

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: P565693

Luminaire Tested: **2SNX-40HL-FDL-UNV-L850-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P565693  
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-40HL-FDL-UNV-L850-CD  
Description: 2FT 4000 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND FDL LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

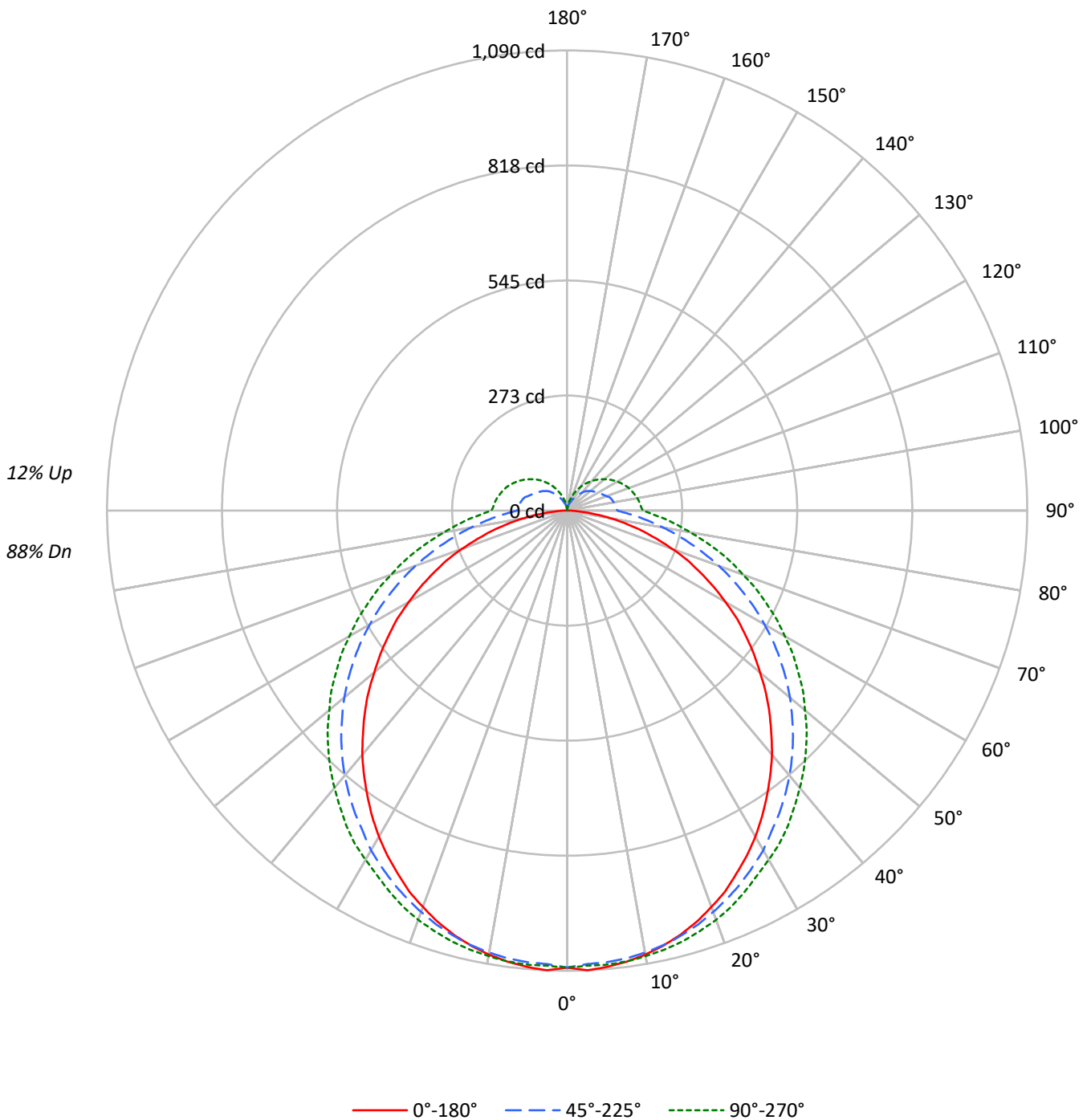
Lumens per Lamp: N/A  
Luminaire Lumens: 3897.0 lumens  
Efficiency: N/A  
Efficacy: 141.5 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 2' x H: 0.04')  
CIE Type: Semi-Direct

Input Watts (W): 27.55  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	23302	23302	23302
5°	23406	22939	22999
10°	23257	22708	22761
15°	23043	22435	22538
20°	22714	22111	22284
25°	22325	21782	21946
30°	21900	21449	21656
35°	21365	21057	21454
40°	20847	20724	21141
45°	20220	20344	20879
50°	19497	19939	20548
55°	18804	19439	20251
60°	17998	18904	19889
65°	17017	18288	19533
70°	15771	17610	19130
75°	14008	16860	18994
80°	11542	16340	18839
85°	7980	16516	19862



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.8	2.6
10°-20°	295.6	7.6
20°-30°	449.7	11.5
30°-40°	546.8	14.0
40°-50°	578.5	14.8
50°-60°	542.2	13.9
60°-70°	446.1	11.4
70°-80°	308.7	7.9
80°-90°	171.6	4.4
90°-100°	113.1	2.9
100°-110°	101.4	2.6
110°-120°	83.9	2.2
120°-130°	64.9	1.7
130°-140°	45.9	1.2
140°-150°	27.7	0.7
150°-160°	13.3	0.3
160°-170°	4.4	0.1
170°-180°	0.5	0.0
0°-30°	848.1	21.8
0°-40°	1394.8	35.8
0°-60°	2515.5	64.6
0°-90°	3441.9	88.3
90°-120°	298.4	7.7
90°-150°	436.9	11.2
90°-180°	455.0	11.7
0°-180°	3897.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1082	1082	1082	1082	1082	
5°	1085	1083	1074	1082	1080	103
15°	1040	1043	1042	1056	1056	293
25°	949	962	974	995	996	437
35°	825	847	876	904	912	516
45°	678	713	757	791	800	523
55°	516	562	616	655	668	462
65°	349	399	461	506	520	346
75°	182	234	303	351	370	193
85°	40	99	168	215	234	46
90°	1	56	119	164	180	3
95°	1	53	116	158	174	1
105°	1	46	108	149	162	1
115°	1	40	91	132	147	1
125°	1	34	78	113	127	1
135°	1	27	65	93	104	1
145°	1	19	45	70	79	1
155°	2	13	28	45	52	1
165°	2	9	15	21	27	1
175°	2	3	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°	1082.4	1082.4	1082.4	1082.4	1082.4
2.5°	1089.8	1086.4	1075.1	1082.4	1079.1
5°	1085.1	1083.1	1073.8	1082.4	1079.8
7.5°	1077.8	1077.1	1069.8	1079.8	1077.1
10°	1067.8	1069.1	1063.1	1073.8	1071.8
12.5°	1055.1	1057.1	1054.4	1066.4	1065.1
15°	1039.7	1043.1	1042.4	1056.4	1056.4
17.5°	1021.0	1025.7	1028.4	1044.4	1044.4
20°	999.0	1006.4	1011.7	1029.0	1031.7
22.5°	977.0	985.7	993.7	1011.7	1015.7
25°	949.0	962.3	973.7	995.0	995.7
27.5°	921.6	936.3	951.6	972.3	974.3
30°	891.6	910.3	928.9	949.0	955.0
32.5°	859.5	880.2	900.9	927.6	935.6
35°	824.8	846.9	875.6	903.6	911.6
37.5°	790.1	814.8	848.2	876.9	884.2
40°	754.8	782.1	819.5	848.9	857.5
42.5°	715.4	748.8	788.8	820.2	830.2
45°	678.0	713.4	756.8	790.8	800.1
47.5°	638.7	676.0	722.7	758.8	769.5
50°	596.6	639.3	689.4	725.4	735.4
52.5°	557.2	600.6	653.3	690.7	704.7
55°	515.9	561.9	616.0	654.7	668.0
57.5°	477.2	521.2	579.3	618.0	634.6
60°	433.1	481.8	539.9	581.9	595.3
62.5°	391.7	441.1	501.2	544.6	559.9
65°	349.0	399.1	461.1	506.5	520.5
67.5°	309.0	358.4	421.8	466.5	484.5
70°	264.9	317.0	381.7	427.8	443.1
72.5°	221.6	275.6	341.7	391.1	408.4
75°	181.5	234.2	303.0	351.0	370.4
77.5°	142.8	196.2	265.6	315.0	331.7
80°	104.1	160.2	230.9	279.6	295.6
82.5°	68.7	127.5	197.5	246.3	263.6
85°	40.0	99.4	168.2	214.9	233.6
87.5°	17.4	75.4	140.8	186.9	202.2
90°	0.7	56.1	118.8	163.5	179.5
92.5°	0.7	54.7	116.1	160.2	175.5
95°	0.7	53.4	115.5	158.2	173.5
97.5°	0.7	52.7	114.1	156.8	171.5
100°	0.7	50.7	112.1	154.2	168.8
102.5°	0.7	48.0	110.1	151.5	165.5
105°	0.7	46.0	108.1	148.8	162.2
107.5°	0.7	44.0	104.8	145.5	158.8
110°	0.7	42.0	99.4	142.1	155.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	41.4	95.4	137.5	151.5
115°	1.3	40.0	91.4	132.1	146.8
117.5°	1.3	39.4	88.1	126.8	142.1
120°	1.3	37.4	84.8	122.1	136.8
122.5°	1.3	35.4	81.4	117.5	132.1
125°	1.3	34.0	78.1	112.8	126.8
127.5°	1.3	32.0	75.4	108.1	120.8
130°	1.3	30.7	72.1	102.8	115.5
132.5°	1.3	28.7	68.7	97.4	109.4
135°	1.3	26.7	65.4	92.8	104.1
137.5°	1.3	24.0	61.4	87.4	98.1
140°	1.3	22.0	56.1	82.1	92.1
142.5°	1.3	20.7	50.7	76.1	85.4
145°	1.3	19.4	45.4	70.1	78.7
147.5°	1.3	18.0	40.7	64.1	72.1
150°	1.3	16.0	36.0	58.7	65.4
152.5°	2.0	14.7	32.0	52.1	58.7
155°	2.0	13.3	28.0	44.7	52.1
157.5°	2.0	12.0	24.0	37.4	45.4
160°	2.0	10.7	20.7	30.7	38.7
162.5°	2.0	10.0	18.0	25.4	32.7
165°	2.0	8.7	15.3	20.7	26.7
167.5°	2.0	6.7	12.7	16.0	22.0
170°	2.0	5.3	10.0	11.3	16.7
172.5°	2.0	4.0	7.3	8.0	8.7
175°	2.0	3.3	4.7	4.7	2.7
177.5°	2.0	2.7	2.7	2.7	1.3
180°	1.3	1.3	1.3	1.3	1.3

(END OF REPORT)