

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: P567837

Luminaire Tested: **8SNX-52SL-LC-UNV-L850-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567837  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2205-663-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNX-52SL-LC-UNV-L850-CD  
Description: 8FT 5200 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LC LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

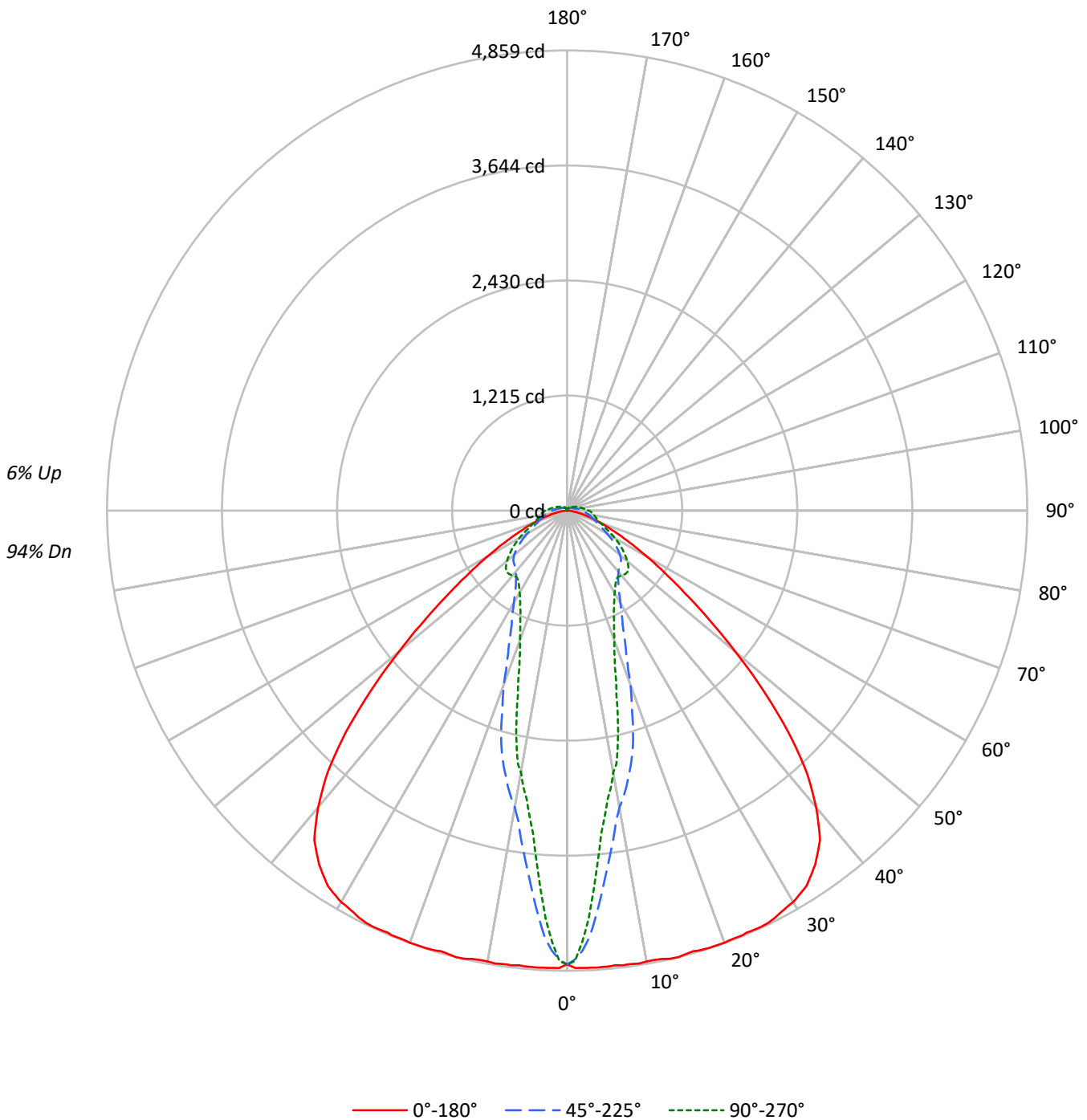
Lumens per Lamp: N/A  
Luminaire Lumens: 5907.0 lumens  
Efficiency: N/A  
Efficacy: 180.1 lumens/watt  
Spacing Criteria (0/90/45): 1.45 / 0.43 / 0.61  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 32.8  
Input Voltage (V): NR  
Input Current (Ain): 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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94				
1	108	103	99	96	105	101	97	94	95	92	90	90	88	86	86	84	82	80				
2	99	92	86	80	96	89	84	79	85	80	76	81	77	74	77	74	71	69				
3	92	82	75	69	89	80	73	68	76	71	66	73	68	64	70	66	62	60				
4	85	74	66	60	82	72	65	59	69	63	58	66	61	56	63	59	55	53				
5	79	67	59	53	76	66	58	52	63	56	51	60	55	50	58	53	49	47				
6	73	61	53	47	71	60	52	47	58	51	46	56	50	45	53	48	44	42				
7	69	56	48	43	67	55	48	42	53	46	42	51	45	41	50	44	40	38				
8	64	52	44	39	63	51	44	39	49	43	38	48	42	37	46	41	37	35				
9	61	48	41	36	59	47	40	35	46	39	35	44	39	34	43	38	34	32				
10	57	45	38	33	56	44	37	33	43	37	32	42	36	32	40	35	31	30				

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

	0°	45°	90°
0°	25790	25790	25790
5°	26070	21209	18961
10°	26323	16030	13723
15°	26854	13117	9502
20°	27600	9501	6711
25°	28521	6814	5280
30°	29315	5450	4496
35°	29562	4615	4027
40°	28261	4200	4037
45°	24601	4062	4147
50°	18945	3868	3870
55°	13792	3387	3434
60°	10064	2831	2903
65°	7380	2397	2380
70°	5497	2121	2052
75°	3971	1968	1913
80°	2686	1848	1884
85°	1357	1768	1887



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	376.9	6.4
10°-20°	818.4	13.9
20°-30°	936.7	15.9
30°-40°	938.4	15.9
40°-50°	888.3	15.0
50°-60°	681.3	11.5
60°-70°	439.1	7.4
70°-80°	280.0	4.7
80°-90°	186.0	3.1
90°-100°	125.0	2.1
100°-110°	82.4	1.4
110°-120°	57.3	1.0
120°-130°	40.0	0.7
130°-140°	27.8	0.5
140°-150°	17.0	0.3
150°-160°	8.6	0.1
160°-170°	3.3	0.1
170°-180°	0.6	0.0
0°-30°	2132.0	36.1
0°-40°	3070.4	52.0
0°-60°	4640.0	78.6
0°-90°	5545.1	93.9
90°-120°	264.7	4.5
90°-150°	349.3	5.9
90°-180°	362.0	6.1
0°-180°	5907.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4792	4792	4792	4792	4792	
5°	4834	4568	4093	3817	3714	462
15°	4846	3490	2661	2186	2010	1375
25°	4850	2470	1408	1223	1166	2236
35°	4565	1374	942	911	899	2832
45°	3300	869	793	878	908	2509
55°	1514	621	612	687	714	1392
65°	605	390	384	439	454	623
75°	206	212	266	306	321	226
85°	27	97	188	245	263	37
90°	0	67	157	218	227	1
95°	0	48	130	179	188	0
105°	0	36	85	121	130	2
115°	3	30	64	88	94	3
125°	3	27	54	64	67	3
135°	3	21	42	52	54	2
145°	3	15	30	39	42	2
155°	3	9	18	27	30	2
165°	6	6	12	15	18	1
175°	6	6	6	6	3	1
180°	6	6	6	6	6	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4792.0	4792.0	4792.0	4792.0	4792.0
1°	4831.4	4804.2	4740.6	4758.7	4755.7
2°	4831.4	4773.9	4649.8	4613.4	4559.0
3°	4834.4	4722.4	4510.5	4392.5	4316.8
4°	4834.4	4646.7	4304.7	4107.9	4011.0
5°	4834.4	4568.0	4092.8	3817.3	3714.4
6°	4828.4	4474.2	3877.8	3587.2	3432.8
7°	4837.5	4371.3	3684.1	3372.3	3251.2
8°	4834.4	4250.2	3505.5	3208.8	3075.6
9°	4843.5	4132.1	3311.7	3054.4	2954.5
10°	4834.4	4023.1	3184.6	2909.1	2806.2
11°	4834.4	3917.2	3093.8	2815.3	2727.5
12°	4840.5	3796.1	2993.9	2682.1	2561.0
13°	4855.6	3672.0	2878.9	2536.8	2394.5
14°	4858.6	3578.1	2772.9	2352.1	2203.8
15°	4846.5	3490.4	2660.9	2185.6	2010.1
16°	4840.5	3399.5	2527.7	2028.2	1870.8
17°	4852.6	3293.6	2376.3	1867.8	1722.5
18°	4855.6	3196.7	2215.9	1746.7	1619.5
19°	4855.6	3121.0	2085.7	1634.7	1525.7
20°	4855.6	3048.4	1952.5	1549.9	1456.1
21°	4849.6	2957.6	1801.2	1462.1	1383.4
22.5°	4852.6	2788.0	1628.6	1359.2	1295.6
23°	4843.5	2745.7	1586.2	1332.0	1265.4
24°	4846.5	2624.6	1495.4	1277.5	1213.9
25°	4849.6	2470.2	1407.6	1223.0	1165.5
26°	4843.5	2346.1	1335.0	1171.5	1132.2
27°	4828.4	2246.2	1283.5	1129.1	1092.8
28°	4807.2	2113.0	1229.0	1092.8	1059.5
29°	4786.0	1961.6	1174.6	1053.5	1029.2
30°	4773.9	1840.5	1123.1	1023.2	1002.0
32.5°	4701.2	1601.4	1017.1	962.6	944.5
35°	4565.0	1374.3	941.5	911.2	899.1
37.5°	4386.4	1198.8	883.9	877.9	880.9
40°	4092.8	1059.5	841.6	868.8	896.0
42.5°	3741.6	950.5	811.3	877.9	908.2
45°	3299.6	868.8	793.1	877.9	908.2
47.5°	2809.2	802.2	771.9	847.6	877.9
50°	2318.8	741.7	729.6	802.2	829.5
52.5°	1885.9	684.1	675.1	744.7	771.9
55°	1513.6	620.6	611.5	687.2	714.4
57.5°	1213.9	560.0	550.9	620.6	647.8
60°	968.7	499.5	484.4	554.0	581.2
62.5°	771.9	442.0	432.9	493.4	517.6
65°	605.4	390.5	384.5	438.9	454.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	478.3	342.1	345.1	390.5	408.7
70°	369.3	296.7	314.8	357.2	369.3
72.5°	278.5	251.3	290.6	326.9	342.1
75°	205.8	211.9	266.4	305.7	320.9
77.5°	142.3	175.6	245.2	287.6	302.7
80°	96.9	142.3	224.0	272.4	290.6
82.5°	57.5	118.1	205.8	257.3	278.5
85°	27.2	96.9	187.7	245.2	263.4
87.5°	9.1	78.7	169.5	233.1	248.2
90°	0.0	66.6	157.4	218.0	227.0
92.5°	0.0	57.5	142.3	199.8	205.8
95°	0.0	48.4	130.2	178.6	187.7
97.5°	0.0	45.4	121.1	160.4	172.5
100°	0.0	42.4	109.0	145.3	157.4
102.5°	0.0	36.3	96.9	130.2	142.3
105°	0.0	36.3	84.8	121.1	130.2
107.5°	3.0	33.3	78.7	109.0	121.1
110°	3.0	33.3	69.6	102.9	112.0
112.5°	3.0	33.3	66.6	93.8	106.0
115°	3.0	30.3	63.6	87.8	93.8
117.5°	3.0	30.3	60.5	78.7	84.8
120°	3.0	27.2	57.5	72.7	75.7
122.5°	3.0	27.2	54.5	66.6	69.6
125°	3.0	27.2	54.5	63.6	66.6
127.5°	3.0	24.2	51.5	60.5	60.5
130°	3.0	24.2	48.4	57.5	57.5
132.5°	3.0	21.2	45.4	54.5	57.5
135°	3.0	21.2	42.4	51.5	54.5
137.5°	3.0	18.2	39.4	48.4	51.5
140°	3.0	18.2	36.3	45.4	48.4
142.5°	3.0	15.1	33.3	42.4	45.4
145°	3.0	15.1	30.3	39.4	42.4
147.5°	3.0	15.1	27.2	36.3	39.4
150°	3.0	12.1	24.2	33.3	36.3
152.5°	3.0	12.1	21.2	30.3	33.3
155°	3.0	9.1	18.2	27.2	30.3
157.5°	3.0	9.1	18.2	24.2	27.2
160°	6.1	9.1	15.1	21.2	24.2
162.5°	3.0	6.1	15.1	18.2	21.2
165°	6.1	6.1	12.1	15.1	18.2
167.5°	6.1	6.1	9.1	12.1	15.1
170°	6.1	6.1	9.1	9.1	12.1
172.5°	6.1	6.1	6.1	9.1	6.1
175°	6.1	6.1	6.1	6.1	3.0
177.5°	6.1	6.1	6.1	6.1	3.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	6.1	6.1	6.1	6.1	6.1

(END OF REPORT)