

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: P566827

Luminaire Tested: **4SNX-81HL-LN-UNV-L935-CD**

Issue Date: 9/15/2022



**Test Information**

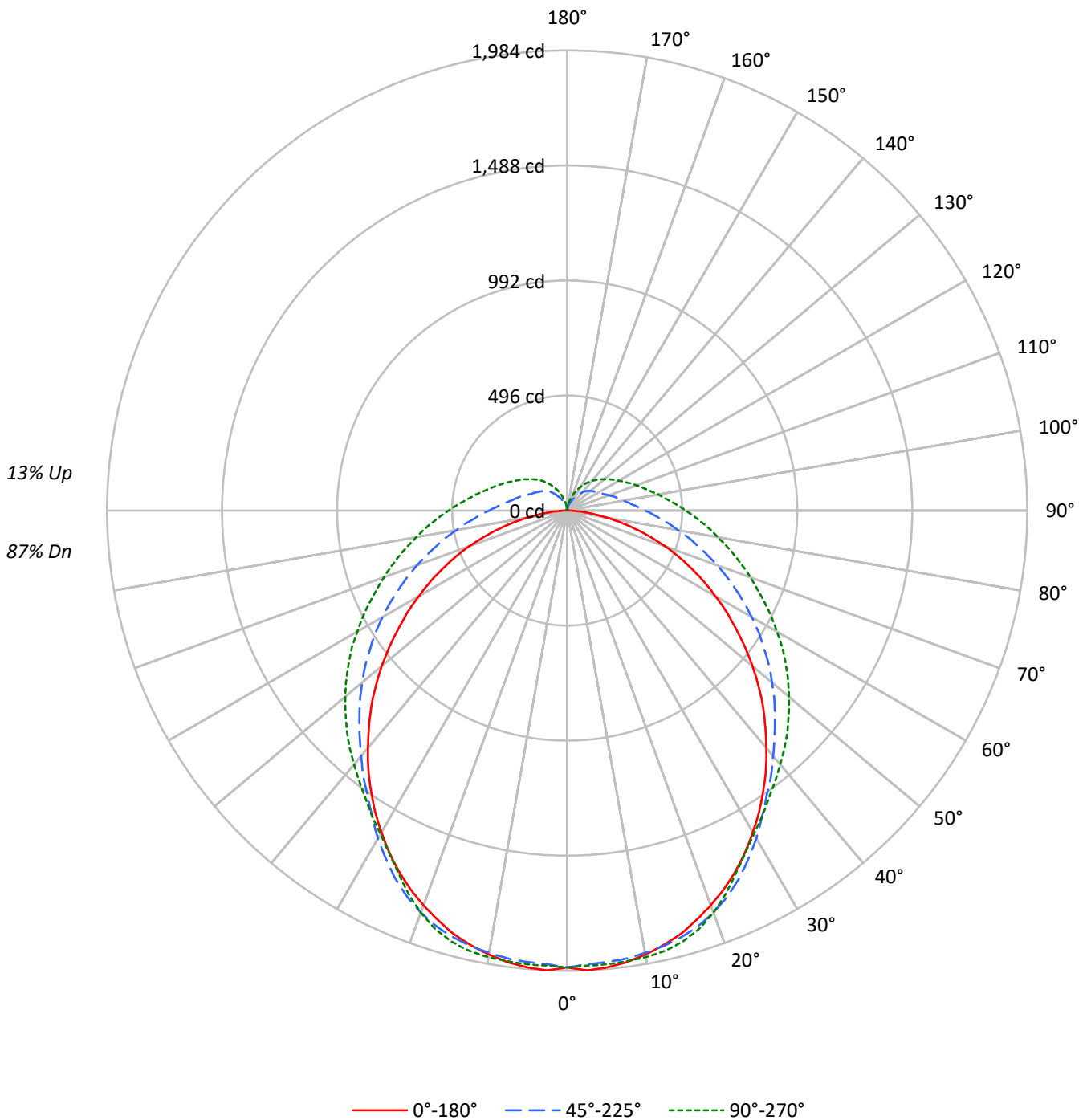
Test Method: LM-79-08  
Report Number: P566827  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNX-81HL-LN-UNV-L935-CD  
Description: 4FT 8100 LUMEN, SNX FIXTURE WITH 3500K, 90CRI LEDS AND LN LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7111.0 lumens  
Efficiency: N/A  
Efficacy: 129.1 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')  
CIE Type: Semi-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	50	30	10	0	
RCR																						
0	116	116	116	116	112	112	112	112	104	104	104	96	96	96	90	90	90	87				
1	104	98	93	89	100	95	90	86	88	84	81	82	79	76	76	74	72	68				
2	94	85	77	71	90	82	75	69	76	70	66	71	66	62	66	62	59	56				
3	85	74	65	58	81	71	63	57	66	60	54	62	56	52	58	53	49	46				
4	78	65	56	49	74	63	55	48	59	52	46	55	49	44	51	46	42	39				
5	71	58	49	42	68	56	48	41	53	45	40	49	43	38	46	41	36	34				
6	66	52	43	37	63	51	42	36	47	40	35	44	38	33	42	36	32	29				
7	61	47	38	32	58	46	38	32	43	36	30	41	34	29	38	33	28	26				
8	57	43	35	29	54	42	34	28	39	32	27	37	31	26	35	29	25	23				
9	53	39	31	26	51	38	31	25	36	29	24	34	28	24	32	27	23	21				
10	50	36	28	23	48	35	28	23	34	27	22	32	26	21	30	25	21	19				

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

	0°	45°	90°
0°	21204	21204	21204
5°	21285	20229	20051
10°	21086	19444	19124
15°	20832	18703	18192
20°	20431	17870	17003
25°	20000	16865	15608
30°	19432	15737	14444
35°	18825	14590	13576
40°	18136	13669	12873
45°	17459	12850	12266
50°	16655	12098	11655
55°	15716	11343	11056
60°	14814	10589	10431
65°	13811	9830	9857
70°	12665	9118	9339
75°	10891	8423	8911
80°	8584	7821	8549
85°	5747	7395	8343



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	187.1	2.6
10°-20°	538.0	7.6
20°-30°	801.2	11.3
30°-40°	945.4	13.3
40°-50°	985.9	13.9
50°-60°	926.5	13.0
60°-70°	782.4	11.0
70°-80°	591.2	8.3
80°-90°	407.5	5.7
90°-100°	285.2	4.0
100°-110°	212.8	3.0
110°-120°	160.4	2.3
120°-130°	119.6	1.7
130°-140°	84.0	1.2
140°-150°	50.8	0.7
150°-160°	24.3	0.3
160°-170°	7.8	0.1
170°-180°	0.9	0.0
0°-30°	1526.3	21.5
0°-40°	2471.7	34.8
0°-60°	4384.1	61.7
0°-90°	6165.2	86.7
90°-120°	658.4	9.3
90°-150°	912.8	12.8
90°-180°	946.0	13.3
0°-180°	7111.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1970	1970	1970	1970	1970	
5°	1977	1974	1954	1969	1964	188
15°	1890	1899	1904	1928	1924	532
25°	1717	1752	1752	1736	1723	790
35°	1474	1529	1500	1512	1515	922
45°	1195	1254	1267	1319	1343	920
55°	887	963	1037	1120	1150	796
65°	591	685	800	905	940	587
75°	303	420	581	703	747	322
85°	69	216	403	535	582	77
90°	1	153	336	465	511	5
95°	1	119	284	408	450	1
105°	2	86	219	318	354	2
115°	2	74	170	253	286	3
125°	4	63	144	207	234	3
135°	4	48	119	169	189	3
145°	5	35	83	129	145	3
155°	5	23	51	82	95	2
165°	6	14	26	36	48	2
175°	6	6	7	7	4	1
180°	4	4	4	4	4	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1969.9	1969.9	1969.9	1969.9	1969.9
2.5°	1984.3	1979.5	1957.8	1969.9	1963.9
5°	1977.1	1973.5	1954.2	1968.7	1963.9
7.5°	1963.9	1962.6	1948.2	1965.1	1960.2
10°	1943.4	1947.0	1936.1	1959.0	1955.4
12.5°	1919.2	1926.5	1922.9	1948.2	1944.6
15°	1890.3	1898.8	1903.6	1927.7	1924.1
17.5°	1851.7	1867.4	1878.3	1897.5	1891.5
20°	1810.7	1832.4	1844.5	1854.1	1844.5
22.5°	1766.1	1795.1	1802.3	1797.5	1787.8
25°	1716.7	1751.7	1751.7	1736.0	1722.7
27.5°	1661.3	1704.7	1692.6	1674.5	1663.7
30°	1601.0	1652.8	1632.3	1611.8	1609.4
32.5°	1540.7	1595.0	1564.8	1560.0	1563.6
35°	1474.4	1528.6	1499.7	1511.8	1515.4
37.5°	1408.1	1462.3	1443.1	1461.1	1472.0
40°	1335.8	1393.6	1381.6	1414.1	1428.6
42.5°	1264.6	1324.9	1323.7	1365.9	1387.6
45°	1194.7	1253.8	1267.0	1318.9	1343.0
47.5°	1118.8	1179.0	1211.6	1271.9	1296.0
50°	1044.0	1109.1	1153.7	1221.2	1249.0
52.5°	966.9	1035.6	1097.1	1171.8	1200.7
55°	887.3	963.2	1036.8	1120.0	1150.1
57.5°	816.2	893.3	980.1	1065.7	1100.7
60°	737.8	823.4	918.6	1009.1	1044.0
62.5°	666.7	754.7	860.8	956.0	993.4
65°	590.7	684.8	800.5	905.4	940.3
67.5°	520.8	617.2	743.8	849.9	888.5
70°	448.5	550.9	688.4	800.5	840.3
72.5°	373.7	482.2	632.9	752.3	793.3
75°	302.6	419.5	581.1	702.8	747.4
77.5°	236.3	359.3	534.1	659.4	702.8
80°	171.2	305.0	484.6	614.8	659.4
82.5°	113.3	258.0	444.9	575.1	622.1
85°	68.7	215.8	402.7	535.3	582.3
87.5°	31.3	180.8	368.9	500.3	546.1
90°	1.2	153.1	336.4	465.3	511.2
92.5°	1.2	133.8	309.8	435.2	479.8
95°	1.2	119.4	284.5	407.5	449.7
97.5°	1.2	109.7	265.2	381.0	421.9
100°	1.2	100.1	245.9	356.8	399.0
102.5°	2.4	91.6	231.5	335.1	374.9
105°	2.4	85.6	219.4	318.3	354.4
107.5°	2.4	82.0	206.2	301.4	335.1
110°	2.4	78.4	191.7	284.5	318.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.4	76.0	180.8	270.0	302.6
115°	2.4	73.5	170.0	253.2	285.7
117.5°	2.4	72.3	164.0	239.9	271.3
120°	3.6	68.7	156.7	227.9	258.0
122.5°	3.6	65.1	149.5	218.2	244.7
125°	3.6	62.7	143.5	207.4	233.9
127.5°	3.6	59.1	137.4	197.7	221.8
130°	3.6	55.5	132.6	188.1	211.0
132.5°	3.6	51.8	126.6	178.4	200.1
135°	3.6	48.2	119.4	168.8	189.3
137.5°	3.6	44.6	112.1	159.1	178.4
140°	3.6	41.0	102.5	149.5	167.6
142.5°	3.6	37.4	92.8	139.8	155.5
145°	4.8	35.0	83.2	129.0	144.7
147.5°	4.8	31.3	73.5	118.1	131.4
150°	4.8	28.9	66.3	107.3	119.4
152.5°	4.8	25.3	59.1	95.2	107.3
155°	4.8	22.9	50.6	82.0	95.2
157.5°	4.8	20.5	43.4	68.7	83.2
160°	4.8	19.3	37.4	56.7	71.1
162.5°	6.0	16.9	31.3	45.8	59.1
165°	6.0	14.5	26.5	36.2	48.2
167.5°	6.0	12.1	21.7	27.7	37.4
170°	6.0	9.6	16.9	19.3	28.9
172.5°	6.0	7.2	12.1	13.3	14.5
175°	6.0	6.0	7.2	7.2	3.6
177.5°	6.0	6.0	4.8	3.6	1.2
180°	3.6	3.6	3.6	3.6	3.6

(END OF REPORT)