

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: P567844

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

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567844  
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-L840-CD  
Description: 8FT 5200 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LN LENS  
Light Source: -  
Ballast/Driver: -

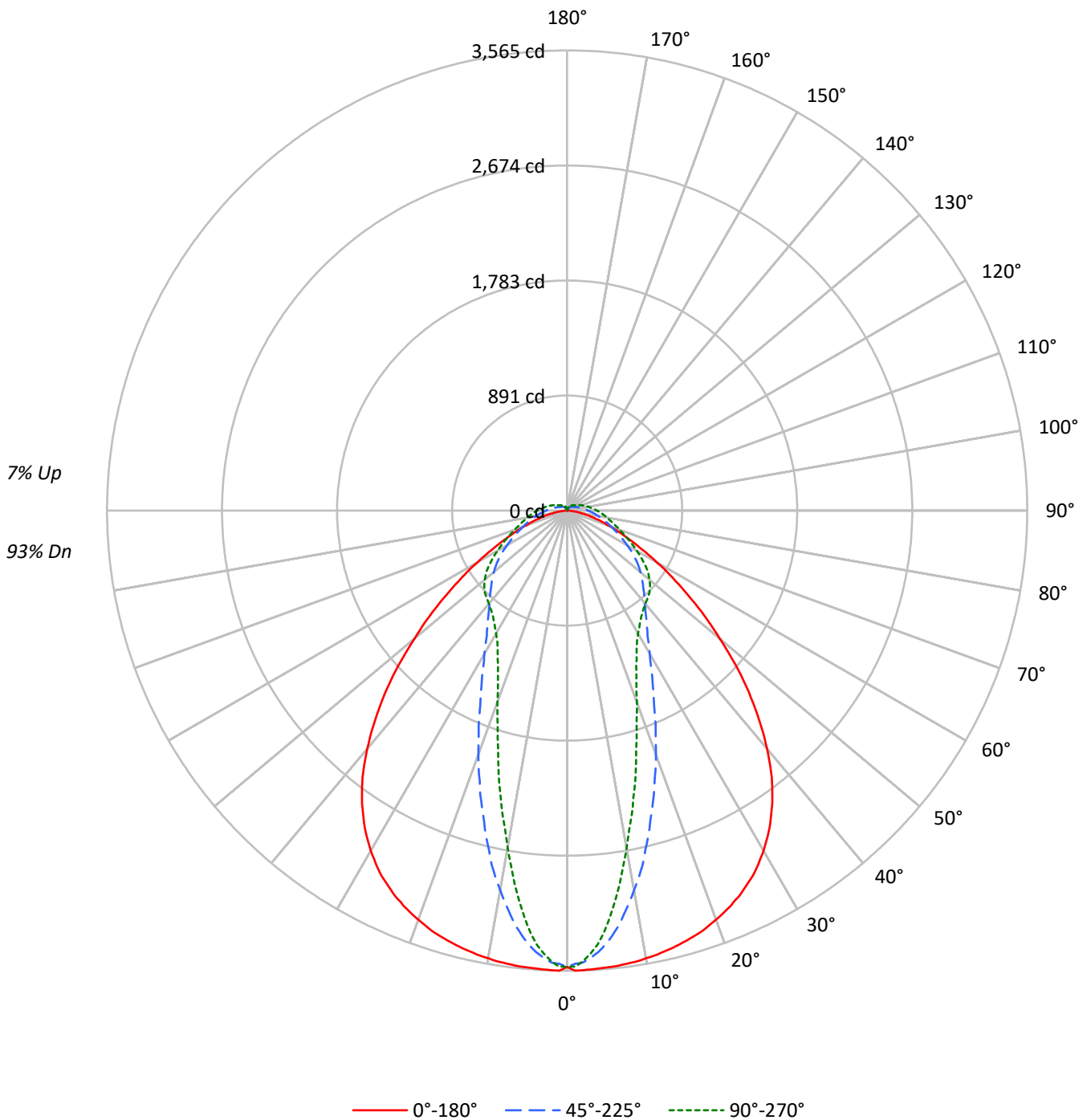
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5636.0 lumens  
Efficiency: N/A  
Efficacy: 171.8 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

TEST NUMBER: P567844  
CATALOG NUMBER: 8SNX-52SL-LN-UNV-L840-CD

### 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	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°	19028	19028	19028
5°	19162	17511	16737
10°	19171	15031	12985
15°	19197	12275	9733
20°	19174	9789	7284
25°	19039	7679	5780
30°	18682	6220	4931
35°	17942	5270	4485
40°	16643	4658	4245
45°	14843	4266	4114
50°	12621	3930	3887
55°	10416	3566	3549
60°	8378	3141	3113
65°	6553	2763	2709
70°	5144	2448	2396
75°	4046	2204	2184
80°	2946	2023	2030
85°	1766	1892	1946



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CATALOG NUMBER: 8SNX-52SL-LN-UNV-L840-CD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	313.1	5.6
10°-20°	733.9	13.0
20°-30°	871.2	15.5
30°-40°	876.5	15.6
40°-50°	814.7	14.5
50°-60°	670.9	11.9
60°-70°	472.7	8.4
70°-80°	308.8	5.5
80°-90°	197.2	3.5
90°-100°	129.3	2.3
100°-110°	87.8	1.6
110°-120°	60.2	1.1
120°-130°	41.6	0.7
130°-140°	28.0	0.5
140°-150°	17.3	0.3
150°-160°	9.0	0.2
160°-170°	3.2	0.1
170°-180°	0.6	0.0
0°-30°	1918.2	34.0
0°-40°	2794.7	49.6
0°-60°	4280.3	75.9
0°-90°	5259.1	93.3
90°-120°	277.3	4.9
90°-150°	364.2	6.5
90°-180°	377.0	6.7
0°-180°	5636.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3536	3536	3536	3536	3536	
5°	3553	3506	3379	3314	3279	338
15°	3465	3096	2490	2177	2059	978
25°	3237	2392	1586	1332	1276	1490
35°	2771	1619	1075	1007	1001	1723
45°	1991	1066	833	877	901	1528
55°	1143	700	644	715	738	1032
65°	538	422	443	499	517	545
75°	210	219	298	352	366	227
85°	35	100	201	260	272	45
90°	0	68	162	222	230	2
95°	0	50	136	186	195	0
105°	0	35	92	130	142	0
115°	3	30	65	94	100	3
125°	3	24	53	68	74	3
135°	3	21	41	53	56	2
145°	3	15	30	41	44	2
155°	3	12	21	30	32	1
165°	3	6	12	15	18	1
175°	6	6	6	6	3	0
180°	3	3	3	3	3	



TEST NUMBER: P567844

CATALOG NUMBER: 8SNX-52SL-LN-UNV-L840-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3535.6	3535.6	3535.6	3535.6	3535.6
1°	3565.2	3550.4	3512.0	3538.6	3532.7
2°	3562.2	3547.4	3503.1	3515.0	3494.3
3°	3559.3	3538.6	3470.6	3467.7	3438.2
4°	3556.3	3523.8	3429.3	3393.9	3370.2
5°	3553.4	3506.1	3379.1	3314.1	3278.7
6°	3550.4	3485.4	3314.1	3216.6	3166.4
7°	3544.5	3452.9	3246.2	3113.2	3048.3
8°	3538.6	3423.4	3160.5	3001.0	2921.3
9°	3532.7	3385.0	3074.8	2879.9	2785.4
10°	3520.9	3346.6	2986.2	2755.8	2655.4
11°	3515.0	3302.3	2900.6	2637.7	2519.5
12°	3503.1	3255.0	2809.0	2513.6	2410.3
13°	3491.3	3204.8	2696.8	2407.3	2283.2
14°	3479.5	3151.6	2599.3	2289.2	2174.0
15°	3464.7	3095.5	2490.0	2176.9	2058.8
16°	3450.0	3030.5	2392.5	2061.7	1937.7
17°	3435.2	2968.5	2301.0	1955.4	1843.1
18°	3417.5	2906.5	2194.6	1852.0	1742.7
19°	3393.9	2835.6	2109.0	1757.5	1657.1
20°	3373.2	2770.6	2011.5	1668.9	1580.3
21°	3349.5	2690.9	1914.0	1586.2	1497.5
22.5°	3314.1	2578.6	1790.0	1482.8	1400.1
23°	3296.4	2546.1	1739.8	1444.4	1373.5
24°	3272.7	2460.5	1657.1	1385.3	1314.4
25°	3237.3	2392.5	1586.2	1332.1	1276.0
26°	3204.8	2309.8	1515.3	1284.9	1228.8
27°	3172.3	2230.1	1453.2	1234.7	1187.4
28°	3131.0	2147.4	1385.3	1193.3	1152.0
29°	3086.7	2070.6	1329.2	1157.9	1125.4
30°	3042.4	1984.9	1281.9	1125.4	1098.8
32.5°	2918.3	1795.9	1160.8	1063.3	1045.6
35°	2770.6	1618.7	1075.2	1007.2	1001.3
37.5°	2605.2	1456.2	998.4	962.9	968.8
40°	2410.3	1308.5	933.4	930.4	942.2
42.5°	2203.5	1181.5	883.2	903.8	921.6
45°	1990.8	1066.3	833.0	877.3	900.9
47.5°	1769.3	965.9	788.6	844.8	871.4
50°	1544.8	868.4	741.4	806.4	833.0
52.5°	1344.0	782.7	694.1	762.1	791.6
55°	1143.1	700.0	643.9	714.8	738.4
57.5°	968.8	623.2	590.7	661.6	679.4
60°	806.4	549.4	537.6	602.6	623.2
62.5°	658.7	484.4	487.4	549.4	570.1
65°	537.6	422.4	443.1	499.2	516.9



TEST NUMBER: P567844

CATALOG NUMBER: 8SNX-52SL-LN-UNV-L840-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	437.2	363.3	398.8	457.8	472.6
70°	345.6	310.1	363.3	416.5	431.2
72.5°	274.7	262.9	327.9	384.0	395.8
75°	209.7	218.6	298.3	351.5	366.3
77.5°	150.6	183.1	268.8	324.9	336.7
80°	106.3	150.6	245.2	301.3	313.1
82.5°	67.9	124.1	221.5	280.6	292.4
85°	35.4	100.4	200.9	259.9	271.7
87.5°	14.8	82.7	180.2	239.3	251.1
90°	0.0	67.9	162.5	221.5	230.4
92.5°	0.0	59.1	147.7	203.8	212.7
95°	0.0	50.2	135.9	186.1	194.9
97.5°	0.0	47.3	121.1	171.3	180.2
100°	0.0	41.4	109.3	156.5	168.4
102.5°	0.0	38.4	100.4	141.8	153.6
105°	0.0	35.4	91.6	130.0	141.8
107.5°	0.0	32.5	85.7	121.1	130.0
110°	0.0	32.5	76.8	112.2	121.1
112.5°	3.0	29.5	70.9	100.4	109.3
115°	3.0	29.5	65.0	94.5	100.4
117.5°	3.0	29.5	62.0	85.7	91.6
120°	3.0	26.6	59.1	79.8	85.7
122.5°	3.0	26.6	56.1	73.8	76.8
125°	3.0	23.6	53.2	67.9	73.8
127.5°	3.0	23.6	50.2	65.0	67.9
130°	3.0	23.6	47.3	59.1	65.0
132.5°	3.0	20.7	44.3	56.1	59.1
135°	3.0	20.7	41.4	53.2	56.1
137.5°	3.0	17.7	38.4	50.2	53.2
140°	3.0	17.7	35.4	47.3	50.2
142.5°	3.0	14.8	32.5	44.3	47.3
145°	3.0	14.8	29.5	41.4	44.3
147.5°	3.0	14.8	26.6	38.4	41.4
150°	3.0	11.8	23.6	35.4	38.4
152.5°	3.0	11.8	20.7	32.5	35.4
155°	3.0	11.8	20.7	29.5	32.5
157.5°	3.0	8.9	17.7	23.6	29.5
160°	3.0	8.9	14.8	20.7	26.6
162.5°	3.0	8.9	14.8	17.7	20.7
165°	3.0	5.9	11.8	14.8	17.7
167.5°	3.0	5.9	8.9	11.8	14.8
170°	3.0	5.9	8.9	8.9	11.8
172.5°	3.0	5.9	5.9	5.9	5.9
175°	5.9	5.9	5.9	5.9	3.0
177.5°	5.9	5.9	5.9	3.0	3.0



TEST NUMBER: P567844

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	3.0	3.0	3.0	3.0	3.0

(END OF REPORT)