

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: P566848

Luminaire Tested: **4SNX-81HL-UNV-L840-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566848  
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-L840-CD  
Description: 4FT 8100 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND NO LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

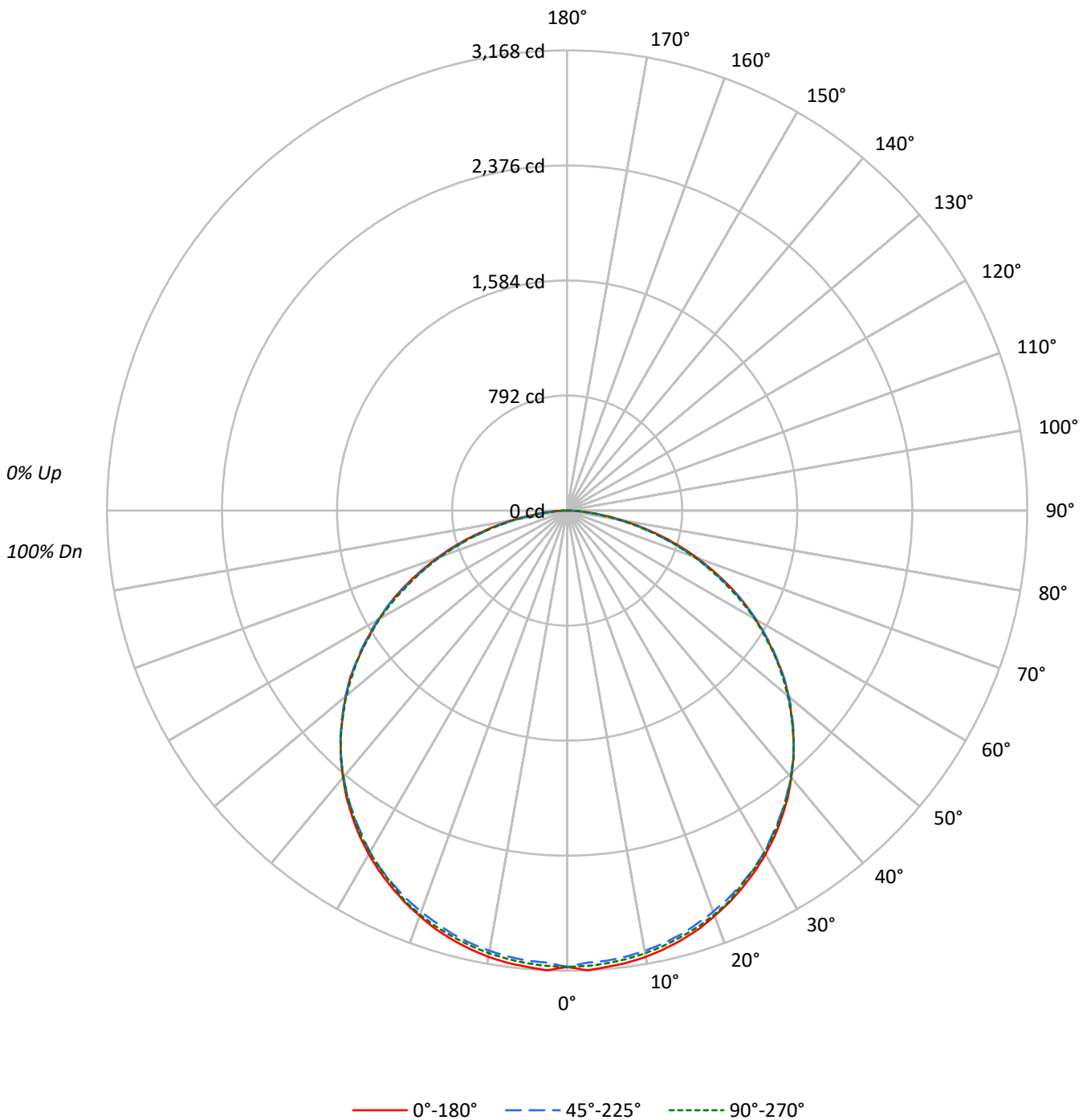
Lumens per Lamp: N/A  
Luminaire Lumens: 9402.0 lumens  
Efficiency: N/A  
Efficacy: 170.6 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.41  
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')  
CIE Type: Direct

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°	33808	33808	33808
5°	34081	33607	33808
10°	34097	33633	33822
15°	34083	33668	33860
20°	34014	33664	33907
25°	33972	33704	33767
30°	33950	33735	33769
35°	33867	33658	33709
40°	33730	33656	33674
45°	33547	33608	33547
50°	33321	33388	33210
55°	32802	32976	32802
60°	32249	32391	32107
65°	31450	31078	30739
70°	29952	29281	29199
75°	27640	26313	26425
80°	23648	22167	22576
85°	17562	17241	16092



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	298.1	3.2
10°-20°	858.9	9.1
20°-30°	1314.8	14.0
30°-40°	1608.4	17.1
40°-50°	1701.2	18.1
50°-60°	1567.5	16.7
60°-70°	1206.4	12.8
70°-80°	677.8	7.2
80°-90°	169.1	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°	2471.7	26.3
0°-40°	4080.1	43.4
0°-60°	7348.7	78.2
0°-90°	9402.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9402.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3141	3141	3141	3141	3141	
5°	3154	3145	3110	3138	3129	300
15°	3058	3050	3021	3048	3038	863
25°	2860	2858	2838	2858	2843	1319
35°	2577	2573	2561	2573	2565	1613
45°	2204	2210	2208	2202	2204	1699
55°	1748	1764	1757	1752	1748	1565
65°	1235	1238	1220	1203	1207	1218
75°	665	654	633	623	635	700
85°	142	140	140	136	130	176
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3140.9	3140.9	3140.9	3140.9	3140.9
2.5°	3167.5	3150.2	3115.6	3146.2	3138.2
5°	3154.2	3144.9	3110.3	3138.2	3128.9
7.5°	3140.9	3130.3	3097.0	3127.6	3114.3
10°	3119.6	3110.3	3077.1	3106.3	3094.4
12.5°	3091.7	3083.7	3053.2	3081.1	3069.1
15°	3058.5	3050.5	3021.3	3047.8	3038.5
17.5°	3018.6	3009.3	2981.4	3009.3	3002.7
20°	2969.4	2964.1	2938.9	2964.1	2960.1
22.5°	2918.9	2912.3	2892.3	2910.9	2912.3
25°	2860.4	2857.8	2837.8	2857.8	2843.1
27.5°	2799.3	2799.3	2779.3	2792.6	2783.3
30°	2731.5	2730.2	2714.2	2720.9	2716.9
32.5°	2658.4	2657.1	2635.8	2653.1	2646.4
35°	2577.3	2573.3	2561.4	2573.3	2565.3
37.5°	2493.6	2489.6	2480.3	2486.9	2485.6
40°	2400.5	2400.5	2395.2	2400.5	2396.5
42.5°	2304.8	2308.8	2302.2	2307.5	2307.5
45°	2203.8	2210.5	2207.8	2202.5	2203.8
47.5°	2096.1	2108.1	2101.5	2100.1	2093.5
50°	1989.8	2000.4	1993.8	1987.1	1983.2
52.5°	1879.5	1884.8	1876.8	1874.2	1864.9
55°	1747.9	1763.8	1757.2	1751.9	1747.9
57.5°	1626.9	1638.9	1633.6	1622.9	1616.3
60°	1498.0	1507.3	1504.6	1492.7	1491.4
62.5°	1371.7	1374.4	1371.7	1350.5	1351.8
65°	1234.8	1237.5	1220.2	1202.9	1206.9
67.5°	1091.3	1099.2	1075.3	1050.1	1067.3
70°	951.7	949.0	930.4	902.5	927.8
72.5°	808.2	805.5	784.2	764.3	781.6
75°	664.6	654.0	632.7	623.4	635.4
77.5°	515.7	503.8	494.5	487.8	493.1
80°	381.5	365.5	357.6	352.2	364.2
82.5°	253.9	241.9	237.9	241.9	239.3
85°	142.2	139.6	139.6	135.6	130.3
87.5°	58.5	61.1	62.5	61.1	58.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)