

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: P566852

Luminaire Tested: **4SNX-81HL-UNV-L940-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566852  
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-L940-CD  
Description: 4FT 8100 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND NO LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

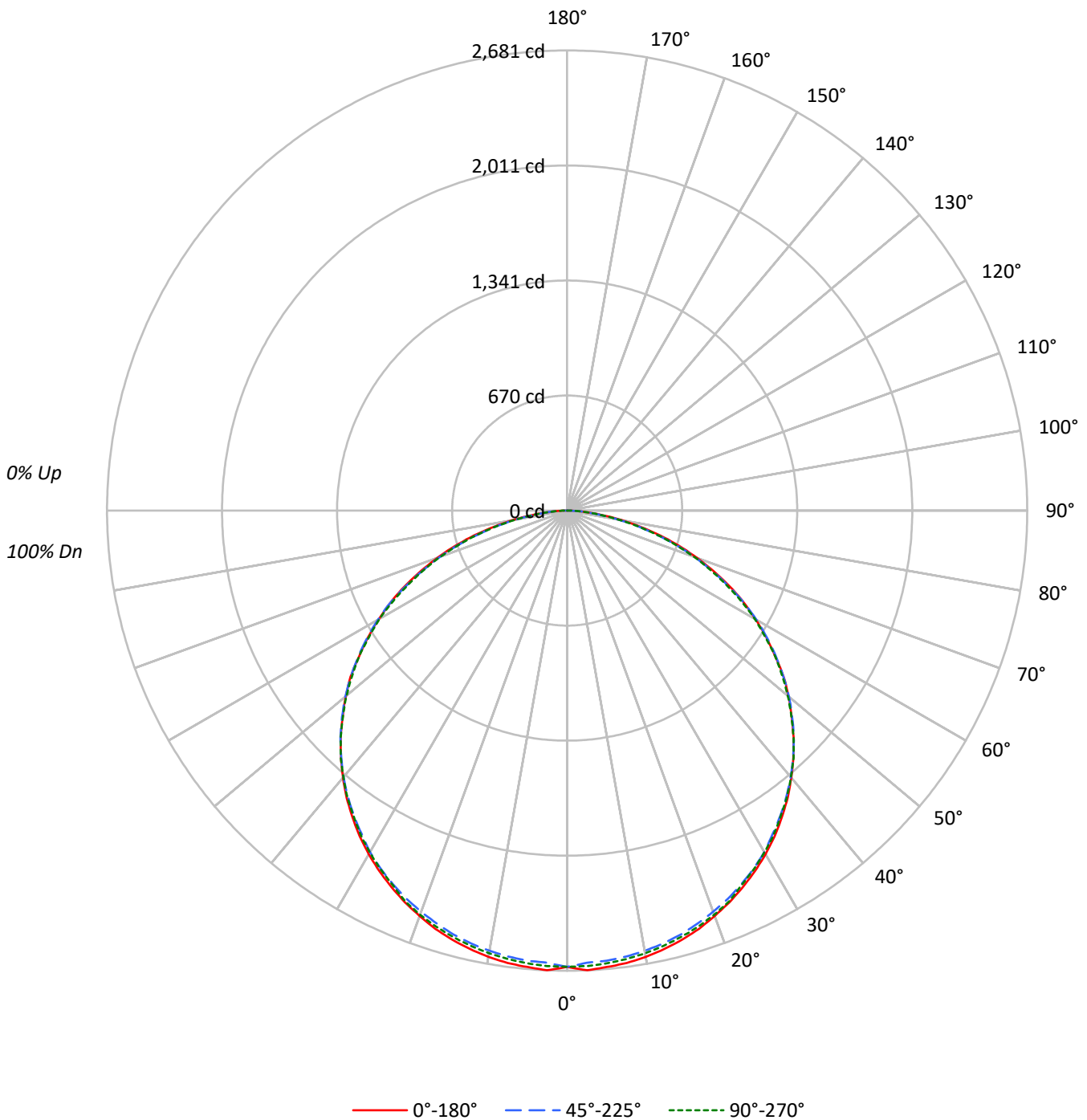
Lumens per Lamp: N/A  
Luminaire Lumens: 7957.0 lumens  
Efficiency: N/A  
Efficacy: 144.4 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.41  
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')  
CIE Type: Direct

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°	28613	28613	28613
5°	28843	28442	28612
10°	28857	28464	28623
15°	28844	28493	28656
20°	28786	28490	28696
25°	28751	28524	28578
30°	28732	28551	28578
35°	28662	28484	28529
40°	28547	28483	28499
45°	28391	28443	28391
50°	28200	28257	28106
55°	27761	27907	27761
60°	27293	27414	27170
65°	26616	26302	26015
70°	25347	24781	24711
75°	23394	22271	22362
80°	20009	18757	19104
85°	14870	14586	13610



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	252.3	3.2
10°-20°	726.9	9.1
20°-30°	1112.7	14.0
30°-40°	1361.2	17.1
40°-50°	1439.7	18.1
50°-60°	1326.5	16.7
60°-70°	1021.0	12.8
70°-80°	573.6	7.2
80°-90°	143.1	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°	2091.9	26.3
0°-40°	3453.1	43.4
0°-60°	6219.3	78.2
0°-90°	7957.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7957.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2658	2658	2658	2658	2658	
5°	2669	2662	2632	2656	2648	254
15°	2588	2582	2557	2579	2572	731
25°	2421	2419	2402	2419	2406	1117
35°	2181	2178	2168	2178	2171	1365
45°	1865	1871	1868	1864	1865	1438
55°	1479	1493	1487	1483	1479	1325
65°	1045	1047	1033	1018	1021	1031
75°	562	554	536	528	538	592
85°	120	118	118	115	110	149
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2658.2	2658.2	2658.2	2658.2	2658.2
2.5°	2680.7	2666.0	2636.8	2662.7	2655.9
5°	2669.4	2661.5	2632.3	2655.9	2648.0
7.5°	2658.2	2649.2	2621.0	2646.9	2635.7
10°	2640.2	2632.3	2604.2	2628.9	2618.8
12.5°	2616.5	2609.8	2583.9	2607.5	2597.4
15°	2588.4	2581.7	2556.9	2579.4	2571.5
17.5°	2554.7	2546.8	2523.2	2546.8	2541.2
20°	2513.0	2508.5	2487.2	2508.5	2505.2
22.5°	2470.3	2464.7	2447.8	2463.6	2464.7
25°	2420.8	2418.6	2401.7	2418.6	2406.2
27.5°	2369.1	2369.1	2352.2	2363.4	2355.6
30°	2311.7	2310.6	2297.1	2302.7	2299.3
32.5°	2249.8	2248.7	2230.7	2245.3	2239.7
35°	2181.2	2177.8	2167.7	2177.8	2171.1
37.5°	2110.3	2107.0	2099.1	2104.7	2103.6
40°	2031.6	2031.6	2027.1	2031.6	2028.2
42.5°	1950.6	1954.0	1948.3	1952.8	1952.8
45°	1865.1	1870.7	1868.5	1864.0	1865.1
47.5°	1774.0	1784.1	1778.5	1777.4	1771.7
50°	1684.0	1693.0	1687.4	1681.7	1678.4
52.5°	1590.6	1595.1	1588.4	1586.1	1578.2
55°	1479.3	1492.8	1487.1	1482.6	1479.3
57.5°	1376.9	1387.0	1382.5	1373.5	1367.9
60°	1267.8	1275.6	1273.4	1263.3	1262.1
62.5°	1160.9	1163.2	1160.9	1142.9	1144.0
65°	1045.0	1047.3	1032.7	1018.0	1021.4
67.5°	923.6	930.3	910.1	888.7	903.3
70°	805.4	803.2	787.4	763.8	785.2
72.5°	683.9	681.7	663.7	646.8	661.4
75°	562.5	553.5	535.5	527.6	537.7
77.5°	436.5	426.3	418.5	412.8	417.3
80°	322.8	309.4	302.6	298.1	308.2
82.5°	214.9	204.7	201.4	204.7	202.5
85°	120.4	118.1	118.1	114.7	110.2
87.5°	49.5	51.7	52.9	51.7	49.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)