

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: P566941

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

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566941  
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-87HL-SLW-UNV-L950-CD  
Description: 4FT 8700 LUMEN, SNX FIXTURE WITH 5000K, 90CRI LEDS AND SLW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

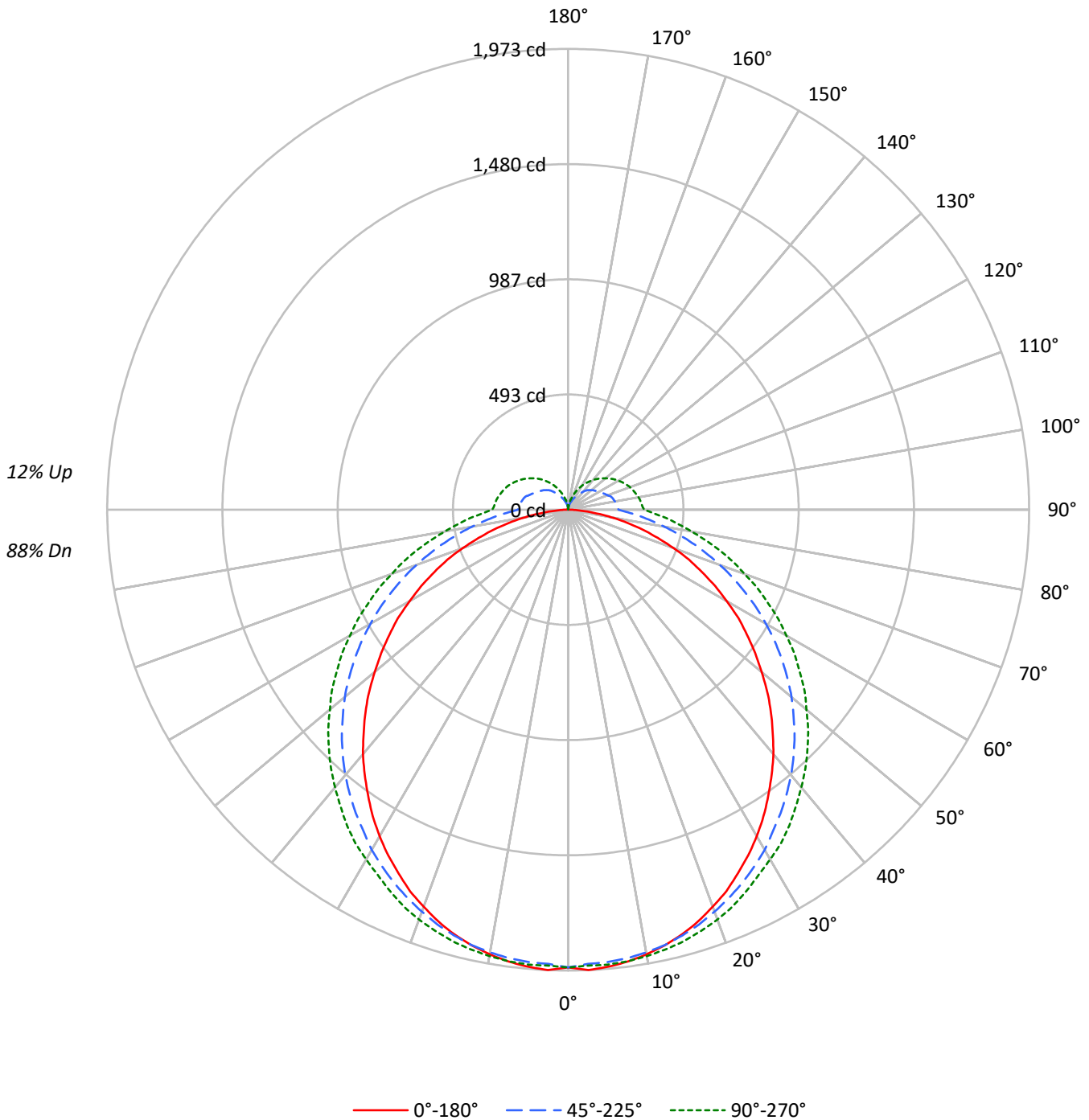
Lumens per Lamp: N/A  
Luminaire Lumens: 7055.0 lumens  
Efficiency: N/A  
Efficacy: 113.4 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')  
CIE Type: Semi-Direct

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	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°	21093	21093	21093
5°	21187	20555	20525
10°	21051	20150	20035
15°	20860	19712	19571
20°	20562	19233	19089
25°	20209	18754	18538
30°	19824	18271	18032
35°	19341	17732	17595
40°	18871	17239	17062
45°	18306	16691	16555
50°	17651	16110	15975
55°	17021	15430	15396
60°	16294	14693	14730
65°	15409	13852	14020
70°	14280	12906	13203
75°	12684	11814	12454
80°	10454	10731	11508
85°	7237	9765	10890



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	186.0	2.6
10°-20°	535.1	7.6
20°-30°	814.1	11.5
30°-40°	989.9	14.0
40°-50°	1047.2	14.8
50°-60°	981.7	13.9
60°-70°	807.6	11.4
70°-80°	558.8	7.9
80°-90°	310.7	4.4
90°-100°	204.7	2.9
100°-110°	183.6	2.6
110°-120°	151.9	2.2
120°-130°	117.5	1.7
130°-140°	83.1	1.2
140°-150°	50.2	0.7
150°-160°	24.1	0.3
160°-170°	7.9	0.1
170°-180°	1.0	0.0
0°-30°	1535.3	21.8
0°-40°	2525.1	35.8
0°-60°	4554.0	64.6
0°-90°	6231.1	88.3
90°-120°	540.2	7.7
90°-150°	790.9	11.2
90°-180°	824.0	11.7
0°-180°	7055.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1960	1960	1960	1960	1960	
5°	1964	1961	1944	1960	1955	186
15°	1882	1888	1887	1912	1912	531
25°	1718	1742	1763	1801	1802	792
35°	1493	1533	1585	1636	1650	935
45°	1228	1292	1370	1432	1449	946
55°	934	1017	1115	1185	1209	836
65°	632	722	835	917	942	627
75°	329	424	548	636	670	349
85°	72	180	304	389	423	83
90°	1	102	215	296	325	5
95°	1	97	209	286	314	1
105°	1	83	196	269	294	1
115°	2	72	166	239	266	2
125°	2	62	141	204	230	2
135°	2	48	118	168	188	2
145°	2	35	82	127	143	2
155°	4	24	51	81	94	2
165°	4	16	28	38	48	1
175°	4	6	8	8	5	0
180°	2	2	2	2	2	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1959.6	1959.6	1959.6	1959.6	1959.6
2.5°	1972.9	1966.9	1946.3	1959.6	1953.6
5°	1964.4	1960.8	1943.9	1959.6	1954.8
7.5°	1951.1	1949.9	1936.7	1954.8	1949.9
10°	1933.0	1935.4	1924.6	1943.9	1940.3
12.5°	1910.1	1913.7	1908.9	1930.6	1928.2
15°	1882.3	1888.3	1887.1	1912.5	1912.5
17.5°	1848.5	1856.9	1861.7	1890.7	1890.7
20°	1808.6	1821.9	1831.5	1863.0	1867.8
22.5°	1768.7	1784.4	1798.9	1831.5	1838.8
25°	1718.0	1742.1	1762.7	1801.3	1802.5
27.5°	1668.4	1695.0	1722.8	1760.3	1763.9
30°	1614.1	1647.9	1681.7	1718.0	1728.9
32.5°	1556.1	1593.5	1631.0	1679.3	1693.8
35°	1493.3	1533.1	1585.1	1635.8	1650.3
37.5°	1430.4	1475.1	1535.5	1587.5	1600.8
40°	1366.4	1415.9	1483.6	1536.8	1552.5
42.5°	1295.1	1355.5	1428.0	1484.8	1502.9
45°	1227.5	1291.5	1370.0	1431.6	1448.6
47.5°	1156.2	1223.8	1308.4	1373.7	1393.0
50°	1080.1	1157.4	1248.0	1313.3	1331.4
52.5°	1008.8	1087.3	1182.8	1250.4	1275.8
55°	933.9	1017.3	1115.1	1185.2	1209.4
57.5°	863.8	943.6	1048.7	1118.7	1148.9
60°	784.1	872.3	977.4	1053.5	1077.7
62.5°	709.2	798.6	907.3	985.8	1013.6
65°	631.9	722.5	834.8	917.0	942.4
67.5°	559.4	648.8	763.5	844.5	877.1
70°	479.6	573.9	691.1	774.4	802.2
72.5°	401.1	499.0	618.6	708.0	739.4
75°	328.6	424.1	548.5	635.5	670.5
77.5°	258.5	355.2	480.8	570.2	600.4
80°	188.5	290.0	418.0	506.2	535.2
82.5°	124.4	230.8	357.6	445.8	477.2
85°	72.5	180.0	304.5	389.0	422.8
87.5°	31.4	136.5	254.9	338.3	366.1
90°	1.2	101.5	215.0	296.0	325.0
92.5°	1.2	99.1	210.2	290.0	317.7
95°	1.2	96.7	209.0	286.3	314.1
97.5°	1.2	95.4	206.6	283.9	310.5
100°	1.2	91.8	203.0	279.1	305.7
102.5°	1.2	87.0	199.3	274.2	299.6
105°	1.2	83.4	195.7	269.4	293.6
107.5°	1.2	79.7	189.7	263.4	287.5
110°	1.2	76.1	180.0	257.3	281.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	74.9	172.8	248.9	274.2
115°	2.4	72.5	165.5	239.2	265.8
117.5°	2.4	71.3	159.5	229.5	257.3
120°	2.4	67.7	153.4	221.1	247.7
122.5°	2.4	64.0	147.4	212.6	239.2
125°	2.4	61.6	141.4	204.2	229.5
127.5°	2.4	58.0	136.5	195.7	218.7
130°	2.4	55.6	130.5	186.1	209.0
132.5°	2.4	52.0	124.4	176.4	198.1
135°	2.4	48.3	118.4	167.9	188.5
137.5°	2.4	43.5	111.1	158.3	177.6
140°	2.4	39.9	101.5	148.6	166.7
142.5°	2.4	37.5	91.8	137.7	154.6
145°	2.4	35.0	82.2	126.9	142.6
147.5°	2.4	32.6	73.7	116.0	130.5
150°	2.4	29.0	65.2	106.3	118.4
152.5°	3.6	26.6	58.0	94.2	106.3
155°	3.6	24.2	50.7	80.9	94.2
157.5°	3.6	21.7	43.5	67.7	82.2
160°	3.6	19.3	37.5	55.6	70.1
162.5°	3.6	18.1	32.6	45.9	59.2
165°	3.6	15.7	27.8	37.5	48.3
167.5°	3.6	12.1	23.0	29.0	39.9
170°	3.6	9.7	18.1	20.5	30.2
172.5°	3.6	7.2	13.3	14.5	15.7
175°	3.6	6.0	8.5	8.5	4.8
177.5°	3.6	4.8	4.8	4.8	2.4
180°	2.4	2.4	2.4	2.4	2.4

(END OF REPORT)