

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: P566826

Luminaire Tested: **4SNX-81HL-LN-UNV-L930-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566826  
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-L930-CD  
Description: 4FT 8100 LUMEN, SNX FIXTURE WITH 3000K, 90CRI LEDS AND LN LENS  
Light Source: -  
Ballast/Driver: -

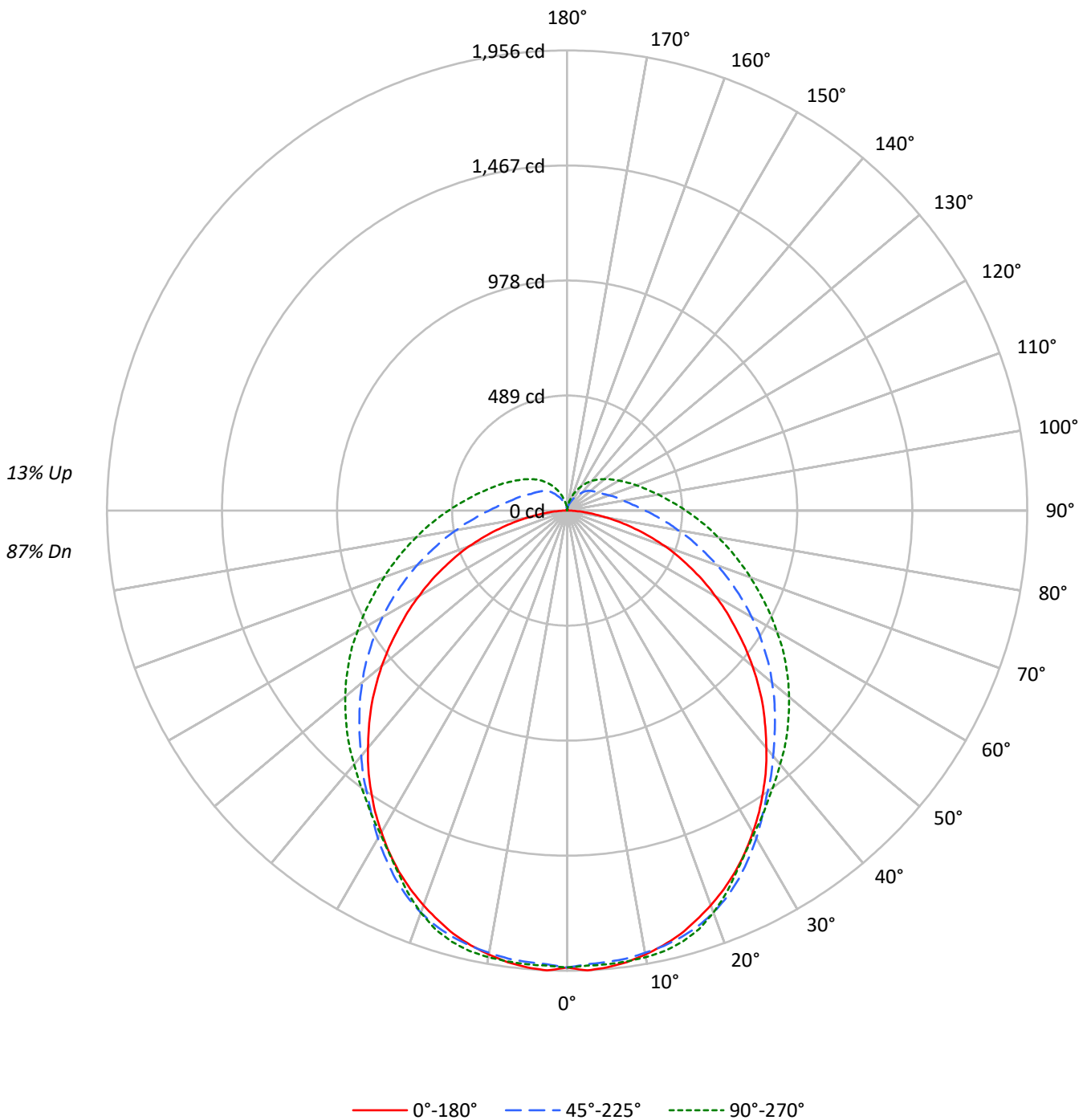
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7011.0 lumens  
Efficiency: N/A  
Efficacy: 127.2 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°	20906	20906	20906
5°	20986	19944	19768
10°	20789	19171	18855
15°	20539	18440	17936
20°	20145	17619	16764
25°	19719	16627	15389
30°	19158	15516	14241
35°	18561	14384	13385
40°	17880	13476	12691
45°	17213	12670	12094
50°	16421	11928	11491
55°	15495	11183	10901
60°	14605	10440	10284
65°	13617	9691	9718
70°	12487	8989	9208
75°	10736	8304	8786
80°	8463	7712	8430
85°	5672	7291	8225



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	184.5	2.6
10°-20°	530.5	7.6
20°-30°	789.9	11.3
30°-40°	932.1	13.3
40°-50°	972.0	13.9
50°-60°	913.5	13.0
60°-70°	771.4	11.0
70°-80°	582.9	8.3
80°-90°	401.8	5.7
90°-100°	281.2	4.0
100°-110°	209.8	3.0
110°-120°	158.2	2.3
120°-130°	118.0	1.7
130°-140°	82.8	1.2
140°-150°	50.1	0.7
150°-160°	23.9	0.3
160°-170°	7.7	0.1
170°-180°	0.9	0.0
0°-30°	1504.9	21.5
0°-40°	2436.9	34.8
0°-60°	4322.4	61.7
0°-90°	6078.5	86.7
90°-120°	649.2	9.3
90°-150°	900.0	12.8
90°-180°	933.0	13.3
0°-180°	7011.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1942	1942	1942	1942	1942	
5°	1949	1946	1927	1941	1936	185
15°	1864	1872	1877	1901	1897	525
25°	1693	1727	1727	1712	1698	779
35°	1454	1507	1479	1490	1494	909
45°	1178	1236	1249	1300	1324	907
55°	875	950	1022	1104	1134	785
65°	582	675	789	893	927	578
75°	298	414	573	693	737	318
85°	68	213	397	528	574	76
90°	1	151	332	459	504	5
95°	1	118	280	402	443	1
105°	2	84	216	314	349	2
115°	2	72	168	250	282	3
125°	4	62	141	204	231	3
135°	4	48	118	166	187	3
145°	5	34	82	127	143	3
155°	5	23	50	81	94	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°	1942.2	1942.2	1942.2	1942.2	1942.2
2.5°	1956.4	1951.7	1930.3	1942.2	1936.2
5°	1949.3	1945.7	1926.7	1941.0	1936.2
7.5°	1936.2	1935.0	1920.8	1937.4	1932.7
10°	1916.0	1919.6	1908.9	1931.5	1927.9
12.5°	1892.3	1899.4	1895.8	1920.8	1917.2
15°	1863.7	1872.0	1876.8	1900.6	1897.0
17.5°	1825.7	1841.1	1851.8	1870.9	1864.9
20°	1785.3	1806.7	1818.6	1828.1	1818.6
22.5°	1741.3	1769.8	1777.0	1772.2	1762.7
25°	1692.6	1727.0	1727.0	1711.6	1698.5
27.5°	1637.9	1680.7	1668.8	1651.0	1640.3
30°	1578.5	1629.6	1609.4	1589.2	1586.8
32.5°	1519.0	1572.5	1542.8	1538.1	1541.6
35°	1453.7	1507.1	1478.6	1490.5	1494.1
37.5°	1388.3	1441.8	1422.8	1440.6	1451.3
40°	1317.0	1374.0	1362.1	1394.2	1408.5
42.5°	1246.8	1306.3	1305.1	1346.7	1368.1
45°	1177.9	1236.1	1249.2	1300.3	1324.1
47.5°	1103.0	1162.5	1194.5	1254.0	1277.7
50°	1029.3	1093.5	1137.5	1204.1	1231.4
52.5°	953.3	1021.0	1081.6	1155.3	1183.8
55°	874.8	949.7	1022.2	1104.2	1133.9
57.5°	804.7	880.8	966.3	1050.7	1085.2
60°	727.4	811.8	905.7	994.9	1029.3
62.5°	657.3	744.1	848.7	942.6	979.4
65°	582.4	675.1	789.2	892.6	927.1
67.5°	513.5	608.6	733.4	838.0	876.0
70°	442.2	543.2	678.7	789.2	828.5
72.5°	368.5	475.4	624.0	741.7	782.1
75°	298.3	413.6	572.9	693.0	736.9
77.5°	233.0	354.2	526.6	650.2	693.0
80°	168.8	300.7	477.8	606.2	650.2
82.5°	111.7	254.4	438.6	567.0	613.3
85°	67.8	212.8	397.0	527.7	574.1
87.5°	30.9	178.3	363.7	493.3	538.4
90°	1.2	151.0	331.6	458.8	504.0
92.5°	1.2	131.9	305.5	429.1	473.1
95°	1.2	117.7	280.5	401.7	443.3
97.5°	1.2	108.2	261.5	375.6	416.0
100°	1.2	98.7	242.5	351.8	393.4
102.5°	2.4	90.3	228.2	330.4	369.7
105°	2.4	84.4	216.3	313.8	349.4
107.5°	2.4	80.8	203.3	297.2	330.4
110°	2.4	77.3	189.0	280.5	313.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.4	74.9	178.3	266.2	298.3
115°	2.4	72.5	167.6	249.6	281.7
117.5°	2.4	71.3	161.7	236.5	267.4
120°	3.6	67.8	154.5	224.6	254.4
122.5°	3.6	64.2	147.4	215.1	241.3
125°	3.6	61.8	141.4	204.4	230.6
127.5°	3.6	58.2	135.5	194.9	218.7
130°	3.6	54.7	130.7	185.4	208.0
132.5°	3.6	51.1	124.8	175.9	197.3
135°	3.6	47.5	117.7	166.4	186.6
137.5°	3.6	44.0	110.5	156.9	175.9
140°	3.6	40.4	101.0	147.4	165.2
142.5°	3.6	36.8	91.5	137.9	153.3
145°	4.8	34.5	82.0	127.2	142.6
147.5°	4.8	30.9	72.5	116.5	129.6
150°	4.8	28.5	65.4	105.8	117.7
152.5°	4.8	25.0	58.2	93.9	105.8
155°	4.8	22.6	49.9	80.8	93.9
157.5°	4.8	20.2	42.8	67.8	82.0
160°	4.8	19.0	36.8	55.9	70.1
162.5°	5.9	16.6	30.9	45.2	58.2
165°	5.9	14.3	26.1	35.7	47.5
167.5°	5.9	11.9	21.4	27.3	36.8
170°	5.9	9.5	16.6	19.0	28.5
172.5°	5.9	7.1	11.9	13.1	14.3
175°	5.9	5.9	7.1	7.1	3.6
177.5°	5.9	5.9	4.8	3.6	1.2
180°	3.6	3.6	3.6	3.6	3.6

(END OF REPORT)