

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: P566817

Luminaire Tested: **4SNX-81HL-LC-UNV-L850-CD**

Issue Date: 9/15/2022



**Test Information**

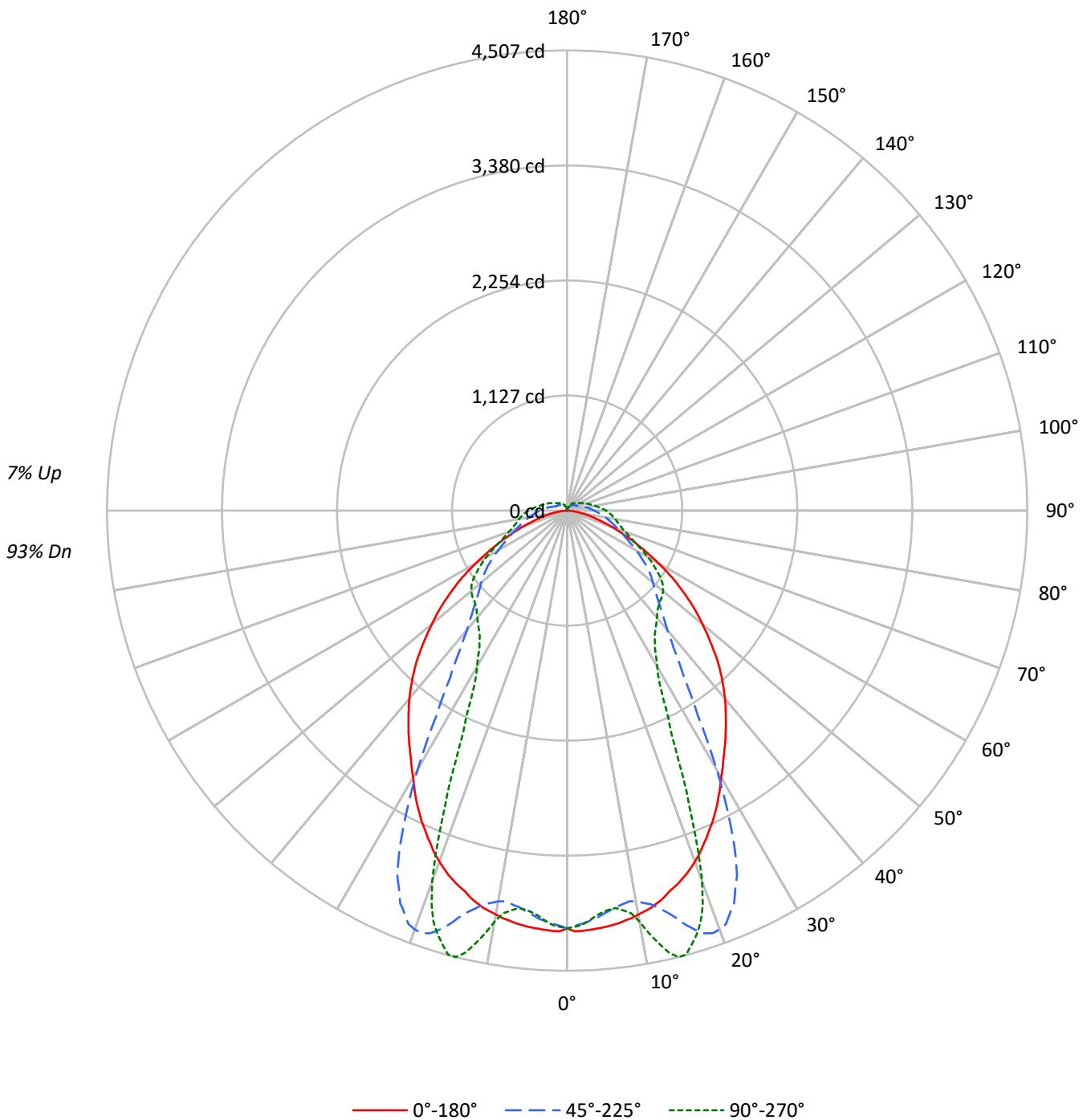
Test Method: LM-79-08  
Report Number: P566817  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2205-663-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNX-81HL-LC-UNV-L850-CD  
Description: 4FT 8100 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LC LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9096.0 lumens  
Efficiency: N/A  
Efficacy: 165.1 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 0.89 / 1.01  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')  
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	50	30	10	0	
RCR																						
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93				
1	107	103	99	95	104	100	96	93	94	91	89	89	87	85	85	83	81	78				
2	99	91	84	79	95	88	83	78	84	79	75	80	76	72	76	72	69	67				
3	91	81	73	67	88	79	72	66	75	69	64	71	66	62	68	64	60	58				
4	84	73	64	58	81	71	63	57	68	61	56	64	59	54	62	57	53	51				
5	78	66	57	51	75	64	56	51	61	55	49	59	53	48	56	51	47	45				
6	72	60	51	45	70	58	51	45	56	49	44	54	48	43	52	46	42	40				
7	67	55	46	41	65	54	46	40	51	45	40	49	43	39	48	42	38	36				
8	63	50	42	37	61	49	42	36	47	41	36	46	40	35	44	39	35	33				
9	59	46	39	34	57	46	38	33	44	37	33	42	36	32	41	36	32	30				
10	56	43	36	31	54	42	35	30	41	34	30	40	34	30	38	33	29	27				

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

	0°	45°	90°
0°	44055	44055	44055
5°	44106	41115	40325
10°	43579	39039	39988
15°	42564	40607	42569
20°	41277	42290	35627
25°	39203	37907	21906
30°	36627	28212	15854
35°	34524	19456	13374
40°	32638	15086	12327
45°	30443	12832	11657
50°	27584	11504	11443
55°	24574	10392	10587
60°	20719	8981	9158
65°	16722	7811	7643
70°	12981	7008	6730
75°	9898	6502	6275
80°	6754	6141	6212
85°	3489	5840	6168



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	380.8	4.2
10°-20°	1163.7	12.8
20°-30°	1567.0	17.2
30°-40°	1483.0	16.3
40°-50°	1308.9	14.4
50°-60°	1063.1	11.7
60°-70°	723.0	7.9
70°-80°	465.3	5.1
80°-90°	309.4	3.4
90°-100°	212.6	2.3
100°-110°	142.7	1.6
110°-120°	100.7	1.1
120°-130°	71.9	0.8
130°-140°	50.7	0.6
140°-150°	31.5	0.3
150°-160°	15.4	0.2
160°-170°	5.4	0.1
170°-180°	0.9	0.0
0°-30°	3111.5	34.2
0°-40°	4594.5	50.5
0°-60°	6966.5	76.6
0°-90°	8464.2	93.1
90°-120°	456.0	5.0
90°-150°	610.2	6.7
90°-180°	632.0	6.9
0°-180°	9096.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4093	4093	4093	4093	4093	
5°	4097	4059	3972	3969	3950	389
15°	3862	3837	4133	4498	4502	1089
25°	3365	3990	3937	2860	2418	1544
35°	2704	3794	2000	1540	1493	1692
45°	2083	2553	1265	1250	1276	1599
55°	1387	1510	950	1061	1101	1239
65°	715	814	636	707	729	718
75°	275	385	449	503	526	299
85°	42	164	318	403	430	55
90°	1	114	265	357	380	2
95°	1	88	224	303	324	1
105°	3	61	147	207	232	3
115°	3	53	108	154	174	3
125°	4	44	93	117	125	4
135°	6	35	76	97	103	4
145°	6	25	54	75	82	4
155°	7	15	33	50	57	3
165°	7	10	18	25	31	2
175°	8	8	8	8	7	1
180°	7	7	7	7	7	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4092.8	4092.8	4092.8	4092.8	4092.8
1°	4120.5	4108.0	4066.4	4088.6	4077.5
2°	4119.1	4098.3	4051.1	4076.1	4062.2
3°	4112.2	4090.0	4028.9	4044.1	4023.3
4°	4105.3	4078.9	4005.3	4005.3	3981.6
5°	4096.9	4059.4	3971.9	3969.1	3949.7
6°	4087.2	4044.1	3942.8	3940.0	3928.9
7°	4073.3	4017.8	3910.8	3930.3	3921.9
8°	4056.6	3992.8	3894.2	3942.8	3955.3
9°	4041.4	3962.2	3874.7	3981.6	3991.4
10°	4016.4	3934.4	3887.2	4059.4	4088.6
11°	3995.5	3910.8	3915.0	4135.8	4223.3
12°	3974.7	3885.8	3941.4	4231.6	4338.6
13°	3940.0	3866.4	3999.7	4335.8	4445.5
14°	3909.4	3851.1	4056.6	4441.3	4506.6
15°	3862.2	3837.2	4133.0	4498.3	4502.4
16°	3830.3	3827.5	4221.9	4502.4	4424.7
17°	3794.2	3823.3	4294.1	4430.2	4338.6
18°	3753.9	3831.7	4353.8	4340.0	4234.4
19°	3708.1	3840.0	4378.8	4215.0	4078.9
20°	3658.1	3852.5	4365.0	4084.4	3865.0
21°	3608.1	3869.2	4338.6	3946.9	3584.5
22.5°	3515.0	3909.4	4213.6	3560.8	3120.6
23°	3488.6	3917.8	4184.4	3440.0	2999.8
24°	3423.4	3952.5	4051.1	3158.1	2680.4
25°	3365.0	3990.0	3937.2	2859.5	2417.9
26°	3299.8	4017.8	3765.0	2584.5	2256.8
27°	3235.9	4034.4	3569.2	2370.7	2076.2
28°	3162.3	4052.5	3356.7	2185.9	1940.1
29°	3092.8	4055.3	3147.0	2038.7	1833.2
30°	3017.8	4041.4	2926.2	1920.7	1766.5
32.5°	2854.0	3965.0	2385.9	1695.7	1599.9
35°	2704.0	3794.2	1999.9	1540.2	1492.9
37.5°	2552.6	3524.7	1729.0	1442.9	1427.7
40°	2404.0	3205.3	1524.9	1365.2	1368.0
42.5°	2247.1	2876.2	1384.6	1301.3	1313.8
45°	2083.2	2552.6	1265.2	1249.9	1276.3
47.5°	1901.2	2256.8	1170.7	1216.6	1256.9
50°	1729.0	1963.7	1097.1	1184.6	1226.3
52.5°	1565.2	1723.5	1030.5	1130.5	1179.1
55°	1387.4	1509.6	949.9	1061.0	1101.3
57.5°	1218.0	1316.6	865.2	974.9	1011.0
60°	1031.9	1126.3	779.1	881.9	916.6
62.5°	863.8	963.8	705.5	788.8	816.6
65°	715.2	813.8	636.1	706.9	729.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	583.3	688.8	579.1	638.8	659.7
70°	459.7	570.8	529.1	583.3	605.5
72.5°	359.7	472.2	487.5	537.5	559.7
75°	275.0	384.7	448.6	502.7	526.3
77.5°	204.2	313.9	412.5	475.0	500.0
80°	134.7	250.0	380.5	450.0	479.1
82.5°	84.7	201.4	348.6	425.0	455.5
85°	41.7	163.9	318.0	402.7	430.5
87.5°	13.9	136.1	290.3	380.5	404.1
90°	1.4	113.9	265.3	356.9	380.5
92.5°	1.4	98.6	244.4	329.1	352.8
95°	1.4	87.5	223.6	302.8	323.6
97.5°	1.4	79.2	204.2	275.0	297.2
100°	1.4	70.8	183.3	248.6	272.2
102.5°	2.8	65.3	165.3	226.4	251.4
105°	2.8	61.1	147.2	206.9	231.9
107.5°	2.8	58.3	131.9	191.7	215.3
110°	2.8	55.6	120.8	177.8	202.8
112.5°	2.8	54.2	113.9	165.3	188.9
115°	2.8	52.8	108.3	154.2	173.6
117.5°	4.2	51.4	104.2	143.0	158.3
120°	4.2	48.6	101.4	133.3	145.8
122.5°	4.2	45.8	97.2	125.0	134.7
125°	4.2	44.4	93.0	116.7	125.0
127.5°	4.2	41.7	88.9	109.7	118.0
130°	5.6	38.9	84.7	104.2	111.1
132.5°	5.6	36.1	80.5	101.4	106.9
135°	5.6	34.7	76.4	97.2	102.8
137.5°	5.6	31.9	72.2	93.0	98.6
140°	5.6	29.2	66.7	87.5	93.0
142.5°	5.6	27.8	61.1	81.9	87.5
145°	5.6	25.0	54.2	75.0	81.9
147.5°	6.9	23.6	48.6	69.4	75.0
150°	6.9	20.8	43.1	63.9	69.4
152.5°	6.9	18.1	37.5	56.9	62.5
155°	6.9	15.3	33.3	50.0	56.9
157.5°	6.9	13.9	29.2	41.7	50.0
160°	6.9	12.5	25.0	36.1	43.1
162.5°	6.9	11.1	22.2	30.6	37.5
165°	6.9	9.7	18.1	25.0	30.6
167.5°	8.3	9.7	15.3	19.4	25.0
170°	8.3	9.7	12.5	15.3	19.4
172.5°	8.3	8.3	9.7	11.1	12.5
175°	8.3	8.3	8.3	8.3	6.9
177.5°	8.3	8.3	8.3	6.9	6.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	6.9	6.9	6.9	6.9	6.9

(END OF REPORT)