

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: P565945

Luminaire Tested: **4SNX-100HL-FDL-UNV-L850-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P565945  
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-100HL-FDL-UNV-L850-CD  
Description: 4FT 10000 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND FDL LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

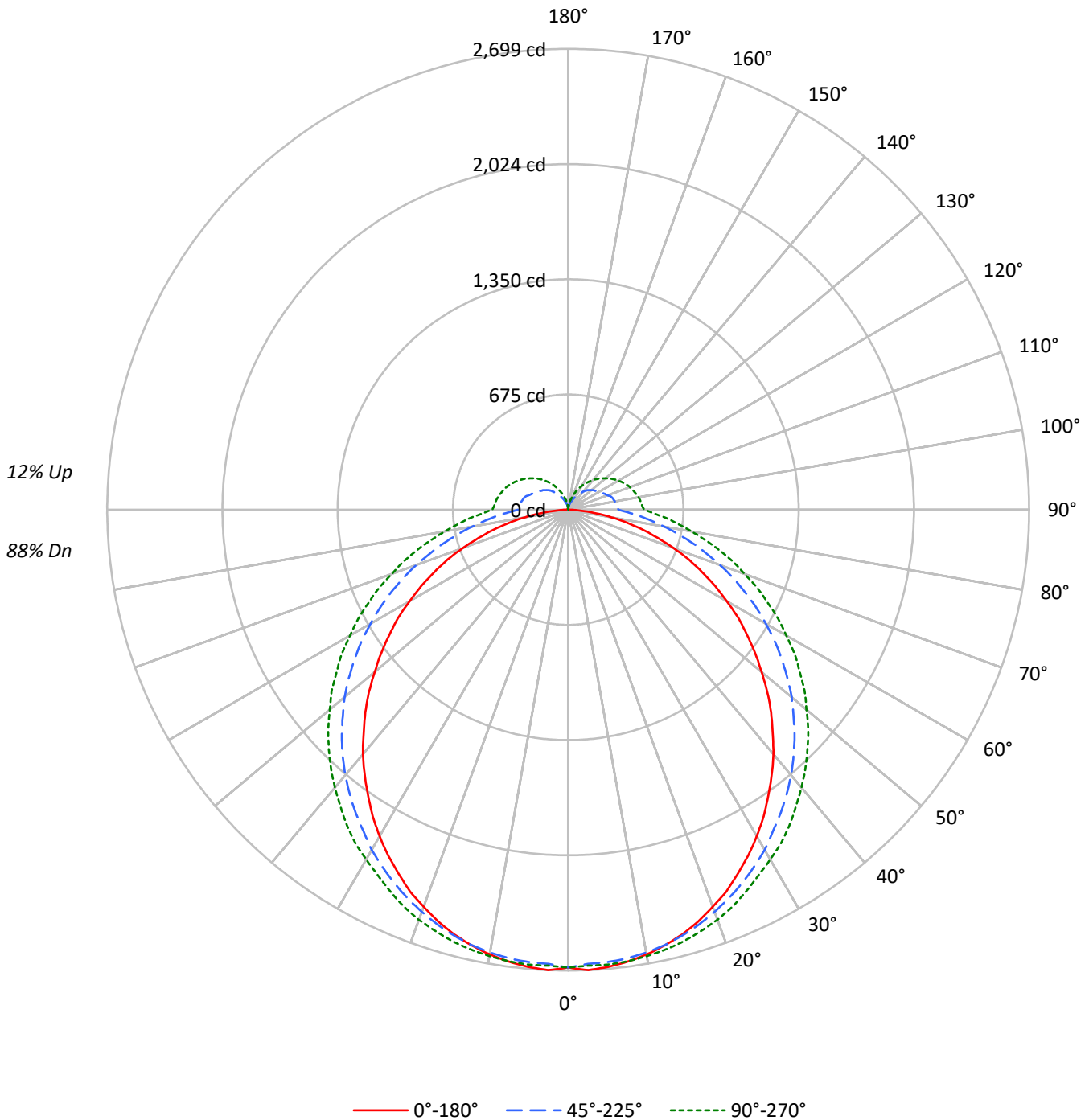
Lumens per Lamp: N/A  
Luminaire Lumens: 9653.0 lumens  
Efficiency: N/A  
Efficacy: 133.1 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.04')  
CIE Type: Semi-Direct

Input Watts (W): 72.5  
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°	28860	28860	28860
5°	29015	28427	28484
10°	28856	28160	28188
15°	28619	27839	27914
20°	28239	27454	27599
25°	27782	27064	27179
30°	27286	26671	26820
35°	26654	26201	26571
40°	26043	25811	26186
45°	25303	25359	25861
50°	24443	24882	25449
55°	23628	24290	25082
60°	22686	23658	24632
65°	21537	22935	24193
70°	20080	22140	23694
75°	17999	21272	23522
80°	15095	20733	23336
85°	10948	21162	24598



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	254.5	2.6
10°-20°	732.2	7.6
20°-30°	1113.9	11.5
30°-40°	1354.4	14.0
40°-50°	1432.9	14.8
50°-60°	1343.1	13.9
60°-70°	1105.0	11.4
70°-80°	764.5	7.9
80°-90°	425.2	4.4
90°-100°	280.1	2.9
100°-110°	251.2	2.6
110°-120°	207.9	2.2
120°-130°	160.7	1.7
130°-140°	113.8	1.2
140°-150°	68.6	0.7
150°-160°	33.0	0.3
160°-170°	10.8	0.1
170°-180°	1.3	0.0
0°-30°	2100.6	21.8
0°-40°	3455.0	35.8
0°-60°	6231.1	64.6
0°-90°	8525.7	88.3
90°-120°	739.1	7.7
90°-150°	1082.2	11.2
90°-180°	1127.0	11.7
0°-180°	9653.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2681	2681	2681	2681	2681	
5°	2688	2683	2660	2681	2675	255
15°	2575	2584	2582	2617	2617	726
25°	2351	2384	2412	2465	2466	1084
35°	2043	2098	2169	2238	2258	1279
45°	1680	1767	1874	1959	1982	1295
55°	1278	1392	1526	1622	1655	1144
65°	864	988	1142	1255	1289	857
75°	450	580	750	870	917	477
85°	99	246	417	532	579	114
90°	2	139	294	405	445	7
95°	2	132	286	392	430	1
105°	2	114	268	369	402	2
115°	3	99	226	327	364	3
125°	3	84	193	279	314	3
135°	3	66	162	230	258	3
145°	3	48	112	174	195	2
155°	5	33	69	111	129	2
165°	5	22	38	51	66	1
175°	5	8	12	12	7	0
180°	3	3	3	3	3	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2681.2	2681.2	2681.2	2681.2	2681.2
2.5°	2699.4	2691.1	2663.0	2681.2	2673.0
5°	2687.8	2682.9	2659.7	2681.2	2674.6
7.5°	2669.7	2668.0	2649.8	2674.6	2668.0
10°	2644.9	2648.2	2633.3	2659.7	2654.8
12.5°	2613.5	2618.4	2611.8	2641.6	2638.3
15°	2575.4	2583.7	2582.0	2616.8	2616.8
17.5°	2529.2	2540.7	2547.3	2587.0	2587.0
20°	2474.6	2492.8	2506.0	2549.0	2555.6
22.5°	2420.0	2441.5	2461.4	2506.0	2515.9
25°	2350.6	2383.7	2411.8	2464.7	2466.3
27.5°	2282.8	2319.2	2357.2	2408.5	2413.4
30°	2208.5	2254.7	2301.0	2350.6	2365.5
32.5°	2129.1	2180.4	2231.6	2297.7	2317.6
35°	2043.2	2097.7	2168.8	2238.2	2258.1
37.5°	1957.2	2018.4	2101.0	2172.1	2190.3
40°	1869.6	1937.4	2029.9	2102.7	2124.2
42.5°	1772.1	1854.7	1953.9	2031.6	2056.4
45°	1679.5	1767.1	1874.5	1958.9	1982.0
47.5°	1582.0	1674.5	1790.2	1879.5	1906.0
50°	1477.8	1583.6	1707.6	1796.9	1821.6
52.5°	1380.3	1487.7	1618.3	1710.9	1745.6
55°	1277.8	1391.9	1525.8	1621.6	1654.7
57.5°	1181.9	1291.0	1434.8	1530.7	1572.0
60°	1072.8	1193.5	1337.3	1441.5	1474.5
62.5°	970.3	1092.7	1241.4	1348.9	1386.9
65°	864.5	988.5	1142.3	1254.7	1289.4
67.5°	765.4	887.7	1044.7	1155.5	1200.1
70°	656.3	785.2	945.5	1059.6	1097.6
72.5°	548.8	682.7	846.4	968.7	1011.7
75°	449.6	580.2	750.5	869.5	917.4
77.5°	353.8	486.0	657.9	780.2	821.6
80°	257.9	396.7	572.0	692.6	732.3
82.5°	170.3	315.7	489.3	610.0	653.0
85°	99.2	246.3	416.6	532.3	578.6
87.5°	43.0	186.8	348.8	462.9	500.9
90°	1.7	138.9	294.2	405.0	444.7
92.5°	1.7	135.5	287.6	396.7	434.7
95°	1.7	132.2	286.0	391.8	429.8
97.5°	1.7	130.6	282.7	388.5	424.8
100°	1.7	125.6	277.7	381.9	418.2
102.5°	1.7	119.0	272.8	375.2	410.0
105°	1.7	114.1	267.8	368.6	401.7
107.5°	1.7	109.1	259.5	360.4	393.4
110°	1.7	104.1	246.3	352.1	385.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.7	102.5	236.4	340.5	375.2
115°	3.3	99.2	226.5	327.3	363.7
117.5°	3.3	97.5	218.2	314.1	352.1
120°	3.3	92.6	209.9	302.5	338.9
122.5°	3.3	87.6	201.7	290.9	327.3
125°	3.3	84.3	193.4	279.4	314.1
127.5°	3.3	79.3	186.8	267.8	299.2
130°	3.3	76.0	178.5	254.6	286.0
132.5°	3.3	71.1	170.3	241.3	271.1
135°	3.3	66.1	162.0	229.8	257.9
137.5°	3.3	59.5	152.1	216.5	243.0
140°	3.3	54.6	138.9	203.3	228.1
142.5°	3.3	51.2	125.6	188.4	211.6
145°	3.3	47.9	112.4	173.6	195.1
147.5°	3.3	44.6	100.8	158.7	178.5
150°	3.3	39.7	89.3	145.5	162.0
152.5°	5.0	36.4	79.3	128.9	145.5
155°	5.0	33.1	69.4	110.8	128.9
157.5°	5.0	29.8	59.5	92.6	112.4
160°	5.0	26.4	51.2	76.0	95.9
162.5°	5.0	24.8	44.6	62.8	81.0
165°	5.0	21.5	38.0	51.2	66.1
167.5°	5.0	16.5	31.4	39.7	54.6
170°	5.0	13.2	24.8	28.1	41.3
172.5°	5.0	9.9	18.2	19.8	21.5
175°	5.0	8.3	11.6	11.6	6.6
177.5°	5.0	6.6	6.6	6.6	3.3
180°	3.3	3.3	3.3	3.3	3.3

(END OF REPORT)