

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: P567848

Luminaire Tested: **8SNX-52SL-LN-UNV-L940-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567848  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNX-52SL-LN-UNV-L940-CD  
Description: 8FT 5200 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND LN LENS  
Light Source: -  
Ballast/Driver: -

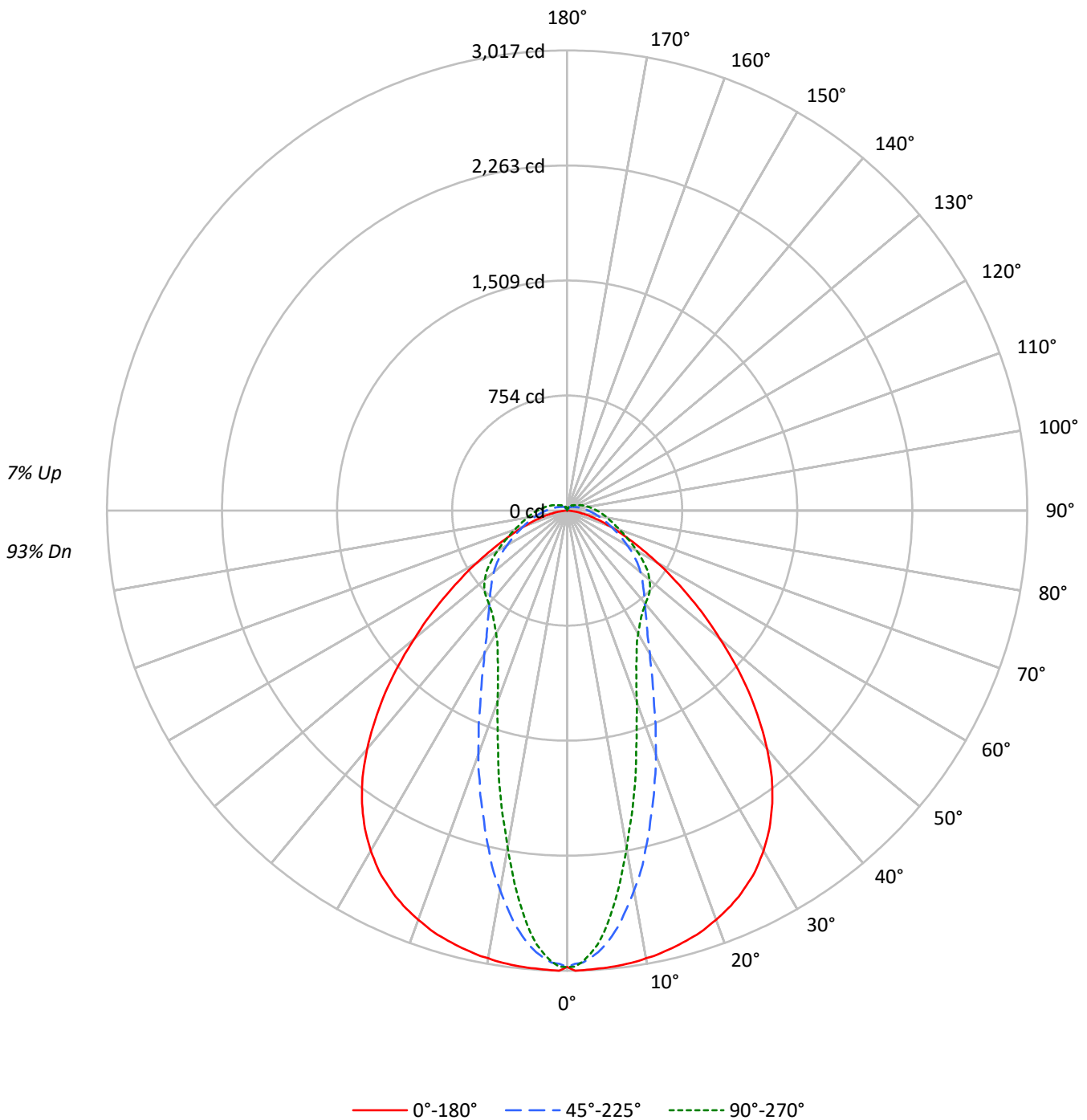
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4770.1 lumens  
Efficiency: N/A  
Efficacy: 145.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 0.56 / 0.78  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')  
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	50	30	10	0	
RCR																						
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93				
1	107	103	99	95	104	100	96	93	94	91	88	89	87	85	85	83	81	78				
2	99	91	84	79	95	88	82	77	84	79	75	79	75	72	76	72	69	67				
3	91	81	73	67	88	79	72	66	75	69	64	71	66	62	68	64	60	58				
4	84	73	64	58	81	71	63	57	67	61	56	64	59	54	62	57	53	51				
5	78	66	57	51	75	64	56	51	61	55	49	59	53	48	56	51	47	45				
6	72	60	51	45	70	59	51	45	56	49	44	54	48	43	52	46	42	40				
7	67	55	47	41	65	54	46	41	52	45	40	50	44	39	48	42	38	36				
8	63	51	43	37	61	50	42	37	48	41	36	46	40	36	44	39	35	33				
9	59	47	39	34	58	46	39	34	44	38	33	43	37	33	41	36	32	30				
10	56	44	36	31	54	43	36	31	41	35	31	40	34	30	39	34	30	28				

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

	0°	45°	90°
0°	16105	16105	16105
5°	16218	14820	14165
10°	16225	12722	10990
15°	16248	10389	8237
20°	16228	8284	6164
25°	16114	6498	4892
30°	15812	5265	4173
35°	15185	4460	3796
40°	14085	3942	3593
45°	12562	3611	3482
50°	10681	3327	3289
55°	8816	3018	3004
60°	7091	2659	2635
65°	5547	2338	2293
70°	4354	2072	2028
75°	3425	1866	1848
80°	2495	1712	1718
85°	1496	1601	1648



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	265.0	5.6
10°-20°	621.1	13.0
20°-30°	737.3	15.5
30°-40°	741.8	15.6
40°-50°	689.6	14.5
50°-60°	567.8	11.9
60°-70°	400.1	8.4
70°-80°	261.4	5.5
80°-90°	166.9	3.5
90°-100°	109.5	2.3
100°-110°	74.3	1.6
110°-120°	50.9	1.1
120°-130°	35.2	0.7
130°-140°	23.7	0.5
140°-150°	14.6	0.3
150°-160°	7.6	0.2
160°-170°	2.7	0.1
170°-180°	0.5	0.0
0°-30°	1623.5	34.0
0°-40°	2365.3	49.6
0°-60°	3622.7	75.9
0°-90°	4451.1	93.3
90°-120°	234.7	4.9
90°-150°	308.2	6.5
90°-180°	319.0	6.7
0°-180°	4770.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2992	2992	2992	2992	2992	
5°	3007	2967	2860	2805	2775	286
15°	2932	2620	2107	1842	1742	828
25°	2740	2025	1342	1127	1080	1261
35°	2345	1370	910	852	848	1458
45°	1685	902	705	742	762	1293
55°	968	592	545	605	625	874
65°	455	358	375	422	438	462
75°	178	185	252	298	310	192
85°	30	85	170	220	230	38
90°	0	58	138	188	195	2
95°	0	42	115	158	165	0
105°	0	30	78	110	120	0
115°	2	25	55	80	85	2
125°	2	20	45	58	62	2
135°	2	18	35	45	48	2
145°	2	12	25	35	38	2
155°	2	10	18	25	28	1
165°	2	5	10	12	15	1
175°	5	5	5	5	2	0
180°	2	2	2	2	2	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2992.4	2992.4	2992.4	2992.4	2992.4
1°	3017.4	3004.9	2972.4	2994.9	2989.9
2°	3014.9	3002.4	2964.9	2974.9	2957.4
3°	3012.4	2994.9	2937.4	2934.9	2909.9
4°	3009.9	2982.4	2902.4	2872.4	2852.4
5°	3007.4	2967.4	2859.9	2804.9	2774.9
6°	3004.9	2949.9	2804.9	2722.4	2679.9
7°	2999.9	2922.4	2747.4	2634.9	2579.9
8°	2994.9	2897.4	2674.9	2539.9	2472.4
9°	2989.9	2864.9	2602.4	2437.4	2357.4
10°	2979.9	2832.4	2527.4	2332.4	2247.4
11°	2974.9	2794.9	2454.9	2232.4	2132.4
12°	2964.9	2754.9	2377.4	2127.4	2039.9
13°	2954.9	2712.4	2282.4	2037.4	1932.4
14°	2944.9	2667.4	2199.9	1937.4	1839.9
15°	2932.4	2619.9	2107.4	1842.4	1742.4
16°	2919.9	2564.9	2024.9	1744.9	1639.9
17°	2907.4	2512.4	1947.4	1654.9	1559.9
18°	2892.4	2459.9	1857.4	1567.4	1474.9
19°	2872.4	2399.9	1784.9	1487.4	1402.4
20°	2854.9	2344.9	1702.4	1412.4	1337.4
21°	2834.9	2277.4	1619.9	1342.4	1267.4
22.5°	2804.9	2182.4	1514.9	1254.9	1184.9
23°	2789.9	2154.9	1472.4	1222.4	1162.4
24°	2769.9	2082.4	1402.4	1172.4	1112.4
25°	2739.9	2024.9	1342.4	1127.4	1080.0
26°	2712.4	1954.9	1282.4	1087.5	1040.0
27°	2684.9	1887.4	1229.9	1045.0	1005.0
28°	2649.9	1817.4	1172.4	1010.0	975.0
29°	2612.4	1752.4	1124.9	980.0	952.5
30°	2574.9	1679.9	1085.0	952.5	930.0
32.5°	2469.9	1519.9	982.5	900.0	885.0
35°	2344.9	1369.9	910.0	852.5	847.5
37.5°	2204.9	1232.4	845.0	815.0	820.0
40°	2039.9	1107.4	790.0	787.5	797.5
42.5°	1864.9	1000.0	747.5	765.0	780.0
45°	1684.9	902.5	705.0	742.5	762.5
47.5°	1497.4	817.5	667.5	715.0	737.5
50°	1307.4	735.0	627.5	682.5	705.0
52.5°	1137.4	662.5	587.5	645.0	670.0
55°	967.5	592.5	545.0	605.0	625.0
57.5°	820.0	527.5	500.0	560.0	575.0
60°	682.5	465.0	455.0	510.0	527.5
62.5°	557.5	410.0	412.5	465.0	482.5
65°	455.0	357.5	375.0	422.5	437.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	370.0	307.5	337.5	387.5	400.0
70°	292.5	262.5	307.5	352.5	365.0
72.5°	232.5	222.5	277.5	325.0	335.0
75°	177.5	185.0	252.5	297.5	310.0
77.5°	127.5	155.0	227.5	275.0	285.0
80°	90.0	127.5	207.5	255.0	265.0
82.5°	57.5	105.0	187.5	237.5	247.5
85°	30.0	85.0	170.0	220.0	230.0
87.5°	12.5	70.0	152.5	202.5	212.5
90°	0.0	57.5	137.5	187.5	195.0
92.5°	0.0	50.0	125.0	172.5	180.0
95°	0.0	42.5	115.0	157.5	165.0
97.5°	0.0	40.0	102.5	145.0	152.5
100°	0.0	35.0	92.5	132.5	142.5
102.5°	0.0	32.5	85.0	120.0	130.0
105°	0.0	30.0	77.5	110.0	120.0
107.5°	0.0	27.5	72.5	102.5	110.0
110°	0.0	27.5	65.0	95.0	102.5
112.5°	2.5	25.0	60.0	85.0	92.5
115°	2.5	25.0	55.0	80.0	85.0
117.5°	2.5	25.0	52.5	72.5	77.5
120°	2.5	22.5	50.0	67.5	72.5
122.5°	2.5	22.5	47.5	62.5	65.0
125°	2.5	20.0	45.0	57.5	62.5
127.5°	2.5	20.0	42.5	55.0	57.5
130°	2.5	20.0	40.0	50.0	55.0
132.5°	2.5	17.5	37.5	47.5	50.0
135°	2.5	17.5	35.0	45.0	47.5
137.5°	2.5	15.0	32.5	42.5	45.0
140°	2.5	15.0	30.0	40.0	42.5
142.5°	2.5	12.5	27.5	37.5	40.0
145°	2.5	12.5	25.0	35.0	37.5
147.5°	2.5	12.5	22.5	32.5	35.0
150°	2.5	10.0	20.0	30.0	32.5
152.5°	2.5	10.0	17.5	27.5	30.0
155°	2.5	10.0	17.5	25.0	27.5
157.5°	2.5	7.5	15.0	20.0	25.0
160°	2.5	7.5	12.5	17.5	22.5
162.5°	2.5	7.5	12.5	15.0	17.5
165°	2.5	5.0	10.0	12.5	15.0
167.5°	2.5	5.0	7.5	10.0	12.5
170°	2.5	5.0	7.5	7.5	10.0
172.5°	2.5	5.0	5.0	5.0	5.0
175°	5.0	5.0	5.0	5.0	2.5
177.5°	5.0	5.0	5.0	2.5	2.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	2.5	2.5	2.5	2.5	2.5

(END OF REPORT)