

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: P565691

Luminaire Tested: **2SNX-40HL-FDL-UNV-L835-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P565691  
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-L835-CD  
Description: 2FT 4000 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND FDL LENS  
Light Source: -  
Ballast/Driver: -

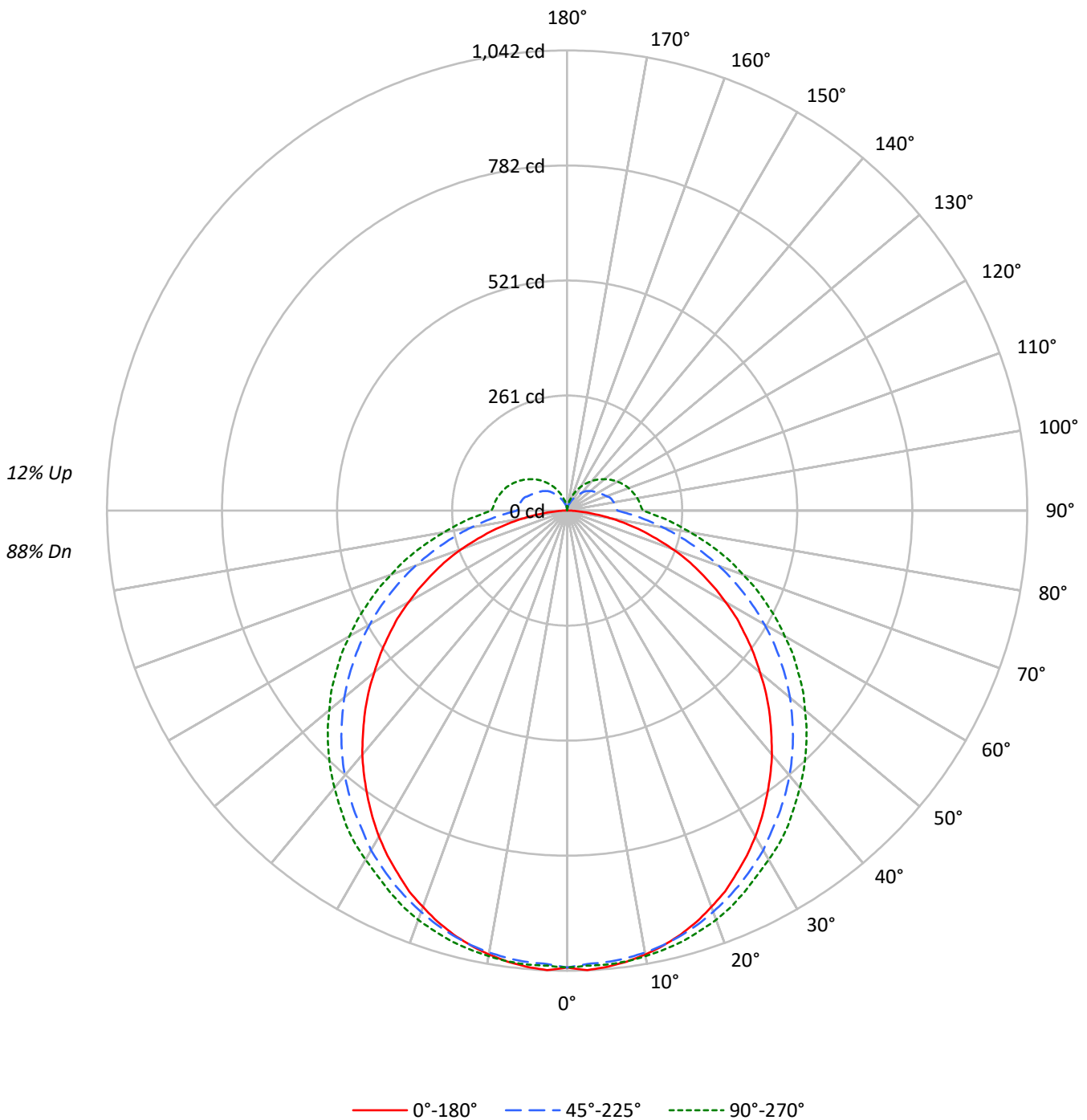
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3725.0 lumens  
Efficiency: N/A  
Efficacy: 135.2 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°	22275	22275	22275
5°	22373	21926	21983
10°	22229	21707	21756
15°	22026	21445	21544
20°	21712	21134	21301
25°	21339	20820	20976
30°	20932	20502	20699
35°	20422	20126	20508
40°	19928	19809	20209
45°	19329	19446	19958
50°	18637	19056	19643
55°	17973	18581	19357
60°	17204	18071	19011
65°	16267	17483	18673
70°	15074	16835	18288
75°	13390	16115	18153
80°	11032	15618	18011
85°	7641	15780	18986



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.2	2.6
10°-20°	282.6	7.6
20°-30°	429.8	11.5
30°-40°	522.6	14.0
40°-50°	552.9	14.8
50°-60°	518.3	13.9
60°-70°	426.4	11.4
70°-80°	295.0	7.9
80°-90°	164.1	4.4
90°-100°	108.1	2.9
100°-110°	96.9	2.6
110°-120°	80.2	2.2
120°-130°	62.0	1.7
130°-140°	43.9	1.2
140°-150°	26.5	0.7
150°-160°	12.7	0.3
160°-170°	4.2	0.1
170°-180°	0.5	0.0
0°-30°	810.6	21.8
0°-40°	1333.3	35.8
0°-60°	2404.5	64.6
0°-90°	3290.0	88.3
90°-120°	285.2	7.7
90°-150°	417.6	11.2
90°-180°	435.0	11.7
0°-180°	3725.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1035	1035	1035	1035	1035	
5°	1037	1035	1026	1035	1032	98
15°	994	997	996	1010	1010	280
25°	907	920	931	951	952	418
35°	788	810	837	864	871	493
45°	648	682	723	756	765	500
55°	493	537	589	626	638	441
65°	334	382	441	484	498	331
75°	174	224	290	336	354	184
85°	38	95	161	205	223	44
90°	1	54	114	156	172	3
95°	1	51	110	151	166	0
105°	1	44	103	142	155	1
115°	1	38	87	126	140	1
125°	1	32	75	108	121	1
135°	1	26	62	89	100	1
145°	1	18	43	67	75	1
155°	2	13	27	43	50	1
165°	2	8	15	20	26	1
175°	2	3	4	4	3	0
180°	1	1	1	1	1	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1034.7	1034.7	1034.7	1034.7	1034.7
2.5°	1041.7	1038.5	1027.6	1034.7	1031.5
5°	1037.2	1035.3	1026.4	1034.7	1032.1
7.5°	1030.2	1029.6	1022.5	1032.1	1029.6
10°	1020.6	1021.9	1016.2	1026.4	1024.5
12.5°	1008.5	1010.4	1007.9	1019.4	1018.1
15°	993.8	997.0	996.4	1009.8	1009.8
17.5°	976.0	980.4	983.0	998.3	998.3
20°	954.9	961.9	967.0	983.6	986.2
22.5°	933.9	942.2	949.8	967.0	970.9
25°	907.1	919.8	930.7	951.1	951.7
27.5°	880.9	895.0	909.6	929.4	931.3
30°	852.2	870.1	887.9	907.1	912.8
32.5°	821.6	841.4	861.2	886.7	894.3
35°	788.4	809.5	836.9	863.7	871.4
37.5°	755.3	778.9	810.8	838.2	845.2
40°	721.5	747.6	783.3	811.4	819.7
42.5°	683.8	715.7	754.0	784.0	793.5
45°	648.1	681.9	723.4	755.9	764.8
47.5°	610.5	646.2	690.8	725.3	735.5
50°	570.3	611.1	658.9	693.4	703.0
52.5°	532.6	574.1	624.5	660.2	673.6
55°	493.1	537.1	588.8	625.8	638.5
57.5°	456.1	498.2	553.7	590.7	606.6
60°	414.0	460.6	516.1	556.2	569.0
62.5°	374.4	421.6	479.1	520.5	535.2
65°	333.6	381.5	440.8	484.2	497.6
67.5°	295.3	342.5	403.1	445.9	463.1
70°	253.2	303.0	364.9	408.9	423.6
72.5°	211.8	263.4	326.6	373.8	390.4
75°	173.5	223.9	289.6	335.5	354.0
77.5°	136.5	187.5	253.9	301.1	317.0
80°	99.5	153.1	220.7	267.3	282.6
82.5°	65.7	121.8	188.8	235.4	252.0
85°	38.3	95.0	160.7	205.4	223.3
87.5°	16.6	72.1	134.6	178.6	193.3
90°	0.6	53.6	113.5	156.3	171.6
92.5°	0.6	52.3	111.0	153.1	167.8
95°	0.6	51.0	110.4	151.2	165.9
97.5°	0.6	50.4	109.1	149.9	163.9
100°	0.6	48.5	107.2	147.4	161.4
102.5°	0.6	45.9	105.3	144.8	158.2
105°	0.6	44.0	103.3	142.2	155.0
107.5°	0.6	42.1	100.1	139.1	151.8
110°	0.6	40.2	95.0	135.9	148.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.6	39.5	91.2	131.4	144.8
115°	1.3	38.3	87.4	126.3	140.3
117.5°	1.3	37.6	84.2	121.2	135.9
120°	1.3	35.7	81.0	116.7	130.8
122.5°	1.3	33.8	77.8	112.3	126.3
125°	1.3	32.5	74.6	107.8	121.2
127.5°	1.3	30.6	72.1	103.3	115.5
130°	1.3	29.3	68.9	98.2	110.4
132.5°	1.3	27.4	65.7	93.1	104.6
135°	1.3	25.5	62.5	88.7	99.5
137.5°	1.3	23.0	58.7	83.6	93.8
140°	1.3	21.1	53.6	78.5	88.0
142.5°	1.3	19.8	48.5	72.7	81.7
145°	1.3	18.5	43.4	67.0	75.3
147.5°	1.3	17.2	38.9	61.2	68.9
150°	1.3	15.3	34.4	56.1	62.5
152.5°	1.9	14.0	30.6	49.8	56.1
155°	1.9	12.8	26.8	42.7	49.8
157.5°	1.9	11.5	23.0	35.7	43.4
160°	1.9	10.2	19.8	29.3	37.0
162.5°	1.9	9.6	17.2	24.2	31.3
165°	1.9	8.3	14.7	19.8	25.5
167.5°	1.9	6.4	12.1	15.3	21.1
170°	1.9	5.1	9.6	10.8	15.9
172.5°	1.9	3.8	7.0	7.7	8.3
175°	1.9	3.2	4.5	4.5	2.6
177.5°	1.9	2.6	2.6	2.6	1.3
180°	1.3	1.3	1.3	1.3	1.3

(END OF REPORT)