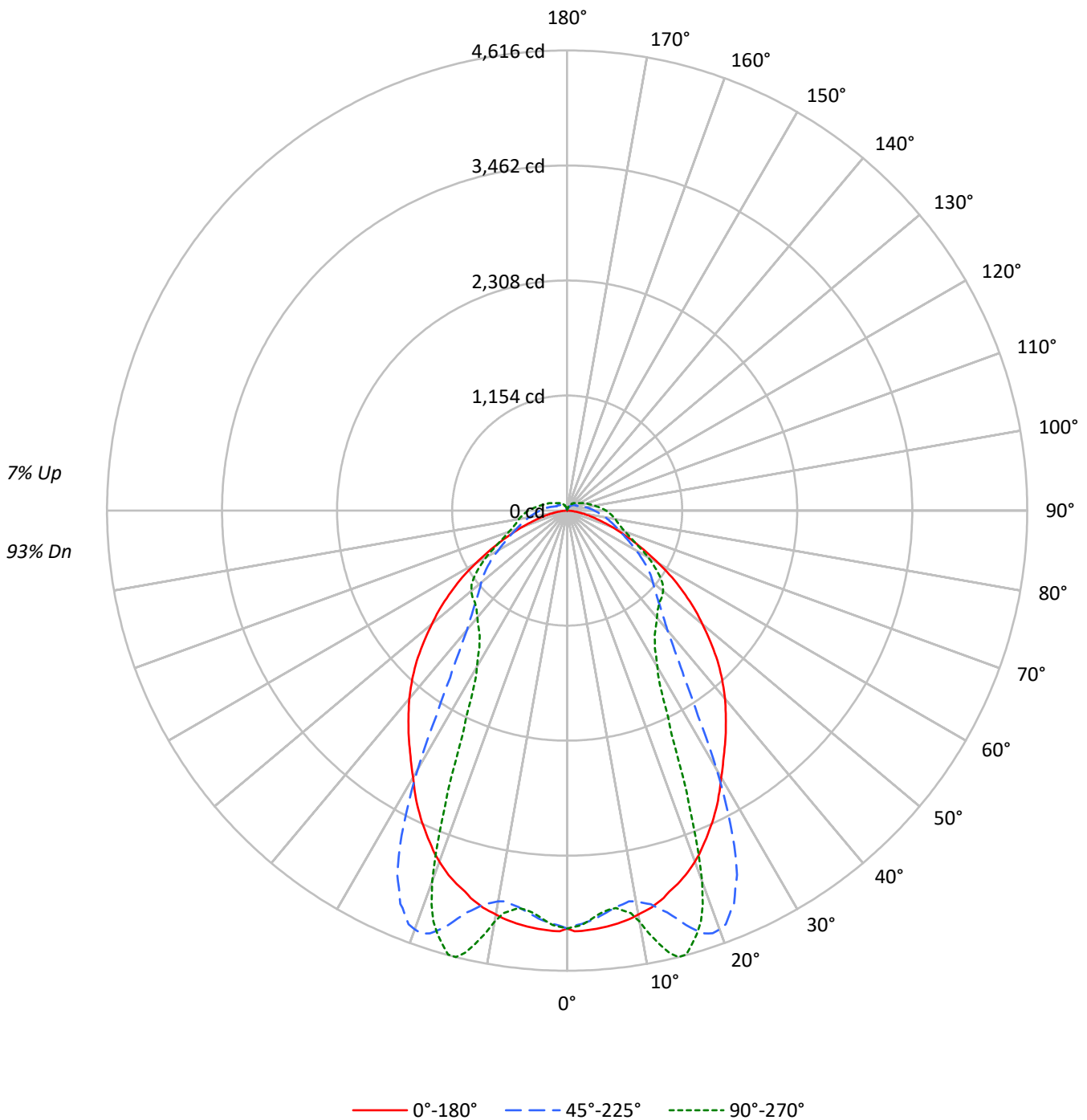
Lumens per Lamp: N/A  
Luminaire Lumens: 9317.0 lumens  
Efficiency: N/A  
Efficacy: 123.4 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 0.89 / 1.01  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')  
CIE Type: Direct

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	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°	45124	45124	45124
5°	45179	42114	41305
10°	44638	39988	40959
15°	43599	41593	43603
20°	42279	43317	36493
25°	40156	38829	22438
30°	37518	28897	16240
35°	35363	19928	13699
40°	33431	15452	12626
45°	31182	13144	11940
50°	28254	11784	11721
55°	25171	10645	10845
60°	21221	9199	9381
65°	17128	8000	7828
70°	13298	7179	6893
75°	10139	6660	6428
80°	6919	6291	6363
85°	3572	5983	6318



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	390.1	4.2
10°-20°	1192.0	12.8
20°-30°	1605.0	17.2
30°-40°	1519.0	16.3
40°-50°	1340.7	14.4
50°-60°	1089.0	11.7
60°-70°	740.6	7.9
70°-80°	476.6	5.1
80°-90°	316.9	3.4
90°-100°	217.8	2.3
100°-110°	146.2	1.6
110°-120°	103.1	1.1
120°-130°	73.7	0.8
130°-140°	52.0	0.6
140°-150°	32.3	0.3
150°-160°	15.7	0.2
160°-170°	5.5	0.1
170°-180°	1.0	0.0
0°-30°	3187.1	34.2
0°-40°	4706.1	50.5
0°-60°	7135.8	76.6
0°-90°	8669.9	93.1
90°-120°	467.1	5.0
90°-150°	625.0	6.7
90°-180°	647.0	6.9
0°-180°	9317.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4192	4192	4192	4192	4192	
5°	4196	4158	4068	4066	4046	398
15°	3956	3930	4233	4608	4612	1115
25°	3447	4087	4033	2929	2477	1582
35°	2770	3886	2048	1578	1529	1733
45°	2134	2615	1296	1280	1307	1638
55°	1421	1546	973	1087	1128	1269
65°	733	834	652	724	747	736
75°	282	394	460	515	539	306
85°	43	168	326	412	441	56
90°	1	117	272	366	390	3
95°	1	90	229	310	331	1
105°	3	63	151	212	238	3
115°	3	54	111	158	178	3
125°	4	46	95	120	128	4
135°	6	36	78	100	105	4
145°	6	26	56	77	84	4
155°	7	16	34	51	58	3
165°	7	10	18	26	31	2
175°	8	8	8	8	7	1
180°	7	7	7	7	7	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4192.2	4192.2	4192.2	4192.2	4192.2
1°	4220.6	4207.8	4165.2	4187.9	4176.5
2°	4219.2	4197.9	4149.5	4175.1	4160.9
3°	4212.1	4189.3	4126.8	4142.4	4121.1
4°	4205.0	4178.0	4102.6	4102.6	4078.4
5°	4196.5	4158.1	4068.4	4065.6	4045.7
6°	4186.5	4142.4	4038.6	4035.7	4024.3
7°	4172.3	4115.4	4005.8	4025.8	4017.2
8°	4155.2	4089.8	3988.8	4038.6	4051.4
9°	4139.6	4058.5	3968.9	4078.4	4088.3
10°	4114.0	4030.0	3981.7	4158.1	4187.9
11°	4092.6	4005.8	4010.1	4236.3	4325.9
12°	4071.3	3980.2	4037.1	4334.4	4444.0
13°	4035.7	3960.3	4096.9	4441.1	4553.5
14°	4004.4	3944.7	4155.2	4549.2	4616.1
15°	3956.1	3930.4	4233.4	4607.6	4611.8
16°	3923.3	3920.5	4324.5	4611.8	4532.2
17°	3886.3	3916.2	4398.5	4537.9	4444.0
18°	3845.1	3924.8	4459.6	4445.4	4337.3
19°	3798.2	3933.3	4485.2	4317.4	4178.0
20°	3746.9	3946.1	4471.0	4183.7	3958.9
21°	3695.7	3963.2	4444.0	4042.8	3671.5
22.5°	3600.4	4004.4	4316.0	3647.4	3196.4
23°	3573.4	4013.0	4286.1	3523.6	3072.7
24°	3506.5	4048.5	4149.5	3234.8	2745.5
25°	3446.8	4086.9	4032.9	2929.0	2476.6
26°	3379.9	4115.4	3856.5	2647.3	2311.6
27°	3314.5	4132.4	3655.9	2428.3	2126.7
28°	3239.1	4150.9	3438.3	2239.1	1987.3
29°	3168.0	4153.8	3223.4	2088.3	1877.7
30°	3091.2	4139.6	2997.3	1967.4	1809.5
32.5°	2923.3	4061.3	2443.9	1736.9	1638.8
35°	2769.7	3886.3	2048.4	1577.6	1529.2
37.5°	2614.6	3610.4	1771.0	1478.0	1462.4
40°	2462.4	3283.2	1561.9	1398.3	1401.2
42.5°	2301.7	2946.1	1418.3	1332.9	1345.7
45°	2133.8	2614.6	1295.9	1280.3	1307.3
47.5°	1947.4	2311.6	1199.2	1246.1	1287.4
50°	1771.0	2011.5	1123.8	1213.4	1256.1
52.5°	1603.2	1765.4	1055.5	1157.9	1207.7
55°	1421.1	1546.3	973.0	1086.8	1128.1
57.5°	1247.6	1348.6	886.2	998.6	1035.6
60°	1056.9	1153.7	798.0	903.3	938.9
62.5°	884.8	987.2	722.6	808.0	836.4
65°	732.6	833.6	651.5	724.1	746.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	597.5	705.6	593.2	654.4	675.7
70°	470.9	584.7	542.0	597.5	620.2
72.5°	368.4	483.7	499.3	550.5	573.3
75°	281.7	394.0	459.5	515.0	539.1
77.5°	209.1	321.5	422.5	486.5	512.1
80°	138.0	256.1	389.8	460.9	490.8
82.5°	86.8	206.3	357.1	435.3	466.6
85°	42.7	167.9	325.8	412.5	441.0
87.5°	14.2	139.4	297.3	389.8	414.0
90°	1.4	116.6	271.7	365.6	389.8
92.5°	1.4	101.0	250.4	337.1	361.3
95°	1.4	89.6	229.0	310.1	331.4
97.5°	1.4	81.1	209.1	281.7	304.4
100°	1.4	72.5	187.8	254.6	278.8
102.5°	2.8	66.9	169.3	231.9	257.5
105°	2.8	62.6	150.8	212.0	237.6
107.5°	2.8	59.7	135.1	196.3	220.5
110°	2.8	56.9	123.8	182.1	207.7
112.5°	2.8	55.5	116.6	169.3	193.5
115°	2.8	54.1	111.0	157.9	177.8
117.5°	4.3	52.6	106.7	146.5	162.2
120°	4.3	49.8	103.8	136.6	149.4
122.5°	4.3	46.9	99.6	128.0	138.0
125°	4.3	45.5	95.3	119.5	128.0
127.5°	4.3	42.7	91.0	112.4	120.9
130°	5.7	39.8	86.8	106.7	113.8
132.5°	5.7	37.0	82.5	103.8	109.5
135°	5.7	35.6	78.2	99.6	105.3
137.5°	5.7	32.7	74.0	95.3	101.0
140°	5.7	29.9	68.3	89.6	95.3
142.5°	5.7	28.5	62.6	83.9	89.6
145°	5.7	25.6	55.5	76.8	83.9
147.5°	7.1	24.2	49.8	71.1	76.8
150°	7.1	21.3	44.1	65.4	71.1
152.5°	7.1	18.5	38.4	58.3	64.0
155°	7.1	15.6	34.1	51.2	58.3
157.5°	7.1	14.2	29.9	42.7	51.2
160°	7.1	12.8	25.6	37.0	44.1
162.5°	7.1	11.4	22.8	31.3	38.4
165°	7.1	10.0	18.5	25.6	31.3
167.5°	8.5	10.0	15.6	19.9	25.6
170°	8.5	10.0	12.8	15.6	19.9
172.5°	8.5	8.5	10.0	11.4	12.8
175°	8.5	8.5	8.5	8.5	7.1
177.5°	8.5	8.5	8.5	7.1	7.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	7.1	7.1	7.1	7.1	7.1

(END OF REPORT)