

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: P567826

Luminaire Tested: **8SNX-52SL-FDL-UNV-L830-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567826  
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-L830-CD  
Description: 8FT 5200 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND FDL LENS  
Light Source: -  
Ballast/Driver: -

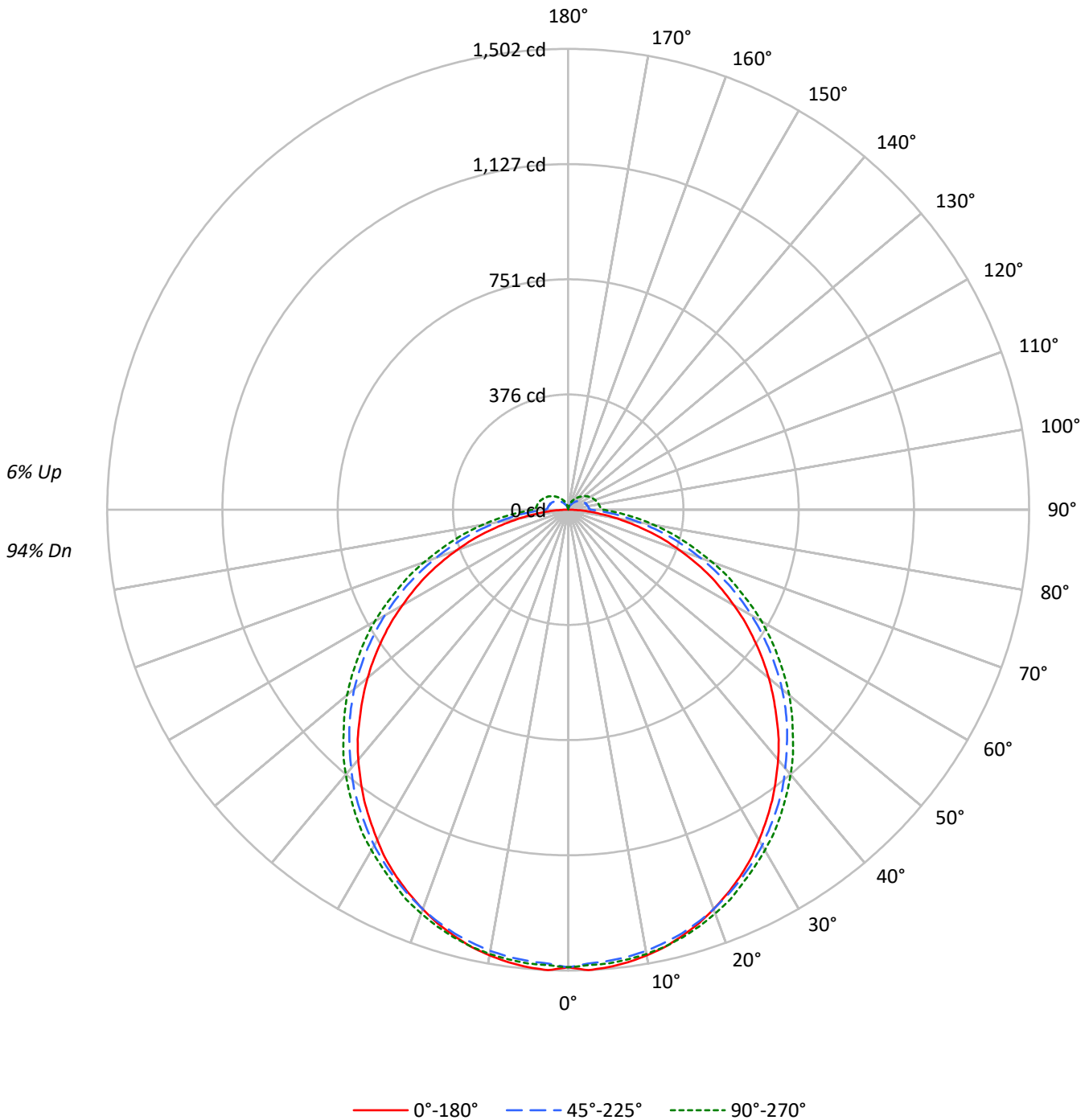
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4739.0 lumens  
Efficiency: N/A  
Efficacy: 144.5 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°	8026	8026	8026
5°	8084	7896	7905
10°	8055	7813	7806
15°	7999	7716	7694
20°	7920	7599	7563
25°	7830	7470	7408
30°	7706	7339	7265
35°	7581	7185	7115
40°	7443	7014	6947
45°	7270	6845	6750
50°	7102	6653	6572
55°	6894	6415	6323
60°	6661	6142	6077
65°	6415	5816	5740
70°	5988	5405	5389
75°	5477	4923	4970
80°	4723	4280	4506
85°	3817	3730	3960



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.4	3.0
10°-20°	405.8	8.6
20°-30°	615.0	13.0
30°-40°	742.4	15.7
40°-50°	775.3	16.4
50°-60°	712.3	15.0
60°-70°	563.2	11.9
70°-80°	356.5	7.5
80°-90°	153.2	3.2
90°-100°	67.4	1.4
100°-110°	60.4	1.3
110°-120°	51.0	1.1
120°-130°	39.7	0.8
130°-140°	27.5	0.6
140°-150°	16.5	0.3
150°-160°	8.1	0.2
160°-170°	2.8	0.1
170°-180°	0.4	0.0
0°-30°	1162.3	24.5
0°-40°	1904.7	40.2
0°-60°	3392.3	71.6
0°-90°	4465.2	94.2
90°-120°	178.8	3.8
90°-150°	262.5	5.5
90°-180°	274.0	5.8
0°-180°	4739.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1491	1491	1491	1491	1491	
5°	1497	1493	1477	1490	1485	142
15°	1438	1438	1430	1445	1443	406
25°	1322	1328	1329	1347	1344	609
35°	1158	1172	1187	1205	1209	724
45°	960	984	1009	1028	1035	742
55°	740	770	802	828	834	662
65°	509	538	576	603	612	502
75°	268	300	344	373	388	285
85°	66	101	144	175	186	72
90°	4	36	74	103	114	6
95°	1	31	67	94	104	1
105°	1	28	63	88	97	1
115°	1	24	57	80	88	1
125°	2	22	48	69	76	2
135°	2	17	39	54	61	1
145°	2	13	27	41	45	1
155°	2	8	18	26	31	1
165°	2	6	9	13	18	1
175°	2	3	4	4	2	0
180°	2	2	2	2	2	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1491.3	1491.3	1491.3	1491.3	1491.3
2.5°	1502.2	1497.1	1480.4	1492.1	1486.2
5°	1497.1	1493.0	1477.0	1489.6	1484.6
7.5°	1487.9	1484.6	1470.3	1483.7	1478.7
10°	1475.3	1472.8	1460.2	1473.7	1470.3
12.5°	1459.4	1458.5	1446.0	1461.1	1458.5
15°	1437.6	1437.6	1430.0	1445.1	1442.6
17.5°	1414.1	1414.9	1409.0	1425.0	1423.3
20°	1385.5	1389.7	1385.5	1402.3	1400.6
22.5°	1354.5	1360.4	1358.7	1375.5	1376.3
25°	1321.8	1327.6	1329.3	1346.9	1344.4
27.5°	1285.7	1294.9	1298.3	1314.2	1313.4
30°	1243.7	1256.3	1263.8	1277.3	1281.5
32.5°	1200.9	1216.0	1225.2	1243.7	1248.7
35°	1158.1	1171.5	1186.6	1205.1	1209.3
37.5°	1111.1	1126.2	1146.4	1164.0	1169.0
40°	1064.1	1080.9	1100.2	1119.5	1127.1
42.5°	1015.4	1033.1	1054.0	1076.7	1084.3
45°	960.1	983.6	1008.7	1028.0	1034.7
47.5°	907.2	933.2	960.1	981.0	988.6
50°	853.5	881.2	909.7	929.0	940.8
52.5°	797.2	827.5	856.0	880.3	887.9
55°	740.2	770.4	802.3	828.3	834.2
57.5°	684.8	714.2	746.1	770.4	782.1
60°	624.4	656.3	690.7	715.0	727.6
62.5°	565.6	596.7	633.6	659.6	669.7
65°	509.4	537.9	575.7	602.6	611.8
67.5°	447.3	480.0	516.1	547.2	558.9
70°	386.0	417.1	458.2	487.6	499.3
72.5°	329.0	359.2	400.3	429.7	440.6
75°	268.5	300.4	344.1	373.4	387.7
77.5°	210.6	245.9	287.8	319.7	335.7
80°	156.9	188.0	233.3	268.5	282.8
82.5°	106.6	140.1	187.1	219.9	235.8
85°	65.5	100.7	144.3	175.4	186.3
87.5°	31.1	64.6	104.9	135.1	148.5
90°	4.2	36.1	73.9	103.2	114.1
92.5°	0.8	31.1	68.0	95.7	105.7
95°	0.8	31.1	67.1	94.0	104.1
97.5°	0.8	30.2	66.3	93.2	102.4
100°	0.8	29.4	65.5	91.5	101.5
102.5°	0.8	29.4	63.8	89.8	99.0
105°	0.8	28.5	62.9	88.1	97.3
107.5°	0.8	27.7	61.3	86.4	95.7
110°	0.8	26.0	60.4	83.9	93.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	25.2	58.7	82.2	90.6
115°	0.8	24.3	57.1	79.7	88.1
117.5°	0.8	23.5	54.5	77.2	85.6
120°	1.7	23.5	52.9	74.7	82.2
122.5°	1.7	22.7	50.4	71.3	78.9
125°	1.7	21.8	47.8	68.8	76.4
127.5°	1.7	21.0	45.3	65.5	72.2
130°	1.7	19.3	43.6	62.1	68.8
132.5°	1.7	18.5	41.1	57.9	64.6
135°	1.7	16.8	38.6	54.5	61.3
137.5°	1.7	15.9	36.1	51.2	57.1
140°	1.7	15.1	32.7	47.8	53.7
142.5°	1.7	13.4	30.2	44.5	49.5
145°	1.7	12.6	26.9	41.1	45.3
147.5°	1.7	10.9	24.3	37.8	42.0
150°	1.7	10.1	21.8	34.4	38.6
152.5°	1.7	9.2	19.3	30.2	34.4
155°	1.7	8.4	17.6	26.0	31.1
157.5°	1.7	7.6	15.1	22.7	27.7
160°	2.5	6.7	13.4	19.3	23.5
162.5°	2.5	5.9	10.9	15.9	21.0
165°	2.5	5.9	9.2	12.6	17.6
167.5°	2.5	5.0	7.6	10.1	14.3
170°	2.5	4.2	6.7	7.6	10.9
172.5°	2.5	3.4	5.0	5.0	5.9
175°	2.5	3.4	4.2	4.2	2.5
177.5°	2.5	2.5	2.5	2.5	1.7
180°	2.5	2.5	2.5	2.5	2.5

(END OF REPORT)