

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: P567828

Luminaire Tested: **8SNX-52SL-FDL-UNV-L840-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567828  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2202-547-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNX-52SL-FDL-UNV-L840-CD  
Description: 8FT 5200 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND FDL LENS  
Light Source: -  
Ballast/Driver: -

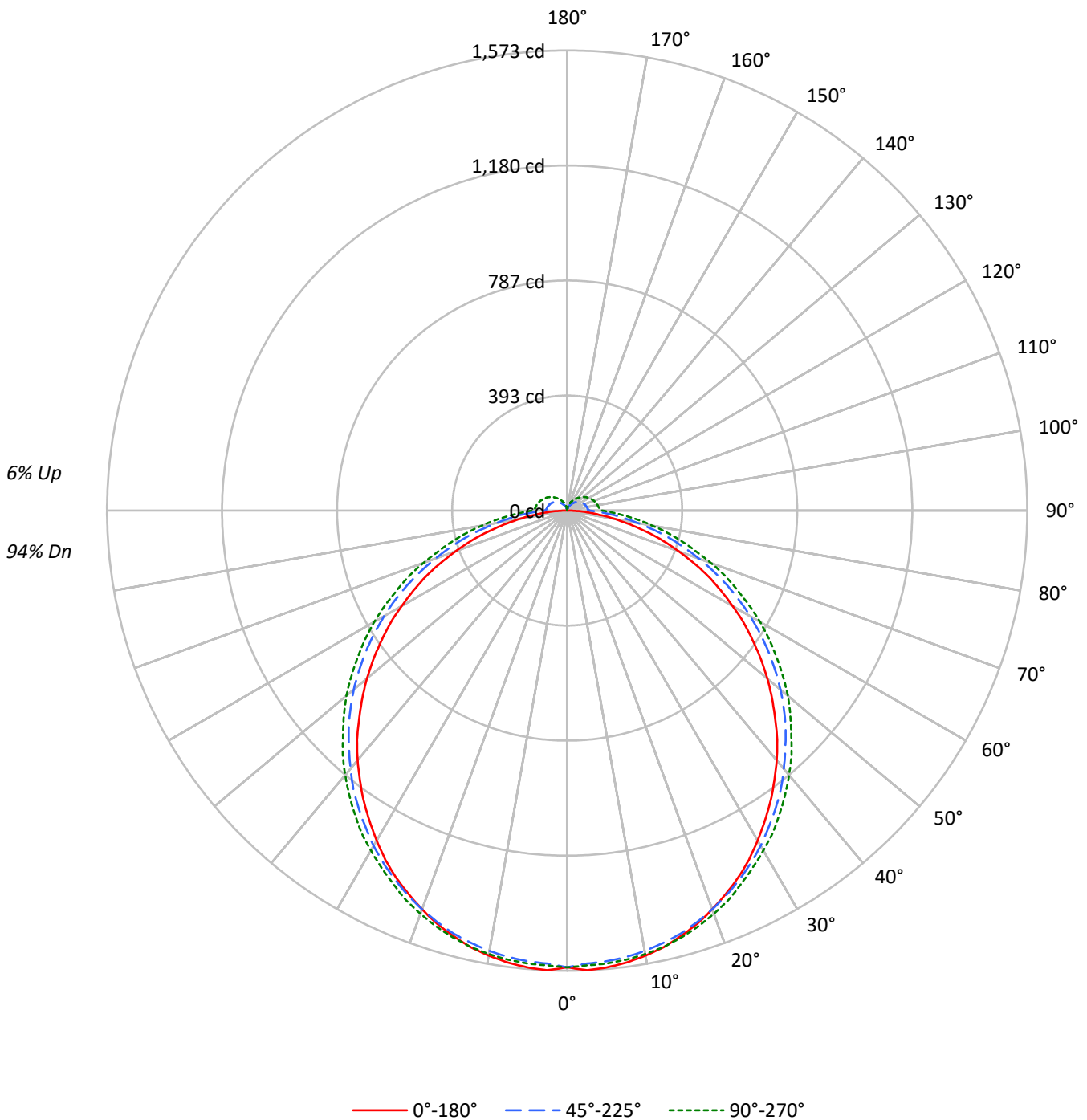
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4962.0 lumens  
Efficiency: N/A  
Efficacy: 151.3 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.28 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.04')  
CIE Type: Direct

Input Watts (W): 32.8  
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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	107	102	97	93	103	99	95	91	93	90	87	88	86	83	84	82	80	77
2	97	88	81	75	93	86	79	74	81	76	71	77	73	69	73	69	66	64
3	88	77	69	62	85	75	67	61	71	65	59	68	62	57	64	60	56	53
4	80	68	59	52	78	66	58	52	63	56	50	60	54	49	57	52	48	45
5	74	61	52	45	71	59	51	44	56	49	43	54	47	42	51	46	41	39
6	68	55	46	39	66	53	45	39	51	43	38	49	42	37	47	41	36	34
7	63	49	41	34	61	48	40	34	46	39	33	44	38	33	43	37	32	30
8	59	45	36	31	57	44	36	30	42	35	30	41	34	29	39	33	29	27
9	55	41	33	27	53	40	33	27	39	32	27	37	31	26	36	30	26	24
10	51	38	30	25	50	37	30	25	36	29	24	35	28	24	33	28	24	22

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

	0°	45°	90°
0°	8403	8403	8403
5°	8465	8267	8277
10°	8435	8180	8173
15°	8375	8080	8056
20°	8293	7957	7919
25°	8199	7822	7757
30°	8068	7685	7607
35°	7938	7523	7450
40°	7794	7345	7274
45°	7611	7168	7068
50°	7436	6966	6881
55°	7218	6716	6620
60°	6975	6431	6363
65°	6718	6089	6010
70°	6271	5660	5643
75°	5736	5154	5205
80°	4946	4482	4718
85°	3992	3905	4147



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.1	3.0
10°-20°	424.9	8.6
20°-30°	644.0	13.0
30°-40°	777.4	15.7
40°-50°	811.8	16.4
50°-60°	745.8	15.0
60°-70°	589.7	11.9
70°-80°	373.2	7.5
80°-90°	160.4	3.2
90°-100°	70.6	1.4
100°-110°	63.2	1.3
110°-120°	53.4	1.1
120°-130°	41.6	0.8
130°-140°	28.8	0.6
140°-150°	17.3	0.3
150°-160°	8.4	0.2
160°-170°	2.9	0.1
170°-180°	0.4	0.0
0°-30°	1217.0	24.5
0°-40°	1994.3	40.2
0°-60°	3551.9	71.6
0°-90°	4675.3	94.2
90°-120°	187.2	3.8
90°-150°	274.9	5.5
90°-180°	287.0	5.8
0°-180°	4962.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1561	1561	1561	1561	1561	
5°	1568	1563	1546	1560	1554	149
15°	1505	1505	1497	1513	1510	425
25°	1384	1390	1392	1410	1408	637
35°	1213	1227	1242	1262	1266	758
45°	1005	1030	1056	1076	1083	776
55°	775	807	840	867	873	693
65°	533	563	603	631	641	525
75°	281	315	360	391	406	298
85°	68	105	151	184	195	76
90°	4	38	77	108	120	6
95°	1	32	70	98	109	1
105°	1	30	66	92	102	1
115°	1	26	60	84	92	1
125°	2	23	50	72	80	2
135°	2	18	40	57	64	1
145°	2	13	28	43	47	1
155°	2	9	18	27	32	1
165°	3	6	10	13	18	1
175°	3	4	4	4	3	0
180°	3	3	3	3	3	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1561.4	1561.4	1561.4	1561.4	1561.4
2.5°	1572.9	1567.6	1550.0	1562.3	1556.2
5°	1567.6	1563.2	1546.5	1559.7	1554.4
7.5°	1557.9	1554.4	1539.5	1553.5	1548.3
10°	1544.8	1542.1	1528.9	1543.0	1539.5
12.5°	1528.1	1527.2	1514.0	1529.8	1527.2
15°	1505.2	1505.2	1497.3	1513.1	1510.5
17.5°	1480.6	1481.5	1475.3	1492.0	1490.3
20°	1450.7	1455.1	1450.7	1468.3	1466.5
22.5°	1418.2	1424.4	1422.6	1440.2	1441.1
25°	1384.0	1390.1	1391.9	1410.3	1407.7
27.5°	1346.2	1355.8	1359.3	1376.0	1375.2
30°	1302.2	1315.4	1323.3	1337.4	1341.8
32.5°	1257.4	1273.2	1282.9	1302.2	1307.5
35°	1212.6	1226.7	1242.5	1261.8	1266.2
37.5°	1163.4	1179.2	1200.3	1218.8	1224.0
40°	1114.2	1131.8	1152.0	1172.2	1180.1
42.5°	1063.2	1081.7	1103.6	1127.4	1135.3
45°	1005.2	1029.8	1056.2	1076.4	1083.4
47.5°	949.9	977.1	1005.2	1027.2	1035.1
50°	893.6	922.6	952.5	972.7	985.0
52.5°	834.8	866.4	896.3	921.8	929.7
55°	775.0	806.6	840.0	867.3	873.4
57.5°	717.0	747.8	781.2	806.6	818.9
60°	653.8	687.1	723.2	748.7	761.8
62.5°	592.2	624.8	663.4	690.7	701.2
65°	533.4	563.2	602.8	630.9	640.6
67.5°	468.3	502.6	540.4	572.9	585.2
70°	404.2	436.7	479.8	510.5	522.8
72.5°	344.4	376.1	419.1	449.9	461.3
75°	281.2	314.6	360.3	391.0	406.0
77.5°	220.6	257.5	301.4	334.8	351.5
80°	164.3	196.8	244.3	281.2	296.1
82.5°	111.6	146.7	195.9	230.2	246.9
85°	68.5	105.4	151.1	183.6	195.1
87.5°	32.5	67.7	109.8	141.5	155.5
90°	4.4	37.8	77.3	108.1	119.5
92.5°	0.9	32.5	71.2	100.2	110.7
95°	0.9	32.5	70.3	98.4	109.0
97.5°	0.9	31.6	69.4	97.5	107.2
100°	0.9	30.8	68.5	95.8	106.3
102.5°	0.9	30.8	66.8	94.0	103.7
105°	0.9	29.9	65.9	92.3	101.9
107.5°	0.9	29.0	64.1	90.5	100.2
110°	0.9	27.2	63.3	87.9	97.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.9	26.4	61.5	86.1	94.9
115°	0.9	25.5	59.8	83.5	92.3
117.5°	0.9	24.6	57.1	80.8	89.6
120°	1.8	24.6	55.4	78.2	86.1
122.5°	1.8	23.7	52.7	74.7	82.6
125°	1.8	22.8	50.1	72.1	80.0
127.5°	1.8	22.0	47.4	68.5	75.6
130°	1.8	20.2	45.7	65.0	72.1
132.5°	1.8	19.3	43.1	60.6	67.7
135°	1.8	17.6	40.4	57.1	64.1
137.5°	1.8	16.7	37.8	53.6	59.8
140°	1.8	15.8	34.3	50.1	56.2
142.5°	1.8	14.1	31.6	46.6	51.8
145°	1.8	13.2	28.1	43.1	47.4
147.5°	1.8	11.4	25.5	39.5	43.9
150°	1.8	10.5	22.8	36.0	40.4
152.5°	1.8	9.7	20.2	31.6	36.0
155°	1.8	8.8	18.5	27.2	32.5
157.5°	1.8	7.9	15.8	23.7	29.0
160°	2.6	7.0	14.1	20.2	24.6
162.5°	2.6	6.2	11.4	16.7	22.0
165°	2.6	6.2	9.7	13.2	18.5
167.5°	2.6	5.3	7.9	10.5	14.9
170°	2.6	4.4	7.0	7.9	11.4
172.5°	2.6	3.5	5.3	5.3	6.2
175°	2.6	3.5	4.4	4.4	2.6
177.5°	2.6	2.6	2.6	2.6	1.8
180°	2.6	2.6	2.6	2.6	2.6

(END OF REPORT)