

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: P568083

Luminaire Tested: **8SNX-90SL-LN-UNV-L835-CD**

Issue Date: 9/15/2022



**Test Information**

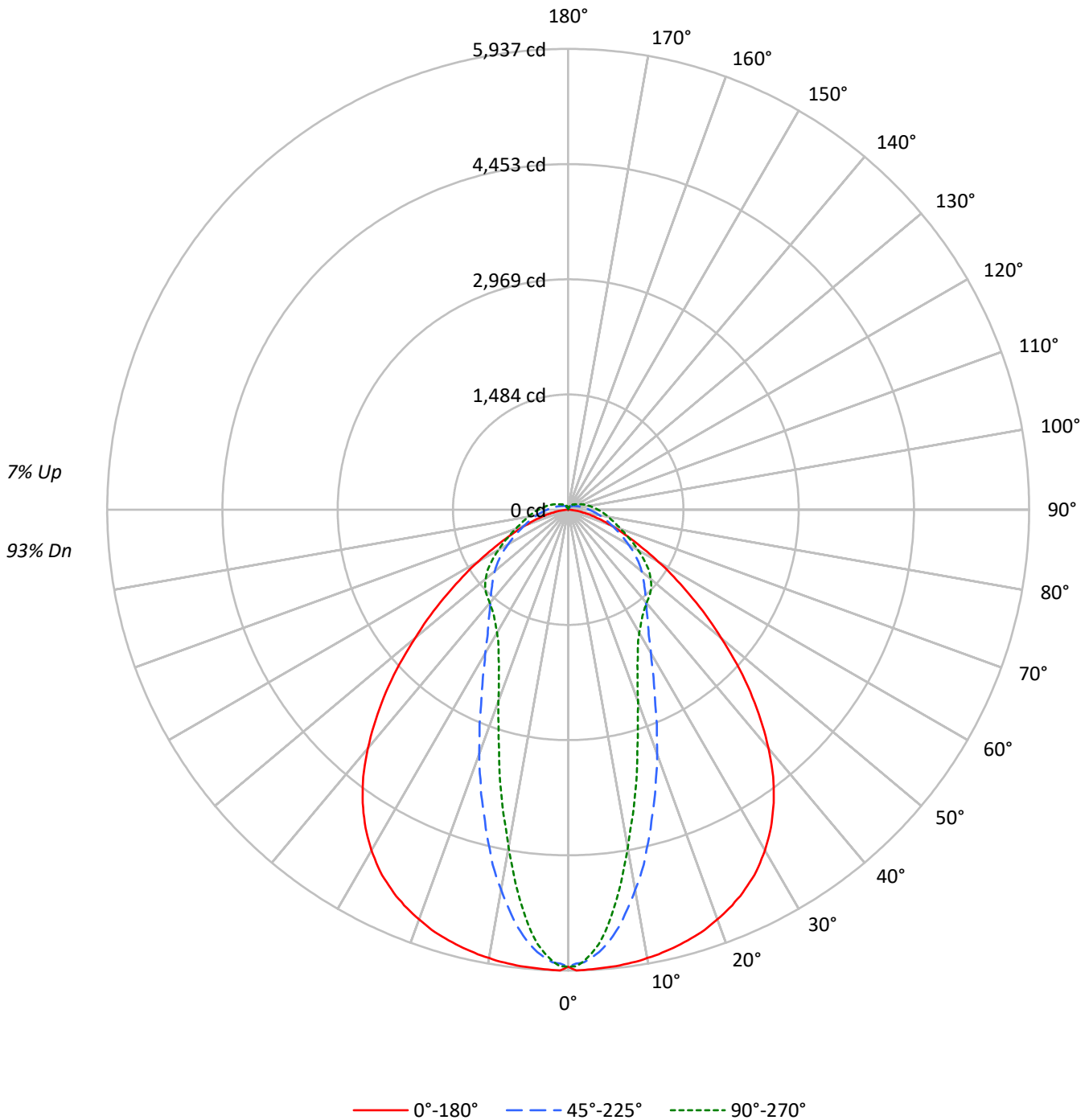
Test Method: LM-79-08  
Report Number: P568083  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNX-90SL-LN-UNV-L835-CD  
Description: 8FT 9000 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND LN LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9386.0 lumens  
Efficiency: N/A  
Efficacy: 157.5 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): 59.6  
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°	31690	31690	31690
5°	31912	29162	27873
10°	31927	25033	21625
15°	31971	20442	16208
20°	31932	16302	12129
25°	31707	12787	9626
30°	31112	10360	8211
35°	29879	8776	7470
40°	27716	7757	7070
45°	24719	7104	6851
50°	21019	6546	6472
55°	17347	5939	5911
60°	13951	5232	5185
65°	10914	4601	4512
70°	8566	4076	3991
75°	6739	3671	3637
80°	4909	3368	3380
85°	2943	3150	3242



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	521.4	5.6
10°-20°	1222.2	13.0
20°-30°	1450.8	15.5
30°-40°	1459.7	15.6
40°-50°	1356.8	14.5
50°-60°	1117.3	11.9
60°-70°	787.3	8.4
70°-80°	514.3	5.5
80°-90°	328.4	3.5
90°-100°	215.4	2.3
100°-110°	146.2	1.6
110°-120°	100.2	1.1
120°-130°	69.3	0.7
130°-140°	46.6	0.5
140°-150°	28.8	0.3
150°-160°	14.9	0.2
160°-170°	5.4	0.1
170°-180°	0.9	0.0
0°-30°	3194.5	34.0
0°-40°	4654.2	49.6
0°-60°	7128.3	75.9
0°-90°	8758.3	93.3
90°-120°	461.8	4.9
90°-150°	606.5	6.5
90°-180°	628.0	6.7
0°-180°	9386.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5888	5888	5888	5888	5888	
5°	5918	5839	5627	5519	5460	563
15°	5770	5155	4147	3625	3429	1630
25°	5391	3984	2642	2218	2125	2481
35°	4614	2696	1790	1677	1668	2870
45°	3315	1776	1387	1461	1500	2545
55°	1904	1166	1072	1190	1230	1719
65°	895	703	738	831	861	908
75°	349	364	497	585	610	378
85°	59	167	334	433	453	74
90°	0	113	270	369	384	3
95°	0	84	226	310	325	0
105°	0	59	152	216	236	0
115°	5	49	108	157	167	4
125°	5	39	88	113	123	4
135°	5	34	69	88	94	4
145°	5	25	49	69	74	3
155°	5	20	34	49	54	2
165°	5	10	20	25	30	1
175°	10	10	10	10	5	1
180°	5	5	5	5	5	



TEST NUMBER: P568083

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5888.1	5888.1	5888.1	5888.1	5888.1
1°	5937.3	5912.7	5848.8	5893.0	5883.2
2°	5932.4	5907.8	5834.0	5853.7	5819.3
3°	5927.5	5893.0	5779.9	5775.0	5725.8
4°	5922.6	5868.4	5711.0	5652.0	5612.7
5°	5917.6	5838.9	5627.4	5519.2	5460.2
6°	5912.7	5804.5	5519.2	5356.9	5273.2
7°	5902.9	5750.4	5406.1	5184.7	5076.5
8°	5893.0	5701.2	5263.4	4997.8	4865.0
9°	5883.2	5637.2	5120.7	4796.1	4638.7
10°	5863.5	5573.3	4973.2	4589.5	4422.2
11°	5853.7	5499.5	4830.5	4392.7	4196.0
12°	5834.0	5420.8	4678.0	4186.1	4014.0
13°	5814.3	5337.2	4491.1	4009.0	3802.4
14°	5794.7	5248.6	4328.8	3812.3	3620.4
15°	5770.1	5155.2	4146.8	3625.3	3428.6
16°	5745.5	5047.0	3984.4	3433.5	3226.9
17°	5720.9	4943.7	3832.0	3256.4	3069.5
18°	5691.4	4840.4	3654.9	3084.3	2902.2
19°	5652.0	4722.3	3512.2	2926.8	2759.6
20°	5617.6	4614.1	3349.9	2779.3	2631.7
21°	5578.2	4481.3	3187.6	2641.5	2494.0
22.5°	5519.2	4294.3	2981.0	2469.4	2331.6
23°	5489.7	4240.2	2897.3	2405.4	2287.4
24°	5450.3	4097.6	2759.6	2307.0	2189.0
25°	5391.3	3984.4	2641.5	2218.5	2125.0
26°	5337.2	3846.7	2523.5	2139.8	2046.3
27°	5283.1	3713.9	2420.2	2056.2	1977.5
28°	5214.2	3576.2	2307.0	1987.3	1918.4
29°	5140.4	3448.3	2213.6	1928.3	1874.2
30°	5066.6	3305.6	2134.9	1874.2	1829.9
32.5°	4860.0	2990.8	1933.2	1770.9	1741.3
35°	4614.1	2695.6	1790.5	1677.4	1667.6
37.5°	4338.6	2425.1	1662.6	1603.6	1613.5
40°	4014.0	2179.1	1554.4	1549.5	1569.2
42.5°	3669.6	1967.6	1470.8	1505.2	1534.7
45°	3315.4	1775.8	1387.2	1461.0	1500.3
47.5°	2946.5	1608.5	1313.4	1406.9	1451.1
50°	2572.7	1446.2	1234.7	1342.9	1387.2
52.5°	2238.2	1303.6	1156.0	1269.1	1318.3
55°	1903.7	1165.8	1072.4	1190.4	1229.8
57.5°	1613.5	1037.9	983.8	1101.9	1131.4
60°	1342.9	914.9	895.3	1003.5	1037.9
62.5°	1097.0	806.7	811.6	914.9	949.4
65°	895.3	703.4	737.9	831.3	860.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	728.0	605.0	664.1	762.5	787.1
70°	575.5	516.5	605.0	693.6	718.2
72.5°	457.5	437.8	546.0	639.5	659.2
75°	349.3	364.0	496.8	585.4	610.0
77.5°	250.9	305.0	447.6	541.1	560.8
80°	177.1	250.9	408.3	501.7	521.4
82.5°	113.1	206.6	368.9	467.3	487.0
85°	59.0	167.2	334.5	432.9	452.6
87.5°	24.6	137.7	300.1	398.4	418.1
90°	0.0	113.1	270.5	368.9	383.7
92.5°	0.0	98.4	246.0	339.4	354.2
95°	0.0	83.6	226.3	309.9	324.7
97.5°	0.0	78.7	201.7	285.3	300.1
100°	0.0	68.9	182.0	260.7	280.4
102.5°	0.0	63.9	167.2	236.1	255.8
105°	0.0	59.0	152.5	216.4	236.1
107.5°	0.0	54.1	142.7	201.7	216.4
110°	0.0	54.1	127.9	186.9	201.7
112.5°	4.9	49.2	118.1	167.2	182.0
115°	4.9	49.2	108.2	157.4	167.2
117.5°	4.9	49.2	103.3	142.7	152.5
120°	4.9	44.3	98.4	132.8	142.7
122.5°	4.9	44.3	93.5	123.0	127.9
125°	4.9	39.4	88.5	113.1	123.0
127.5°	4.9	39.4	83.6	108.2	113.1
130°	4.9	39.4	78.7	98.4	108.2
132.5°	4.9	34.4	73.8	93.5	98.4
135°	4.9	34.4	68.9	88.5	93.5
137.5°	4.9	29.5	63.9	83.6	88.5
140°	4.9	29.5	59.0	78.7	83.6
142.5°	4.9	24.6	54.1	73.8	78.7
145°	4.9	24.6	49.2	68.9	73.8
147.5°	4.9	24.6	44.3	63.9	68.9
150°	4.9	19.7	39.4	59.0	63.9
152.5°	4.9	19.7	34.4	54.1	59.0
155°	4.9	19.7	34.4	49.2	54.1
157.5°	4.9	14.8	29.5	39.4	49.2
160°	4.9	14.8	24.6	34.4	44.3
162.5°	4.9	14.8	24.6	29.5	34.4
165°	4.9	9.8	19.7	24.6	29.5
167.5°	4.9	9.8	14.8	19.7	24.6
170°	4.9	9.8	14.8	14.8	19.7
172.5°	4.9	9.8	9.8	9.8	9.8
175°	9.8	9.8	9.8	9.8	4.9
177.5°	9.8	9.8	9.8	4.9	4.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	4.9	4.9	4.9	4.9	4.9

(END OF REPORT)