

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: P565997

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

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P565997  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNX-104HL-FDL-UNV-L950-CD  
Description: 4FT 10400 LUMEN, SNX FIXTURE WITH 5000K, 90CRI LEDS AND FDL LENS  
Light Source: -  
Ballast/Driver: -

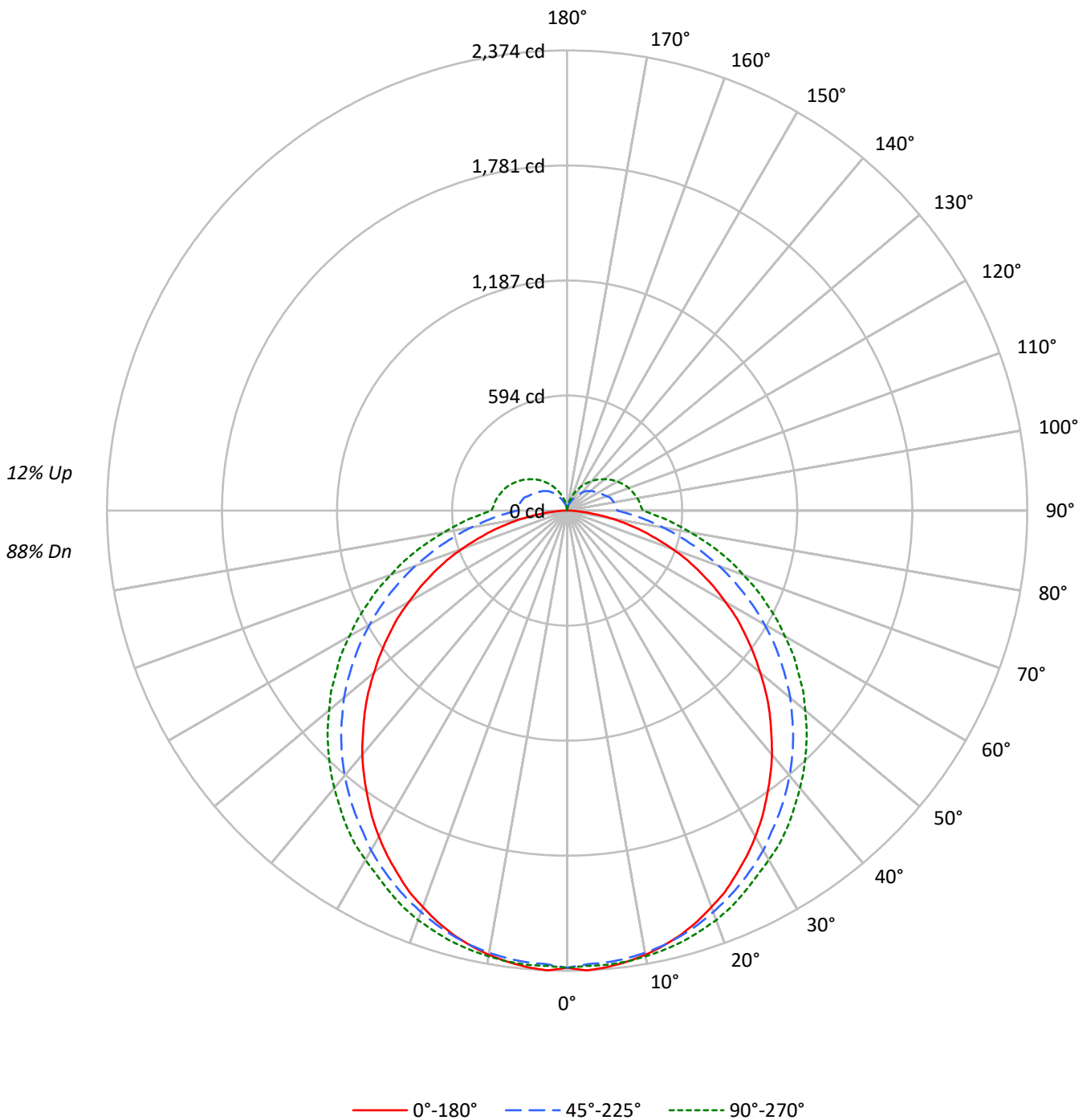
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8491.0 lumens  
Efficiency: N/A  
Efficacy: 112.5 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.04')  
CIE Type: Semi-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

TEST NUMBER: P565997

CATALOG NUMBER: 4SNX-104HL-FDL-UNV-L950-CD

### 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	105	105	105	98	98	98	91	91	91	88
1	105	99	95	90	101	96	92	88	89	86	83	84	81	78	78	76	74	71
2	95	86	79	72	91	83	76	71	77	72	67	72	68	64	68	64	61	58
3	86	75	66	60	82	72	65	58	68	61	56	63	58	53	59	55	51	48
4	78	66	57	50	75	64	56	49	60	53	47	56	50	45	53	48	43	41
5	72	59	50	43	69	57	48	42	54	46	41	50	44	39	47	42	38	35
6	66	53	44	37	64	51	43	37	48	41	35	45	39	34	43	37	33	31
7	61	48	39	33	59	46	38	32	44	36	31	41	35	30	39	33	29	27
8	57	43	35	29	55	42	34	29	40	33	28	38	31	27	36	30	26	24
9	53	40	32	26	51	39	31	26	37	30	25	35	29	24	33	27	23	21
10	50	37	29	23	48	36	28	23	34	27	22	32	26	22	31	25	21	19

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

	0°	45°	90°
0°	25387	25387	25387
5°	25523	25006	25056
10°	25382	24770	24795
15°	25175	24488	24554
20°	24839	24149	24277
25°	24439	23806	23907
30°	24000	23460	23591
35°	23445	23047	23372
40°	22907	22704	23034
45°	22256	22307	22748
50°	21501	21886	22387
55°	20784	21365	22063
60°	19956	20810	21667
65°	18946	20172	21281
70°	17663	19475	20842
75°	15833	18709	20692
80°	13274	18236	20525
85°	9624	18612	21635



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	223.9	2.6
10°-20°	644.1	7.6
20°-30°	979.8	11.5
30°-40°	1191.3	14.0
40°-50°	1260.4	14.8
50°-60°	1181.5	13.9
60°-70°	971.9	11.4
70°-80°	672.5	7.9
80°-90°	374.0	4.4
90°-100°	246.4	2.9
100°-110°	220.9	2.6
110°-120°	182.9	2.2
120°-130°	141.4	1.7
130°-140°	100.1	1.2
140°-150°	60.4	0.7
150°-160°	29.0	0.3
160°-170°	9.5	0.1
170°-180°	1.2	0.0
0°-30°	1847.8	21.8
0°-40°	3039.1	35.8
0°-60°	5481.0	64.6
0°-90°	7499.4	88.3
90°-120°	650.2	7.7
90°-150°	952.0	11.2
90°-180°	992.0	11.7
0°-180°	8491.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2358	2358	2358	2358	2358	
5°	2364	2360	2340	2358	2353	224
15°	2265	2273	2271	2302	2302	639
25°	2068	2097	2122	2168	2169	953
35°	1797	1845	1908	1969	1986	1125
45°	1477	1554	1649	1723	1743	1139
55°	1124	1224	1342	1426	1456	1006
65°	760	870	1005	1104	1134	754
75°	396	510	660	765	807	420
85°	87	217	366	468	509	100
90°	2	122	259	356	391	6
95°	2	116	252	345	378	1
105°	2	100	236	324	353	2
115°	3	87	199	288	320	2
125°	3	74	170	246	276	3
135°	3	58	142	202	227	2
145°	3	42	99	153	172	2
155°	4	29	61	97	113	2
165°	4	19	33	45	58	1
175°	4	7	10	10	6	0
180°	3	3	3	3	3	



TEST NUMBER: P565997

CATALOG NUMBER: 4SNX-104HL-FDL-UNV-L950-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2358.5	2358.5	2358.5	2358.5	2358.5
2.5°	2374.5	2367.2	2342.5	2358.5	2351.2
5°	2364.3	2359.9	2339.6	2358.5	2352.7
7.5°	2348.3	2346.8	2330.8	2352.7	2346.8
10°	2326.5	2329.4	2316.3	2339.6	2335.2
12.5°	2298.9	2303.2	2297.4	2323.6	2320.7
15°	2265.4	2272.7	2271.2	2301.8	2301.8
17.5°	2224.7	2234.9	2240.7	2275.6	2275.6
20°	2176.7	2192.7	2204.3	2242.1	2248.0
22.5°	2128.7	2147.6	2165.1	2204.3	2213.1
25°	2067.7	2096.7	2121.5	2168.0	2169.4
27.5°	2008.0	2040.0	2073.5	2118.6	2122.9
30°	1942.6	1983.3	2024.0	2067.7	2080.7
32.5°	1872.8	1917.9	1963.0	2021.1	2038.6
35°	1797.2	1845.2	1907.7	1968.8	1986.2
37.5°	1721.6	1775.4	1848.1	1910.6	1926.6
40°	1644.5	1704.1	1785.6	1849.6	1868.5
42.5°	1558.7	1631.4	1718.7	1787.0	1808.8
45°	1477.3	1554.4	1648.9	1723.1	1743.4
47.5°	1391.5	1473.0	1574.7	1653.3	1676.5
50°	1299.9	1393.0	1502.0	1580.6	1602.4
52.5°	1214.1	1308.6	1423.5	1504.9	1535.5
55°	1124.0	1224.3	1342.1	1426.4	1455.5
57.5°	1039.6	1135.6	1262.1	1346.5	1382.8
60°	943.7	1049.8	1176.3	1267.9	1297.0
62.5°	853.5	961.1	1092.0	1186.5	1219.9
65°	760.5	869.5	1004.7	1103.6	1134.2
67.5°	673.2	780.8	919.0	1016.4	1055.6
70°	577.3	690.7	831.7	932.0	965.5
72.5°	482.7	600.5	744.5	852.1	889.9
75°	395.5	510.4	660.1	764.8	807.0
77.5°	311.2	427.5	578.7	686.3	722.7
80°	226.8	349.0	503.1	609.2	644.1
82.5°	149.8	277.7	430.4	536.5	574.4
85°	87.2	216.7	366.4	468.2	508.9
87.5°	37.8	164.3	306.8	407.1	440.6
90°	1.5	122.1	258.8	356.2	391.1
92.5°	1.5	119.2	253.0	349.0	382.4
95°	1.5	116.3	251.6	344.6	378.1
97.5°	1.5	114.9	248.6	341.7	373.7
100°	1.5	110.5	244.3	335.9	367.9
102.5°	1.5	104.7	239.9	330.1	360.6
105°	1.5	100.3	235.6	324.3	353.3
107.5°	1.5	96.0	228.3	317.0	346.1
110°	1.5	91.6	216.7	309.7	338.8



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CATALOG NUMBER: 4SNX-104HL-FDL-UNV-L950-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.5	90.2	207.9	299.5	330.1
115°	2.9	87.2	199.2	287.9	319.9
117.5°	2.9	85.8	191.9	276.3	309.7
120°	2.9	81.4	184.7	266.1	298.1
122.5°	2.9	77.1	177.4	255.9	287.9
125°	2.9	74.2	170.1	245.7	276.3
127.5°	2.9	69.8	164.3	235.6	263.2
130°	2.9	66.9	157.0	223.9	251.6
132.5°	2.9	62.5	149.8	212.3	238.5
135°	2.9	58.2	142.5	202.1	226.8
137.5°	2.9	52.3	133.8	190.5	213.7
140°	2.9	48.0	122.1	178.8	200.7
142.5°	2.9	45.1	110.5	165.8	186.1
145°	2.9	42.2	98.9	152.7	171.6
147.5°	2.9	39.3	88.7	139.6	157.0
150°	2.9	34.9	78.5	128.0	142.5
152.5°	4.4	32.0	69.8	113.4	128.0
155°	4.4	29.1	61.1	97.4	113.4
157.5°	4.4	26.2	52.3	81.4	98.9
160°	4.4	23.3	45.1	66.9	84.3
162.5°	4.4	21.8	39.3	55.3	71.2
165°	4.4	18.9	33.4	45.1	58.2
167.5°	4.4	14.5	27.6	34.9	48.0
170°	4.4	11.6	21.8	24.7	36.4
172.5°	4.4	8.7	16.0	17.4	18.9
175°	4.4	7.3	10.2	10.2	5.8
177.5°	4.4	5.8	5.8	5.8	2.9
180°	2.9	2.9	2.9	2.9	2.9

(END OF REPORT)