

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: P566949

Luminaire Tested: **4SNX-87HL-UNV-L950-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566949  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2202-547-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNX-87HL-UNV-L950-CD  
Description: 4FT 8700 LUMEN, SNX FIXTURE WITH 5000K, 90CRI LEDS AND NO LENS  
Light Source: -  
Ballast/Driver: -

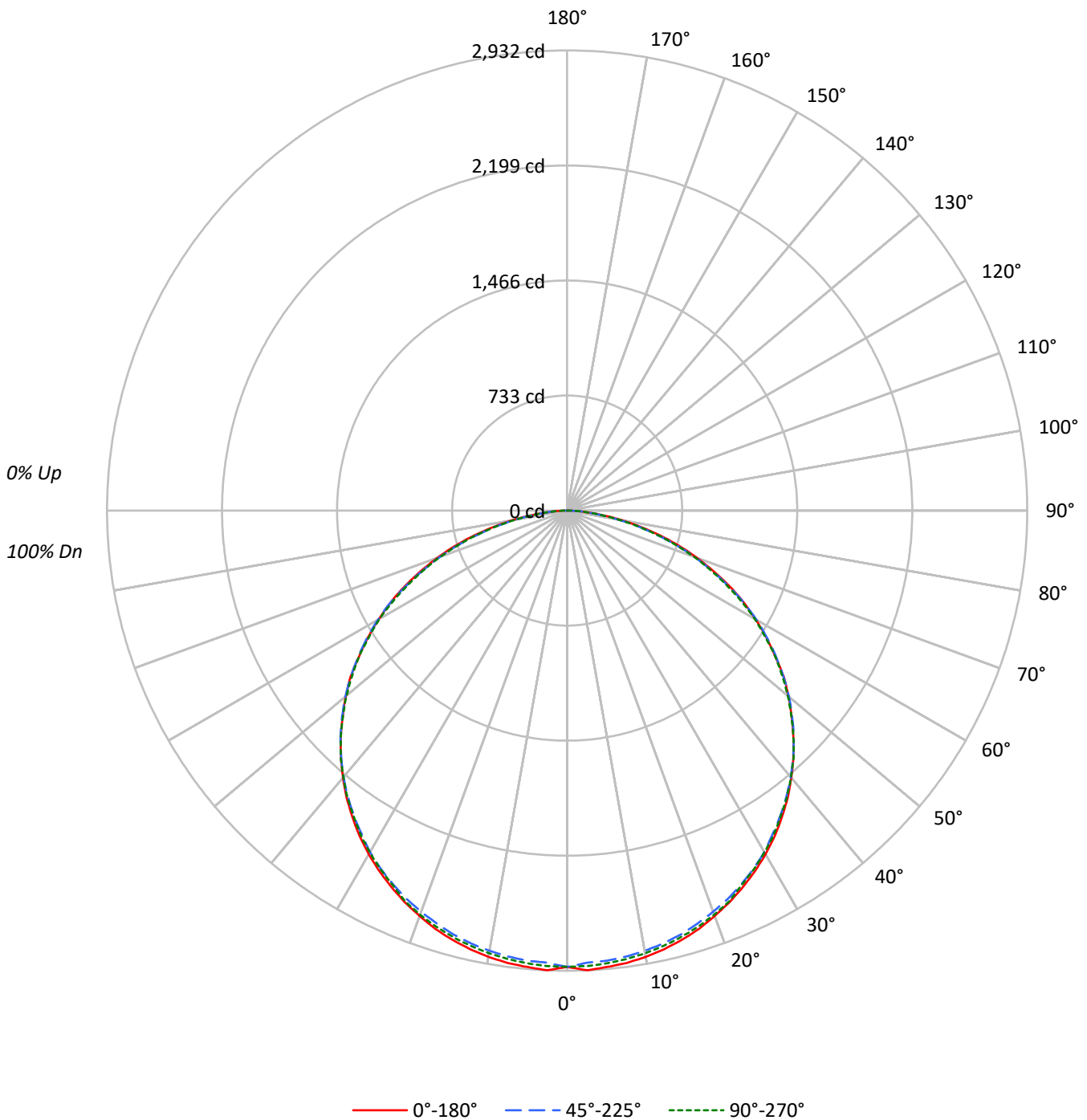
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8702.0 lumens  
Efficiency: N/A  
Efficacy: 139.9 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.41  
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 62.2  
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	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	109	104	99	95	106	101	98	94	97	94	91		93	91	88		90	88	86	83
2	99	90	83	77	96	88	82	76	85	79	75		81	77	73		78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62		72	66	61		69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	46		57	50	45		55	49	45	42
6	69	56	47	40	67	55	46	40	53	45	40		51	45	39		50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		45	39	35	33
8	60	46	37	32	58	45	37	31	44	37	31		43	36	31		42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25		36	30	25		36	30	25	23

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

	0°	45°	90°
0°	31291	31291	31291
5°	31543	31104	31291
10°	31559	31129	31303
15°	31545	31161	31339
20°	31481	31157	31382
25°	31443	31194	31253
30°	31422	31223	31254
35°	31345	31152	31200
40°	31219	31150	31167
45°	31049	31106	31049
50°	30841	30902	30737
55°	30360	30522	30360
60°	29848	29980	29715
65°	29109	28765	28452
70°	27720	27103	27025
75°	25581	24354	24458
80°	21888	20511	20896
85°	16253	15956	14894



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	275.9	3.2
10°-20°	794.9	9.1
20°-30°	1216.9	14.0
30°-40°	1488.6	17.1
40°-50°	1574.5	18.1
50°-60°	1450.8	16.7
60°-70°	1116.6	12.8
70°-80°	627.3	7.2
80°-90°	156.5	1.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2287.7	26.3
0°-40°	3776.3	43.4
0°-60°	6801.6	78.2
0°-90°	8702.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8702.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2907	2907	2907	2907	2907	
5°	2919	2911	2879	2905	2896	278
15°	2831	2823	2796	2821	2812	799
25°	2648	2645	2626	2645	2632	1221
35°	2385	2382	2371	2382	2374	1493
45°	2040	2046	2043	2038	2040	1573
55°	1618	1632	1626	1621	1618	1449
65°	1143	1145	1129	1113	1117	1127
75°	615	605	586	577	588	648
85°	132	129	129	126	121	162
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2907.0	2907.0	2907.0	2907.0	2907.0
2.5°	2931.6	2915.7	2883.7	2912.0	2904.6
5°	2919.3	2910.7	2878.7	2904.6	2896.0
7.5°	2907.0	2897.2	2866.4	2894.7	2882.4
10°	2887.4	2878.7	2848.0	2875.1	2864.0
12.5°	2861.5	2854.1	2825.8	2851.7	2840.6
15°	2830.8	2823.4	2796.3	2820.9	2812.3
17.5°	2793.9	2785.2	2759.4	2785.2	2779.1
20°	2748.3	2743.4	2720.0	2743.4	2739.7
22.5°	2701.6	2695.4	2677.0	2694.2	2695.4
25°	2647.5	2645.0	2626.5	2645.0	2631.5
27.5°	2590.9	2590.9	2572.4	2584.7	2576.1
30°	2528.1	2526.9	2512.1	2518.3	2514.6
32.5°	2460.5	2459.2	2439.6	2455.5	2449.4
35°	2385.4	2381.7	2370.7	2381.7	2374.4
37.5°	2307.9	2304.2	2295.6	2301.8	2300.5
40°	2221.8	2221.8	2216.9	2221.8	2218.1
42.5°	2133.2	2136.9	2130.8	2135.7	2135.7
45°	2039.7	2045.9	2043.4	2038.5	2039.7
47.5°	1940.1	1951.2	1945.0	1943.8	1937.6
50°	1841.7	1851.5	1845.4	1839.2	1835.5
52.5°	1739.6	1744.5	1737.1	1734.6	1726.0
55°	1617.8	1632.5	1626.4	1621.4	1617.8
57.5°	1505.8	1516.9	1512.0	1502.1	1496.0
60°	1386.5	1395.1	1392.6	1381.6	1380.3
62.5°	1269.6	1272.1	1269.6	1249.9	1251.1
65°	1142.9	1145.3	1129.4	1113.4	1117.1
67.5°	1010.0	1017.4	995.3	971.9	987.9
70°	880.8	878.4	861.2	835.3	858.7
72.5°	748.0	745.5	725.8	707.4	723.4
75°	615.1	605.3	585.6	577.0	588.1
77.5°	477.3	466.3	457.6	451.5	456.4
80°	353.1	338.3	330.9	326.0	337.1
82.5°	235.0	223.9	220.2	223.9	221.4
85°	131.6	129.2	129.2	125.5	120.6
87.5°	54.1	56.6	57.8	56.6	54.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)