

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: P565996

Luminaire Tested: **4SNX-104HL-FDL-UNV-L940-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P565996  
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-L940-CD  
Description: 4FT 10400 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND FDL LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

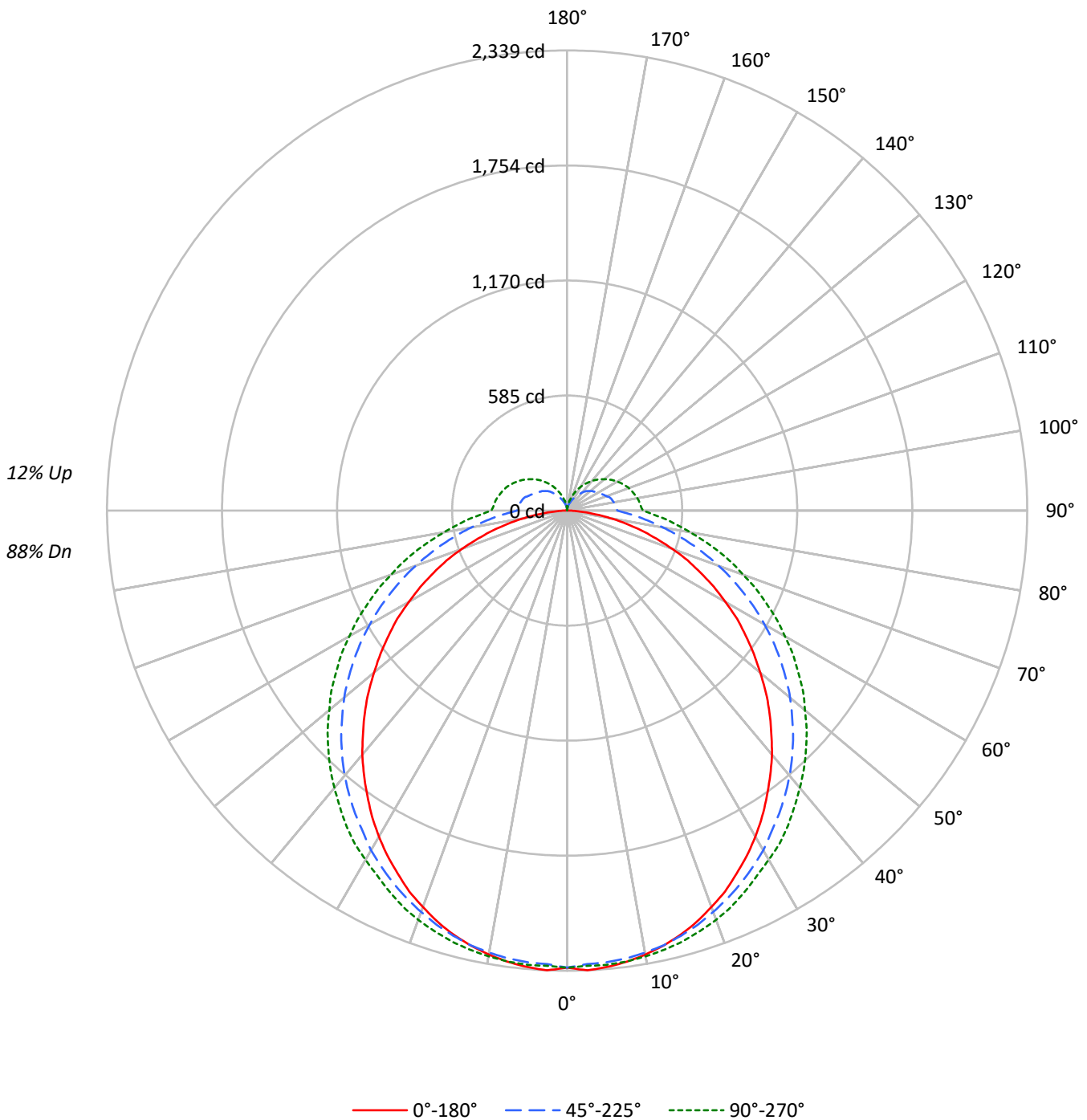
Lumens per Lamp: N/A  
Luminaire Lumens: 8364.0 lumens  
Efficiency: N/A  
Efficacy: 110.8 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.04')  
CIE Type: Semi-Direct

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

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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	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°	25007	25007	25007
5°	25141	24631	24681
10°	25002	24400	24424
15°	24798	24122	24186
20°	24468	23789	23914
25°	24072	23449	23550
30°	23642	23110	23239
35°	23094	22703	23022
40°	22564	22365	22688
45°	21923	21973	22407
50°	21180	21560	22051
55°	20473	21046	21732
60°	19658	20499	21343
65°	18662	19871	20962
70°	17397	19185	20529
75°	15597	18432	20381
80°	13075	17964	20219
85°	9480	18333	21312



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	220.6	2.6
10°-20°	634.4	7.6
20°-30°	965.2	11.5
30°-40°	1173.5	14.0
40°-50°	1241.6	14.8
50°-60°	1163.8	13.9
60°-70°	957.4	11.4
70°-80°	662.4	7.9
80°-90°	368.4	4.4
90°-100°	242.7	2.9
100°-110°	217.6	2.6
110°-120°	180.1	2.2
120°-130°	139.3	1.7
130°-140°	98.6	1.2
140°-150°	59.5	0.7
150°-160°	28.6	0.3
160°-170°	9.3	0.1
170°-180°	1.1	0.0
0°-30°	1820.1	21.8
0°-40°	2993.7	35.8
0°-60°	5399.0	64.6
0°-90°	7387.2	88.3
90°-120°	640.4	7.7
90°-150°	937.7	11.2
90°-180°	977.0	11.7
0°-180°	8364.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2323	2323	2323	2323	2323	
5°	2329	2325	2305	2323	2318	221
15°	2232	2239	2237	2267	2267	629
25°	2037	2065	2090	2136	2137	939
35°	1770	1818	1879	1939	1956	1108
45°	1455	1531	1624	1697	1717	1122
55°	1107	1206	1322	1405	1434	991
65°	749	856	990	1087	1117	743
75°	390	503	650	753	795	413
85°	86	213	361	461	501	99
90°	1	120	255	351	385	6
95°	1	115	248	340	372	1
105°	1	99	232	319	348	1
115°	3	86	196	284	315	2
125°	3	73	168	242	272	3
135°	3	57	140	199	223	2
145°	3	42	97	150	169	2
155°	4	29	60	96	112	2
165°	4	19	33	44	57	1
175°	4	7	10	10	6	0
180°	3	3	3	3	3	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2323.2	2323.2	2323.2	2323.2	2323.2
2.5°	2339.0	2331.8	2307.4	2323.2	2316.0
5°	2328.9	2324.6	2304.6	2323.2	2317.5
7.5°	2313.2	2311.7	2296.0	2317.5	2311.7
10°	2291.7	2294.5	2281.7	2304.6	2300.3
12.5°	2264.5	2268.8	2263.0	2288.8	2286.0
15°	2231.5	2238.7	2237.3	2267.3	2267.3
17.5°	2191.4	2201.5	2207.2	2241.6	2241.6
20°	2144.2	2159.9	2171.4	2208.6	2214.3
22.5°	2096.9	2115.5	2132.7	2171.4	2180.0
25°	2036.7	2065.4	2089.7	2135.6	2137.0
27.5°	1978.0	2009.5	2042.5	2086.9	2091.2
30°	1913.6	1953.7	1993.8	2036.7	2049.6
32.5°	1844.8	1889.2	1933.6	1990.9	2008.1
35°	1770.3	1817.6	1879.2	1939.3	1956.5
37.5°	1695.8	1748.8	1820.5	1882.0	1897.8
40°	1619.9	1678.7	1758.9	1821.9	1840.5
42.5°	1535.4	1607.0	1693.0	1760.3	1781.8
45°	1455.2	1531.1	1624.2	1697.3	1717.3
47.5°	1370.7	1450.9	1551.2	1628.5	1651.4
50°	1280.5	1372.1	1479.6	1556.9	1578.4
52.5°	1196.0	1289.1	1402.2	1482.4	1512.5
55°	1107.2	1206.0	1322.0	1405.1	1433.7
57.5°	1024.1	1118.6	1243.2	1326.3	1362.1
60°	929.6	1034.1	1158.7	1249.0	1277.6
62.5°	840.8	946.8	1075.7	1168.8	1201.7
65°	749.1	856.5	989.7	1087.1	1117.2
67.5°	663.2	769.1	905.2	1001.2	1039.9
70°	568.6	680.3	819.3	918.1	951.0
72.5°	475.5	591.5	733.3	839.3	876.6
75°	389.6	502.7	650.3	753.4	794.9
77.5°	306.5	421.1	570.1	676.0	711.9
80°	223.4	343.8	495.6	600.1	634.5
82.5°	147.5	273.6	424.0	528.5	565.8
85°	85.9	213.4	360.9	461.2	501.3
87.5°	37.2	161.9	302.2	401.0	434.0
90°	1.4	120.3	254.9	350.9	385.3
92.5°	1.4	117.4	249.2	343.8	376.7
95°	1.4	114.6	247.8	339.5	372.4
97.5°	1.4	113.2	244.9	336.6	368.1
100°	1.4	108.9	240.6	330.9	362.4
102.5°	1.4	103.1	236.3	325.1	355.2
105°	1.4	98.8	232.0	319.4	348.0
107.5°	1.4	94.5	224.9	312.2	340.9
110°	1.4	90.2	213.4	305.1	333.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	88.8	204.8	295.1	325.1
115°	2.9	85.9	196.2	283.6	315.1
117.5°	2.9	84.5	189.1	272.1	305.1
120°	2.9	80.2	181.9	262.1	293.6
122.5°	2.9	75.9	174.7	252.1	283.6
125°	2.9	73.0	167.6	242.1	272.1
127.5°	2.9	68.8	161.9	232.0	259.2
130°	2.9	65.9	154.7	220.6	247.8
132.5°	2.9	61.6	147.5	209.1	234.9
135°	2.9	57.3	140.4	199.1	223.4
137.5°	2.9	51.6	131.8	187.6	210.5
140°	2.9	47.3	120.3	176.2	197.7
142.5°	2.9	44.4	108.9	163.3	183.3
145°	2.9	41.5	97.4	150.4	169.0
147.5°	2.9	38.7	87.4	137.5	154.7
150°	2.9	34.4	77.3	126.0	140.4
152.5°	4.3	31.5	68.8	111.7	126.0
155°	4.3	28.6	60.2	96.0	111.7
157.5°	4.3	25.8	51.6	80.2	97.4
160°	4.3	22.9	44.4	65.9	83.1
162.5°	4.3	21.5	38.7	54.4	70.2
165°	4.3	18.6	32.9	44.4	57.3
167.5°	4.3	14.3	27.2	34.4	47.3
170°	4.3	11.5	21.5	24.3	35.8
172.5°	4.3	8.6	15.8	17.2	18.6
175°	4.3	7.2	10.0	10.0	5.7
177.5°	4.3	5.7	5.7	5.7	2.9
180°	2.9	2.9	2.9	2.9	2.9

(END OF REPORT)