

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: P565741

Luminaire Tested: **2SNX-44HL-FDL-UNV-L850-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P565741  
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: 2SNX-44HL-FDL-UNV-L850-CD  
Description: 2FT 4400 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND FDL LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

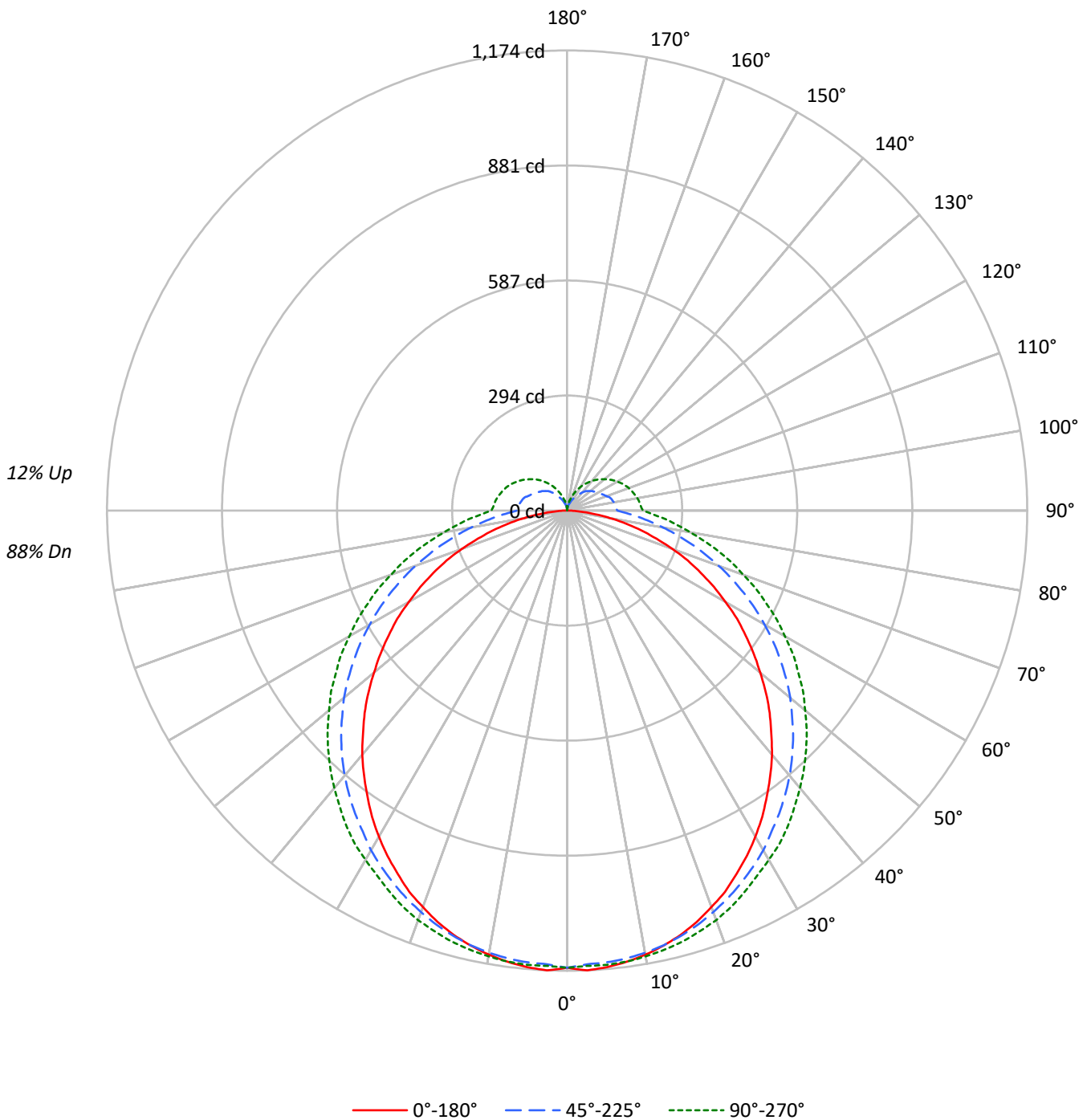
Lumens per Lamp: N/A  
Luminaire Lumens: 4199.0 lumens  
Efficiency: N/A  
Efficacy: 135.0 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 2' x H: 0.04')  
CIE Type: Semi-Direct

Input Watts (W): 31.1  
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	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°	25108	25108	25108
5°	25221	24716	24780
10°	25058	24469	24523
15°	24830	24174	24285
20°	24474	23824	24012
25°	24054	23469	23645
30°	23597	23111	23334
35°	23022	22687	23115
40°	22463	22330	22781
45°	21789	21919	22500
50°	21007	21483	22141
55°	20258	20945	21822
60°	19394	20368	21430
65°	18339	19708	21049
70°	16997	18976	20615
75°	15096	18168	20466
80°	12440	17606	20299
85°	8598	17793	21401



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.7	2.6
10°-20°	318.5	7.6
20°-30°	484.5	11.5
30°-40°	589.1	14.0
40°-50°	623.3	14.8
50°-60°	584.3	13.9
60°-70°	480.7	11.4
70°-80°	332.6	7.9
80°-90°	184.9	4.4
90°-100°	121.8	2.9
100°-110°	109.2	2.6
110°-120°	90.4	2.2
120°-130°	69.9	1.7
130°-140°	49.5	1.2
140°-150°	29.8	0.7
150°-160°	14.3	0.3
160°-170°	4.7	0.1
170°-180°	0.6	0.0
0°-30°	913.8	21.8
0°-40°	1502.9	35.8
0°-60°	2710.5	64.6
0°-90°	3708.6	88.3
90°-120°	321.5	7.7
90°-150°	470.7	11.2
90°-180°	490.0	11.7
0°-180°	4199.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1166	1166	1166	1166	1166	
5°	1169	1167	1157	1166	1163	111
15°	1120	1124	1123	1138	1138	316
25°	1022	1037	1049	1072	1073	471
35°	889	912	943	974	982	556
45°	731	769	815	852	862	563
55°	556	606	664	705	720	498
65°	376	430	497	546	561	373
75°	196	252	326	378	399	207
85°	43	107	181	232	252	50
90°	1	60	128	176	193	3
95°	1	58	124	170	187	1
105°	1	50	116	160	175	1
115°	1	43	98	142	158	1
125°	1	37	84	122	137	1
135°	1	29	70	100	112	1
145°	1	21	49	76	85	1
155°	2	14	30	48	56	1
165°	2	9	16	22	29	1
175°	2	4	5	5	3	0
180°	1	1	1	1	1	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1166.3	1166.3	1166.3	1166.3	1166.3
2.5°	1174.2	1170.6	1158.4	1166.3	1162.7
5°	1169.2	1167.0	1157.0	1166.3	1163.4
7.5°	1161.3	1160.6	1152.7	1163.4	1160.6
10°	1150.5	1151.9	1145.5	1157.0	1154.8
12.5°	1136.8	1139.0	1136.1	1149.1	1147.6
15°	1120.3	1123.9	1123.2	1138.3	1138.3
17.5°	1100.2	1105.2	1108.1	1125.3	1125.3
20°	1076.4	1084.3	1090.1	1108.8	1111.7
22.5°	1052.7	1062.1	1070.7	1090.1	1094.4
25°	1022.5	1036.9	1049.1	1072.1	1072.8
27.5°	993.0	1008.8	1025.4	1047.7	1049.8
30°	960.7	980.8	1000.9	1022.5	1029.0
32.5°	926.2	948.4	970.7	999.5	1008.1
35°	888.8	912.5	943.4	973.6	982.2
37.5°	851.4	878.0	913.9	944.8	952.8
40°	813.3	842.7	883.0	914.6	924.0
42.5°	770.8	806.8	849.9	883.7	894.5
45°	730.6	768.7	815.4	852.1	862.2
47.5°	688.1	728.4	778.7	817.6	829.1
50°	642.8	688.9	742.8	781.6	792.4
52.5°	600.4	647.2	704.0	744.2	759.3
55°	555.8	605.5	663.7	705.4	719.8
57.5°	514.1	561.6	624.1	665.9	683.8
60°	466.7	519.2	581.7	627.0	641.4
62.5°	422.1	475.3	540.0	586.8	603.3
65°	376.1	430.0	496.9	545.8	560.9
67.5°	332.9	386.1	454.4	502.6	522.0
70°	285.5	341.6	411.3	460.9	477.5
72.5°	238.7	297.0	368.2	421.4	440.1
75°	195.6	252.4	326.5	378.2	399.1
77.5°	153.9	211.4	286.2	339.4	357.4
80°	112.2	172.6	248.8	301.3	318.5
82.5°	74.1	137.3	212.8	265.3	284.0
85°	43.1	107.1	181.2	231.5	251.7
87.5°	18.7	81.3	151.7	201.3	217.9
90°	0.7	60.4	128.0	176.2	193.4
92.5°	0.7	59.0	125.1	172.6	189.1
95°	0.7	57.5	124.4	170.4	187.0
97.5°	0.7	56.8	123.0	169.0	184.8
100°	0.7	54.6	120.8	166.1	181.9
102.5°	0.7	51.8	118.6	163.2	178.3
105°	0.7	49.6	116.5	160.4	174.7
107.5°	0.7	47.5	112.9	156.8	171.1
110°	0.7	45.3	107.1	153.2	167.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	44.6	102.8	148.1	163.2
115°	1.4	43.1	98.5	142.4	158.2
117.5°	1.4	42.4	94.9	136.6	153.2
120°	1.4	40.3	91.3	131.6	147.4
122.5°	1.4	38.1	87.7	126.6	142.4
125°	1.4	36.7	84.1	121.5	136.6
127.5°	1.4	34.5	81.3	116.5	130.2
130°	1.4	33.1	77.7	110.7	124.4
132.5°	1.4	30.9	74.1	105.0	117.9
135°	1.4	28.8	70.5	99.9	112.2
137.5°	1.4	25.9	66.2	94.2	105.7
140°	1.4	23.7	60.4	88.4	99.2
142.5°	1.4	22.3	54.6	82.0	92.0
145°	1.4	20.9	48.9	75.5	84.8
147.5°	1.4	19.4	43.9	69.0	77.7
150°	1.4	17.3	38.8	63.3	70.5
152.5°	2.2	15.8	34.5	56.1	63.3
155°	2.2	14.4	30.2	48.2	56.1
157.5°	2.2	12.9	25.9	40.3	48.9
160°	2.2	11.5	22.3	33.1	41.7
162.5°	2.2	10.8	19.4	27.3	35.2
165°	2.2	9.3	16.5	22.3	28.8
167.5°	2.2	7.2	13.7	17.3	23.7
170°	2.2	5.8	10.8	12.2	18.0
172.5°	2.2	4.3	7.9	8.6	9.3
175°	2.2	3.6	5.0	5.0	2.9
177.5°	2.2	2.9	2.9	2.9	1.4
180°	1.4	1.4	1.4	1.4	1.4

(END OF REPORT)