

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: P565692

Luminaire Tested: **2SNX-40HL-FDL-UNV-L840-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P565692  
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-L840-CD  
Description: 2FT 4000 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND FDL LENS  
Light Source: -  
Ballast/Driver: -

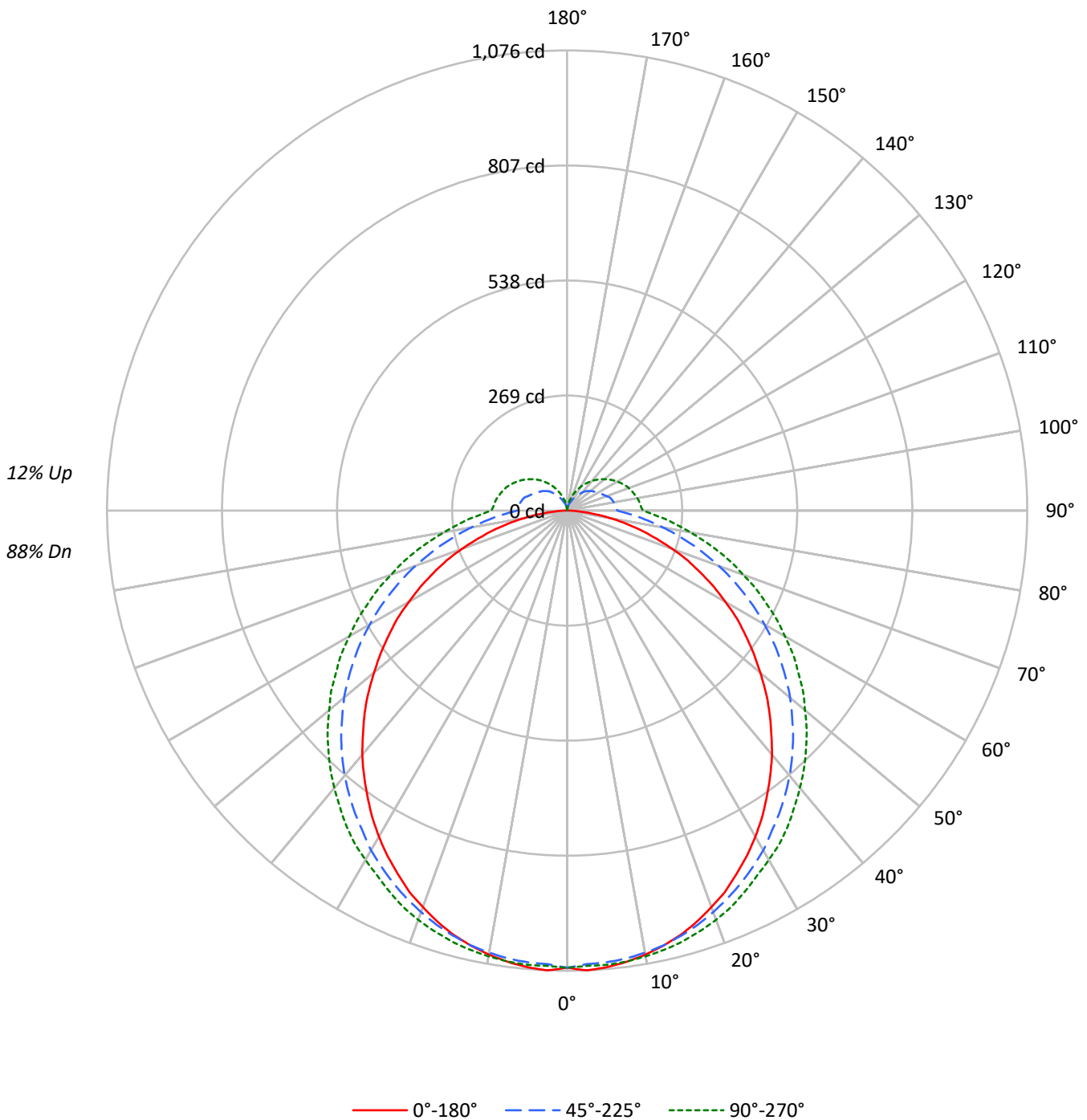
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3848.0 lumens  
Efficiency: N/A  
Efficacy: 139.7 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°	23009	23009	23009
5°	23113	22650	22710
10°	22963	22422	22474
15°	22755	22153	22254
20°	22430	21833	22003
25°	22043	21507	21670
30°	21625	21181	21384
35°	21098	20790	21183
40°	20585	20464	20878
45°	19967	20088	20618
50°	19252	19687	20291
55°	18567	19193	19997
60°	17774	18666	19639
65°	16803	18058	19289
70°	15574	17389	18888
75°	13830	16649	18753
80°	11398	16134	18604
85°	7880	16310	19607



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.5	2.6
10°-20°	291.9	7.6
20°-30°	444.0	11.5
30°-40°	539.9	14.0
40°-50°	571.2	14.8
50°-60°	535.4	13.9
60°-70°	440.5	11.4
70°-80°	304.8	7.9
80°-90°	169.5	4.4
90°-100°	111.7	2.9
100°-110°	100.1	2.6
110°-120°	82.9	2.2
120°-130°	64.1	1.7
130°-140°	45.4	1.2
140°-150°	27.4	0.7
150°-160°	13.1	0.3
160°-170°	4.3	0.1
170°-180°	0.5	0.0
0°-30°	837.4	21.8
0°-40°	1377.3	35.8
0°-60°	2483.9	64.5
0°-90°	3398.6	88.3
90°-120°	294.7	7.7
90°-150°	431.4	11.2
90°-180°	449.0	11.7
0°-180°	3848.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1069	1069	1069	1069	1069	
5°	1072	1070	1060	1069	1066	102
15°	1027	1030	1029	1043	1043	289
25°	937	950	961	982	983	432
35°	814	836	864	892	900	510
45°	670	704	747	781	790	516
55°	509	555	608	646	660	456
65°	345	394	455	500	514	342
75°	179	231	299	347	366	190
85°	40	98	166	212	231	45
90°	1	55	117	161	177	3
95°	1	53	114	156	171	1
105°	1	46	107	147	160	1
115°	1	40	90	130	145	1
125°	1	34	77	111	125	1
135°	1	26	65	92	103	1
145°	1	19	45	69	78	1
155°	2	13	28	44	51	1
165°	2	9	15	20	26	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°	1068.8	1068.8	1068.8	1068.8	1068.8
2.5°	1076.1	1072.8	1061.6	1068.8	1065.5
5°	1071.5	1069.5	1060.3	1068.8	1066.2
7.5°	1064.2	1063.6	1056.3	1066.2	1063.6
10°	1054.3	1055.6	1049.7	1060.3	1058.3
12.5°	1041.8	1043.8	1041.1	1053.0	1051.7
15°	1026.7	1029.9	1029.3	1043.1	1043.1
17.5°	1008.2	1012.8	1015.5	1031.3	1031.3
20°	986.5	993.7	999.0	1016.1	1018.7
22.5°	964.7	973.3	981.2	999.0	1002.9
25°	937.0	950.2	961.4	982.5	983.2
27.5°	910.0	924.5	939.7	960.1	962.1
30°	880.4	898.8	917.3	937.0	943.0
32.5°	848.7	869.2	889.6	915.9	923.9
35°	814.5	836.2	864.5	892.2	900.1
37.5°	780.2	804.6	837.5	865.9	873.1
40°	745.3	772.3	809.2	838.2	846.8
42.5°	706.4	739.3	778.9	809.9	819.7
45°	669.5	704.4	747.3	780.9	790.1
47.5°	630.6	667.5	713.6	749.2	759.8
50°	589.1	631.3	680.7	716.3	726.2
52.5°	550.2	593.1	645.1	682.0	695.9
55°	509.4	554.8	608.2	646.4	659.6
57.5°	471.2	514.6	572.0	610.2	626.7
60°	427.7	475.8	533.1	574.6	587.8
62.5°	386.8	435.6	494.9	537.7	552.9
65°	344.6	394.1	455.3	500.1	514.0
67.5°	305.1	353.9	416.5	460.6	478.4
70°	261.6	313.0	376.9	422.4	437.5
72.5°	218.8	272.1	337.4	386.1	403.3
75°	179.2	231.3	299.2	346.6	365.7
77.5°	141.0	193.7	262.3	311.0	327.5
80°	102.8	158.1	228.0	276.1	291.9
82.5°	67.9	125.9	195.1	243.2	260.3
85°	39.5	98.2	166.1	212.2	230.6
87.5°	17.1	74.5	139.0	184.5	199.7
90°	0.7	55.4	117.3	161.4	177.3
92.5°	0.7	54.0	114.7	158.1	173.3
95°	0.7	52.7	114.0	156.2	171.3
97.5°	0.7	52.1	112.7	154.9	169.4
100°	0.7	50.1	110.7	152.2	166.7
102.5°	0.7	47.4	108.7	149.6	163.4
105°	0.7	45.5	106.8	146.9	160.1
107.5°	0.7	43.5	103.5	143.7	156.8
110°	0.7	41.5	98.2	140.4	153.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	40.9	94.2	135.7	149.6
115°	1.3	39.5	90.3	130.5	145.0
117.5°	1.3	38.9	87.0	125.2	140.4
120°	1.3	36.9	83.7	120.6	135.1
122.5°	1.3	34.9	80.4	116.0	130.5
125°	1.3	33.6	77.1	111.4	125.2
127.5°	1.3	31.6	74.5	106.8	119.3
130°	1.3	30.3	71.2	101.5	114.0
132.5°	1.3	28.3	67.9	96.2	108.1
135°	1.3	26.4	64.6	91.6	102.8
137.5°	1.3	23.7	60.6	86.3	96.9
140°	1.3	21.7	55.4	81.1	90.9
142.5°	1.3	20.4	50.1	75.1	84.3
145°	1.3	19.1	44.8	69.2	77.8
147.5°	1.3	17.8	40.2	63.3	71.2
150°	1.3	15.8	35.6	58.0	64.6
152.5°	2.0	14.5	31.6	51.4	58.0
155°	2.0	13.2	27.7	44.2	51.4
157.5°	2.0	11.9	23.7	36.9	44.8
160°	2.0	10.5	20.4	30.3	38.2
162.5°	2.0	9.9	17.8	25.0	32.3
165°	2.0	8.6	15.2	20.4	26.4
167.5°	2.0	6.6	12.5	15.8	21.7
170°	2.0	5.3	9.9	11.2	16.5
172.5°	2.0	4.0	7.2	7.9	8.6
175°	2.0	3.3	4.6	4.6	2.6
177.5°	2.0	2.6	2.6	2.6	1.3
180°	1.3	1.3	1.3	1.3	1.3

(END OF REPORT)