

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: P566013

Luminaire Tested: **4SNX-104HL-LN-UNV-L950-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566013  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNX-104HL-LN-UNV-L950-CD  
Description: 4FT 10400 LUMEN, SNX FIXTURE WITH 5000K, 90CRI LEDS AND LN LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

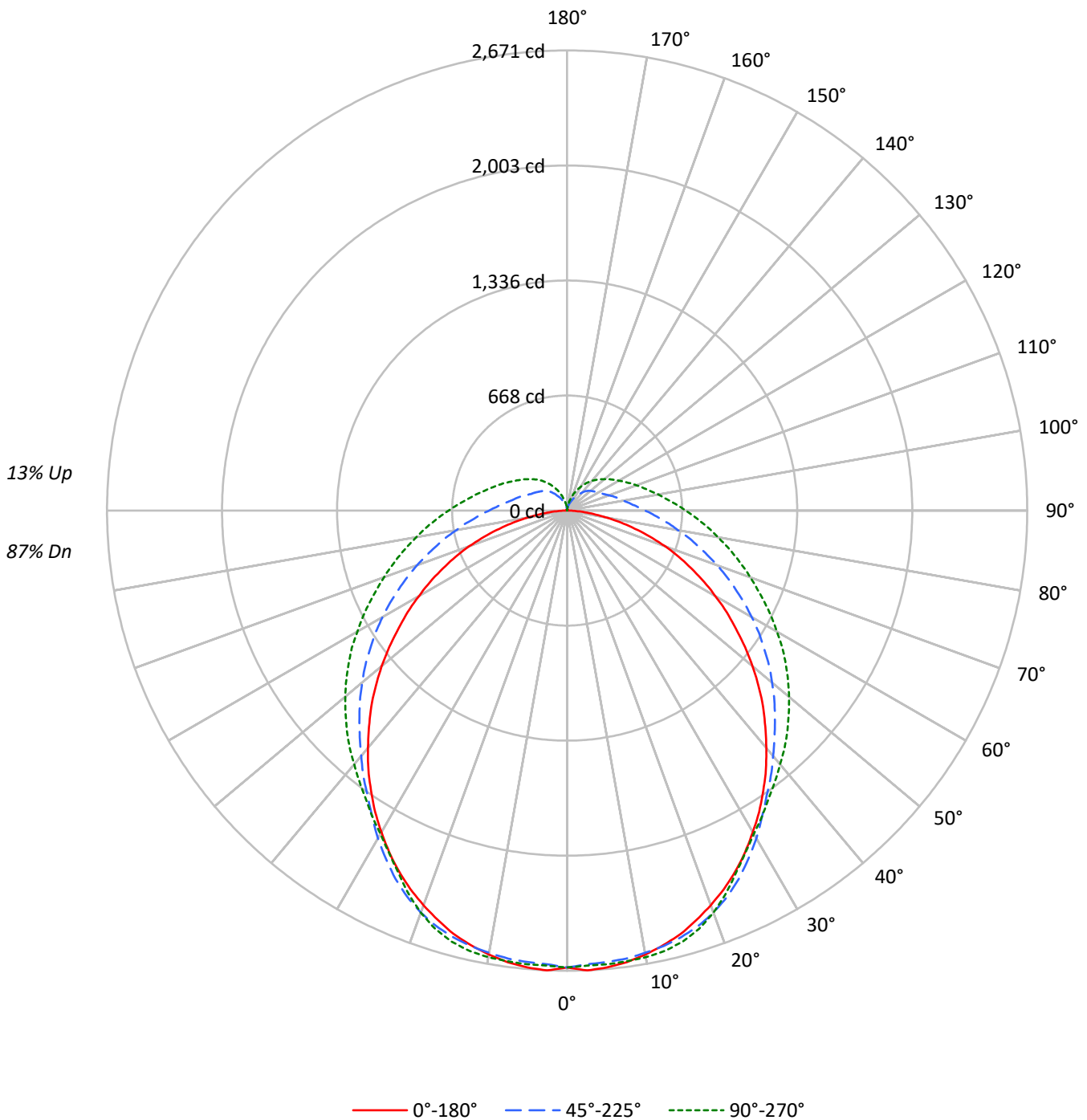
Lumens per Lamp: N/A  
Luminaire Lumens: 9573.0 lumens  
Efficiency: N/A  
Efficacy: 126.8 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 75.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	116	116	116	116	112	112	112	112	104	104	104	96	96	96	90	90	90	87
1	104	98	93	89	100	95	90	86	88	84	81	82	79	76	76	74	72	68
2	94	85	77	71	90	82	75	69	76	70	66	71	66	62	66	62	59	56
3	85	74	65	58	81	71	63	57	66	60	54	62	56	52	58	53	49	46
4	78	65	56	49	74	63	55	48	59	52	46	55	49	44	51	46	42	39
5	71	58	49	42	68	56	48	41	53	45	40	49	43	38	46	41	36	34
6	66	52	43	37	63	51	42	36	47	40	35	44	38	33	42	36	32	29
7	61	47	38	32	58	46	38	32	43	36	30	41	34	29	38	33	28	26
8	57	43	35	29	54	42	34	28	39	32	27	37	31	26	35	29	25	23
9	53	39	31	26	51	38	31	25	36	29	24	34	28	24	32	27	23	21
10	50	36	28	23	48	35	28	23	34	27	22	32	26	21	30	25	21	19

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

	0°	45°	90°
0°	28545	28545	28545
5°	28654	27233	26992
10°	28386	26177	25746
15°	28045	25178	24490
20°	27506	24057	22889
25°	26925	22704	21012
30°	26159	21186	19445
35°	25343	19641	18275
40°	24413	18401	17329
45°	23503	17300	16513
50°	22423	16287	15690
55°	21157	15269	14884
60°	19942	14256	14042
65°	18592	13233	13270
70°	17048	12274	12572
75°	14663	11339	11997
80°	11557	10530	11511
85°	7738	9955	11231



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	251.9	2.6
10°-20°	724.3	7.6
20°-30°	1078.6	11.3
30°-40°	1272.7	13.3
40°-50°	1327.2	13.9
50°-60°	1247.3	13.0
60°-70°	1053.3	11.0
70°-80°	795.9	8.3
80°-90°	548.6	5.7
90°-100°	383.9	4.0
100°-110°	286.5	3.0
110°-120°	216.0	2.3
120°-130°	161.1	1.7
130°-140°	113.1	1.2
140°-150°	68.4	0.7
150°-160°	32.7	0.3
160°-170°	10.5	0.1
170°-180°	1.2	0.0
0°-30°	2054.8	21.5
0°-40°	3327.5	34.8
0°-60°	5902.0	61.7
0°-90°	8299.7	86.7
90°-120°	886.3	9.3
90°-150°	1228.8	12.8
90°-180°	1273.0	13.3
0°-180°	9573.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2652	2652	2652	2652	2652	
5°	2662	2657	2631	2650	2644	253
15°	2545	2556	2563	2595	2590	717
25°	2311	2358	2358	2337	2319	1063
35°	1985	2058	2019	2035	2040	1241
45°	1608	1688	1706	1776	1808	1239
55°	1194	1297	1396	1508	1548	1072
65°	795	922	1078	1219	1266	790
75°	407	565	782	946	1006	434
85°	92	290	542	721	784	104
90°	2	206	453	626	688	6
95°	2	161	383	549	605	1
105°	3	115	295	428	477	3
115°	3	99	229	341	385	3
125°	5	84	193	279	315	4
135°	5	65	161	227	255	4
145°	6	47	112	174	195	4
155°	6	31	68	110	128	3
165°	8	20	36	49	65	2
175°	8	8	10	10	5	1
180°	5	5	5	5	5	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2651.9	2651.9	2651.9	2651.9	2651.9
2.5°	2671.4	2664.9	2635.7	2651.9	2643.8
5°	2661.6	2656.8	2630.8	2650.3	2643.8
7.5°	2643.8	2642.2	2622.7	2645.4	2638.9
10°	2616.2	2621.1	2606.5	2637.3	2632.4
12.5°	2583.7	2593.5	2588.6	2622.7	2617.8
15°	2544.8	2556.1	2562.6	2595.1	2590.2
17.5°	2492.8	2513.9	2528.6	2554.5	2546.4
20°	2437.7	2466.9	2483.1	2496.1	2483.1
22.5°	2377.6	2416.6	2426.3	2419.8	2406.8
25°	2311.1	2358.1	2358.1	2337.0	2319.2
27.5°	2236.4	2294.9	2278.6	2254.3	2239.7
30°	2155.3	2225.1	2197.5	2169.9	2166.6
32.5°	2074.1	2147.2	2106.6	2100.1	2105.0
35°	1984.9	2057.9	2018.9	2035.2	2040.0
37.5°	1895.6	1968.6	1942.7	1967.0	1981.6
40°	1798.2	1876.1	1859.9	1903.7	1923.2
42.5°	1702.5	1783.6	1782.0	1838.8	1868.0
45°	1608.3	1687.9	1705.7	1775.5	1808.0
47.5°	1506.1	1587.2	1631.1	1712.2	1744.7
50°	1405.5	1493.1	1553.2	1644.0	1681.4
52.5°	1301.6	1394.1	1476.9	1577.5	1616.5
55°	1194.5	1296.7	1395.7	1507.7	1548.3
57.5°	1098.7	1202.6	1319.5	1434.7	1481.8
60°	993.2	1108.5	1236.7	1358.4	1405.5
62.5°	897.5	1016.0	1158.8	1287.0	1337.3
65°	795.2	921.8	1077.6	1218.8	1265.9
67.5°	701.1	830.9	1001.4	1144.2	1196.1
70°	603.7	741.7	926.7	1077.6	1131.2
72.5°	503.1	649.2	852.0	1012.7	1067.9
75°	407.4	564.8	782.3	946.2	1006.2
77.5°	318.1	483.6	719.0	887.8	946.2
80°	230.5	410.6	652.4	827.7	887.8
82.5°	152.6	347.3	598.9	774.1	837.4
85°	92.5	290.5	542.1	720.6	783.9
87.5°	42.2	243.4	496.6	673.5	735.2
90°	1.6	206.1	452.8	626.5	688.1
92.5°	1.6	180.1	417.1	585.9	645.9
95°	1.6	160.7	383.0	548.6	605.4
97.5°	1.6	147.7	357.0	512.9	568.0
100°	1.6	134.7	331.1	480.4	537.2
102.5°	3.2	123.3	311.6	451.2	504.7
105°	3.2	115.2	295.4	428.5	477.1
107.5°	3.2	110.4	277.5	405.7	451.2
110°	3.2	105.5	258.0	383.0	428.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	3.2	102.2	243.4	363.5	407.4
115°	3.2	99.0	228.8	340.8	384.6
117.5°	3.2	97.4	220.7	323.0	365.2
120°	4.9	92.5	211.0	306.7	347.3
122.5°	4.9	87.6	201.2	293.8	329.5
125°	4.9	84.4	193.1	279.1	314.9
127.5°	4.9	79.5	185.0	266.2	298.6
130°	4.9	74.7	178.5	253.2	284.0
132.5°	4.9	69.8	170.4	240.2	269.4
135°	4.9	64.9	160.7	227.2	254.8
137.5°	4.9	60.0	150.9	214.2	240.2
140°	4.9	55.2	138.0	201.2	225.6
142.5°	4.9	50.3	125.0	188.3	209.4
145°	6.5	47.1	112.0	173.7	194.8
147.5°	6.5	42.2	99.0	159.0	176.9
150°	6.5	39.0	89.3	144.4	160.7
152.5°	6.5	34.1	79.5	128.2	144.4
155°	6.5	30.8	68.2	110.4	128.2
157.5°	6.5	27.6	58.4	92.5	112.0
160°	6.5	26.0	50.3	76.3	95.8
162.5°	8.1	22.7	42.2	61.7	79.5
165°	8.1	19.5	35.7	48.7	64.9
167.5°	8.1	16.2	29.2	37.3	50.3
170°	8.1	13.0	22.7	26.0	39.0
172.5°	8.1	9.7	16.2	17.9	19.5
175°	8.1	8.1	9.7	9.7	4.9
177.5°	8.1	8.1	6.5	4.9	1.6
180°	4.9	4.9	4.9	4.9	4.9

(END OF REPORT)