

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: P566112

Luminaire Tested: **4SNX-20SL-LW-UNV-L840-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566112  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNX-20SL-LW-UNV-L840-CD  
Description: 4FT 2000 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LW LENS  
Light Source: -  
Ballast/Driver: -

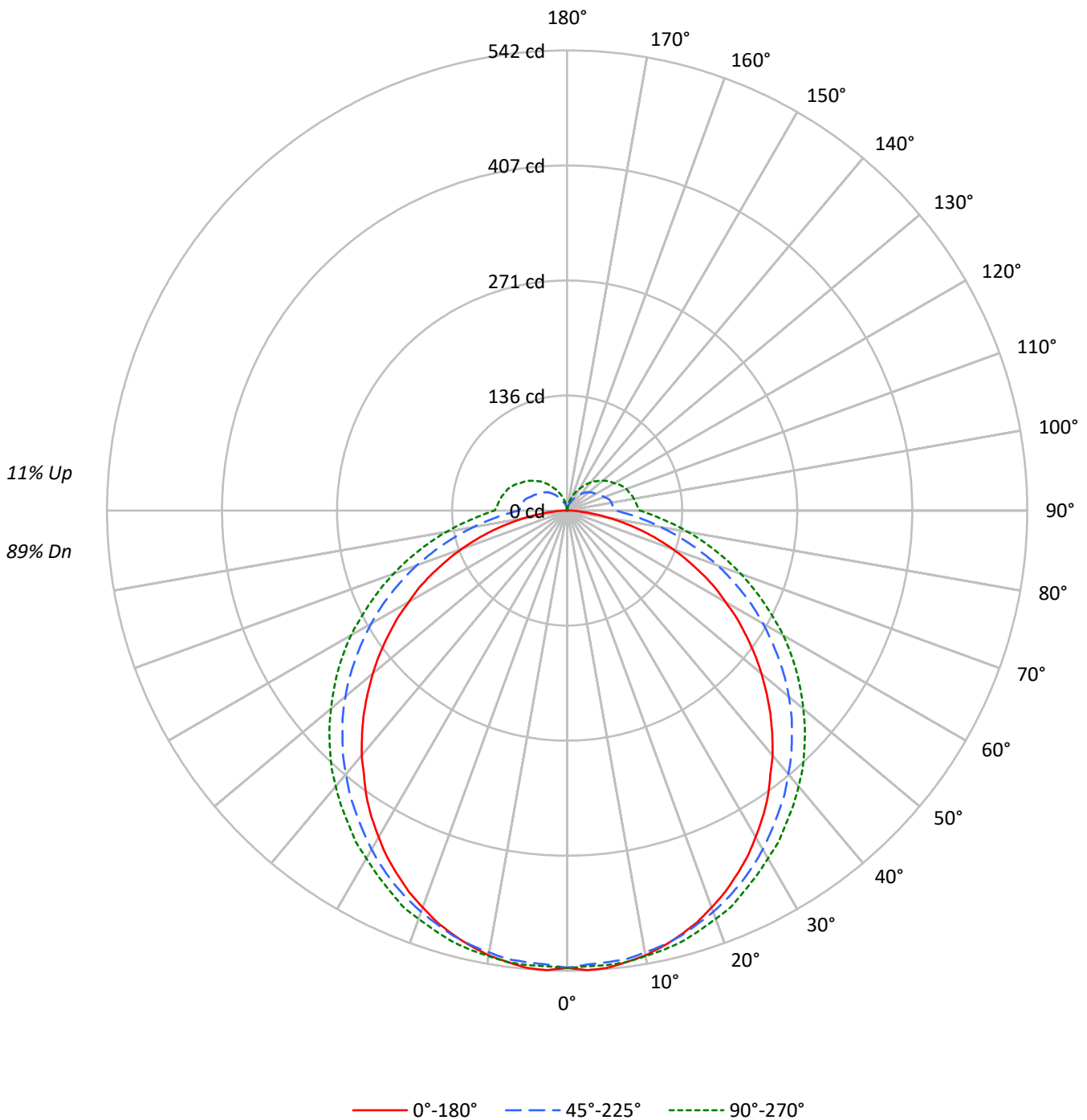
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1917.0 lumens  
Efficiency: N/A  
Efficacy: 158.4 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 12.1  
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	92	92	92	89
1	105	100	95	90	101	96	92	88	90	86	83	84	81	79	79	76	74	71
2	95	86	79	73	91	83	77	71	78	72	68	73	68	64	68	65	61	58
3	86	75	67	60	83	73	65	59	68	61	56	64	58	54	60	55	51	49
4	79	66	57	50	75	64	56	49	60	53	47	57	50	46	53	48	44	41
5	72	59	50	43	69	57	49	42	54	46	41	51	44	39	48	42	38	35
6	67	53	44	37	64	51	43	37	48	41	35	46	39	34	43	38	33	31
7	62	48	39	33	59	47	38	32	44	37	31	42	35	30	39	34	29	27
8	57	44	35	29	55	42	34	29	40	33	28	38	32	27	36	30	26	24
9	53	40	32	26	51	39	31	26	37	30	25	35	29	24	33	28	24	22
10	50	37	29	24	48	36	28	23	34	27	23	32	26	22	31	25	21	20

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

	0°	45°	90°
0°	5796	5796	5796
5°	5821	5528	5487
10°	5770	5308	5212
15°	5702	5094	4966
20°	5612	4873	4718
25°	5511	4661	4477
30°	5390	4443	4245
35°	5259	4223	4029
40°	5110	4010	3821
45°	4948	3795	3610
50°	4765	3575	3388
55°	4563	3328	3170
60°	4325	3072	2939
65°	4075	2795	2677
70°	3730	2499	2418
75°	3275	2157	2145
80°	2562	1809	1871
85°	1673	1489	1590



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.1	2.7
10°-20°	147.0	7.7
20°-30°	223.5	11.7
30°-40°	271.4	14.2
40°-50°	286.7	15.0
50°-60°	268.3	14.0
60°-70°	220.1	11.5
70°-80°	151.4	7.9
80°-90°	82.9	4.3
90°-100°	53.4	2.8
100°-110°	47.9	2.5
110°-120°	39.7	2.1
120°-130°	30.5	1.6
130°-140°	21.5	1.1
140°-150°	12.9	0.7
150°-160°	6.2	0.3
160°-170°	2.0	0.1
170°-180°	0.2	0.0
0°-30°	421.7	22.0
0°-40°	693.1	36.2
0°-60°	1248.1	65.1
0°-90°	1702.6	88.8
90°-120°	141.0	7.4
90°-150°	205.9	10.7
90°-180°	214.0	11.2
0°-180°	1917.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	538	538	538	538	538	
5°	541	540	534	538	537	51
15°	517	520	518	525	525	146
25°	473	478	484	494	494	218
35°	412	422	434	446	450	257
45°	339	354	374	391	395	261
55°	258	279	304	323	330	231
65°	174	198	228	249	255	173
75°	91	116	149	172	180	96
85°	20	48	81	103	111	23
90°	0	27	57	78	86	1
95°	0	26	54	74	82	0
105°	0	21	51	70	77	1
115°	1	19	43	62	70	1
125°	1	16	37	53	60	1
135°	1	12	30	43	49	1
145°	1	9	21	33	37	1
155°	1	6	13	21	24	1
165°	1	3	7	10	12	0
175°	1	1	2	2	1	0
180°	1	1	1	1	1	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	538.5	538.5	538.5	538.5	538.5
2.5°	541.8	540.7	535.2	539.6	537.4
5°	540.7	539.6	534.0	538.5	537.4
7.5°	536.3	536.3	532.9	537.4	536.3
10°	531.8	531.8	528.5	534.0	532.9
12.5°	525.2	526.3	524.1	530.7	529.6
15°	517.4	519.6	518.5	525.2	525.2
17.5°	508.5	510.7	510.7	518.5	518.5
20°	497.4	500.7	503.0	511.8	511.8
22.5°	486.3	490.7	494.1	501.9	505.2
25°	473.0	478.5	484.1	494.1	494.1
27.5°	459.7	466.3	473.0	483.0	484.1
30°	444.1	451.9	460.8	470.8	473.0
32.5°	428.6	438.6	447.4	459.7	463.0
35°	411.9	421.9	434.1	446.3	449.7
37.5°	393.0	405.3	420.8	434.1	437.5
40°	376.4	389.7	405.3	420.8	424.1
42.5°	357.5	371.9	390.8	405.3	410.8
45°	338.6	354.2	374.2	390.8	395.3
47.5°	318.7	336.4	358.6	374.2	379.7
50°	298.7	317.5	340.9	358.6	363.1
52.5°	278.7	298.7	323.1	340.9	346.4
55°	257.6	278.7	304.2	323.1	329.8
57.5°	237.6	258.7	285.3	305.3	312.0
60°	215.4	239.8	266.5	286.5	294.2
62.5°	196.5	218.7	247.6	267.6	274.2
65°	174.3	197.6	227.6	248.7	255.4
67.5°	153.2	177.6	207.6	229.8	236.5
70°	132.1	156.6	188.7	209.8	217.6
72.5°	111.0	136.6	167.7	191.0	198.7
75°	91.0	115.5	148.8	172.1	179.9
77.5°	69.9	96.6	129.9	153.2	162.1
80°	51.1	78.8	112.1	135.5	144.3
82.5°	34.4	62.2	95.5	118.8	127.7
85°	20.0	47.7	81.1	103.3	111.0
87.5°	10.0	36.6	67.7	89.9	97.7
90°	0.0	26.6	56.6	77.7	85.5
92.5°	0.0	25.5	55.5	75.5	83.3
95°	0.0	25.5	54.4	74.4	82.2
97.5°	0.0	24.4	53.3	74.4	81.1
100°	0.0	23.3	53.3	73.3	79.9
102.5°	0.0	22.2	52.2	72.2	78.8
105°	0.0	21.1	51.1	69.9	76.6
107.5°	1.1	21.1	48.9	68.8	75.5
110°	1.1	20.0	46.6	67.7	74.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.1	18.9	44.4	65.5	72.2
115°	1.1	18.9	43.3	62.2	69.9
117.5°	1.1	17.8	41.1	60.0	67.7
120°	1.1	17.8	40.0	57.7	64.4
122.5°	1.1	16.7	37.7	55.5	62.2
125°	1.1	15.5	36.6	53.3	60.0
127.5°	1.1	14.4	35.5	51.1	57.7
130°	1.1	13.3	33.3	48.9	54.4
132.5°	1.1	13.3	32.2	45.5	52.2
135°	1.1	12.2	30.0	43.3	48.9
137.5°	1.1	11.1	27.8	41.1	46.6
140°	1.1	10.0	25.5	38.9	43.3
142.5°	1.1	10.0	23.3	35.5	40.0
145°	1.1	8.9	21.1	33.3	36.6
147.5°	1.1	7.8	18.9	30.0	33.3
150°	1.1	7.8	16.7	26.6	30.0
152.5°	1.1	6.7	14.4	24.4	27.8
155°	1.1	5.6	13.3	21.1	24.4
157.5°	1.1	5.6	11.1	17.8	21.1
160°	1.1	4.4	10.0	14.4	17.8
162.5°	1.1	4.4	8.9	12.2	15.5
165°	1.1	3.3	6.7	10.0	12.2
167.5°	1.1	3.3	5.6	7.8	10.0
170°	1.1	2.2	4.4	5.6	7.8
172.5°	1.1	2.2	3.3	3.3	3.3
175°	1.1	1.1	2.2	2.2	1.1
177.5°	1.1	1.1	1.1	1.1	1.1
180°	1.1	1.1	1.1	1.1	1.1

(END OF REPORT)