

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: P566849

Luminaire Tested: **4SNX-81HL-UNV-L850-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566849  
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-81HL-UNV-L850-CD  
Description: 4FT 8100 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND NO LENS  
Light Source: -  
Ballast/Driver: -

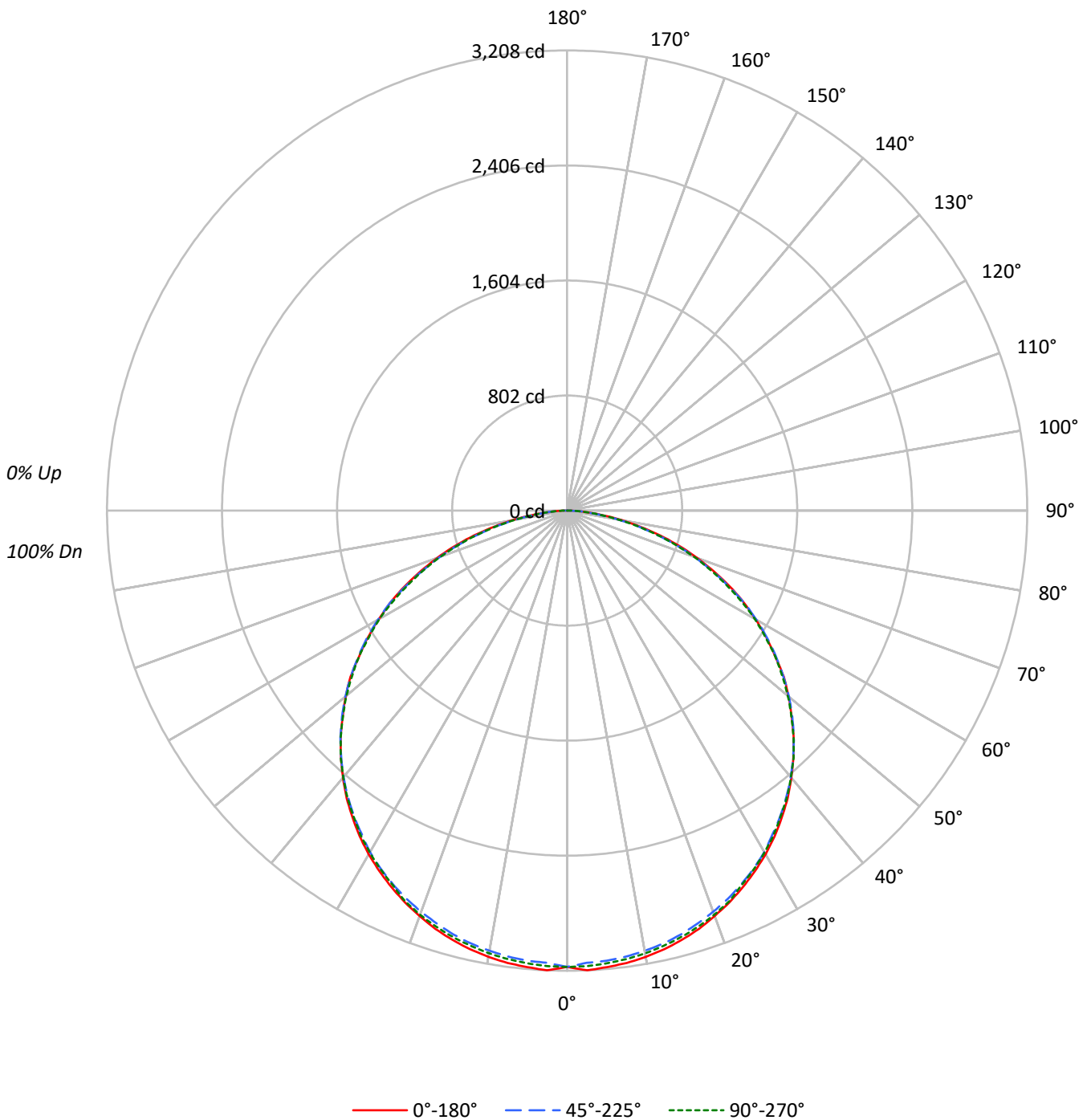
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9522.0 lumens  
Efficiency: N/A  
Efficacy: 172.8 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): 55.1  
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°	34240	34240	34240
5°	34516	34036	34240
10°	34532	34062	34253
15°	34517	34097	34292
20°	34448	34094	34340
25°	34406	34135	34198
30°	34384	34166	34200
35°	34299	34086	34140
40°	34162	34086	34104
45°	33975	34037	33975
50°	33746	33813	33634
55°	33220	33397	33220
60°	32660	32806	32516
65°	31852	31475	31131
70°	30335	29656	29571
75°	27993	26650	26762
80°	23946	22445	22861
85°	17784	17451	16290



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	301.9	3.2
10°-20°	869.8	9.1
20°-30°	1331.6	14.0
30°-40°	1628.9	17.1
40°-50°	1722.9	18.1
50°-60°	1587.5	16.7
60°-70°	1221.8	12.8
70°-80°	686.4	7.2
80°-90°	171.2	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°	2503.3	26.3
0°-40°	4132.2	43.4
0°-60°	7442.5	78.2
0°-90°	9522.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9522.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3181	3181	3181	3181	3181	
5°	3194	3185	3150	3178	3169	304
15°	3098	3089	3060	3087	3077	874
25°	2897	2894	2874	2894	2879	1336
35°	2610	2606	2594	2606	2598	1633
45°	2232	2239	2236	2231	2232	1721
55°	1770	1786	1780	1774	1770	1585
65°	1251	1253	1236	1218	1222	1234
75°	673	662	641	631	644	709
85°	144	141	141	137	132	178
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3181.0	3181.0	3181.0	3181.0	3181.0
2.5°	3207.9	3190.4	3155.4	3186.4	3178.3
5°	3194.4	3185.0	3150.0	3178.3	3168.9
7.5°	3181.0	3170.2	3136.6	3167.5	3154.1
10°	3159.4	3150.0	3116.4	3146.0	3133.9
12.5°	3131.2	3123.1	3092.1	3120.4	3108.3
15°	3097.5	3089.4	3059.8	3086.7	3077.3
17.5°	3057.1	3047.7	3019.4	3047.7	3041.0
20°	3007.3	3001.9	2976.4	3001.9	2997.9
22.5°	2956.2	2949.4	2929.2	2948.1	2949.4
25°	2896.9	2894.2	2874.1	2894.2	2879.4
27.5°	2835.0	2835.0	2814.8	2828.3	2818.9
30°	2766.4	2765.0	2748.9	2755.6	2751.6
32.5°	2692.3	2691.0	2669.4	2686.9	2680.2
35°	2610.2	2606.2	2594.0	2606.2	2598.1
37.5°	2525.4	2521.4	2511.9	2518.7	2517.3
40°	2431.2	2431.2	2425.8	2431.2	2427.1
42.5°	2334.2	2338.3	2331.5	2336.9	2336.9
45°	2231.9	2238.7	2236.0	2230.6	2231.9
47.5°	2122.9	2135.0	2128.3	2126.9	2120.2
50°	2015.2	2026.0	2019.2	2012.5	2008.5
52.5°	1903.5	1908.9	1900.8	1898.1	1888.7
55°	1770.2	1786.4	1779.6	1774.2	1770.2
57.5°	1647.7	1659.8	1654.4	1643.7	1636.9
60°	1517.1	1526.5	1523.9	1511.7	1510.4
62.5°	1389.2	1391.9	1389.2	1367.7	1369.0
65°	1250.6	1253.3	1235.8	1218.3	1222.3
67.5°	1105.2	1113.3	1089.0	1063.5	1081.0
70°	963.9	961.2	942.3	914.0	939.6
72.5°	818.5	815.8	794.2	774.0	791.5
75°	673.1	662.3	640.8	631.3	643.5
77.5°	522.3	510.2	500.8	494.0	499.4
80°	386.3	370.2	362.1	356.7	368.8
82.5°	257.1	245.0	241.0	245.0	242.3
85°	144.0	141.3	141.3	137.3	131.9
87.5°	59.2	61.9	63.3	61.9	59.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)