

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: P568076

Luminaire Tested: **8SNX-90SL-LC-UNV-L840-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P568076
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-90SL-LC-UNV-L840-CD
Description: 8FT 9000 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

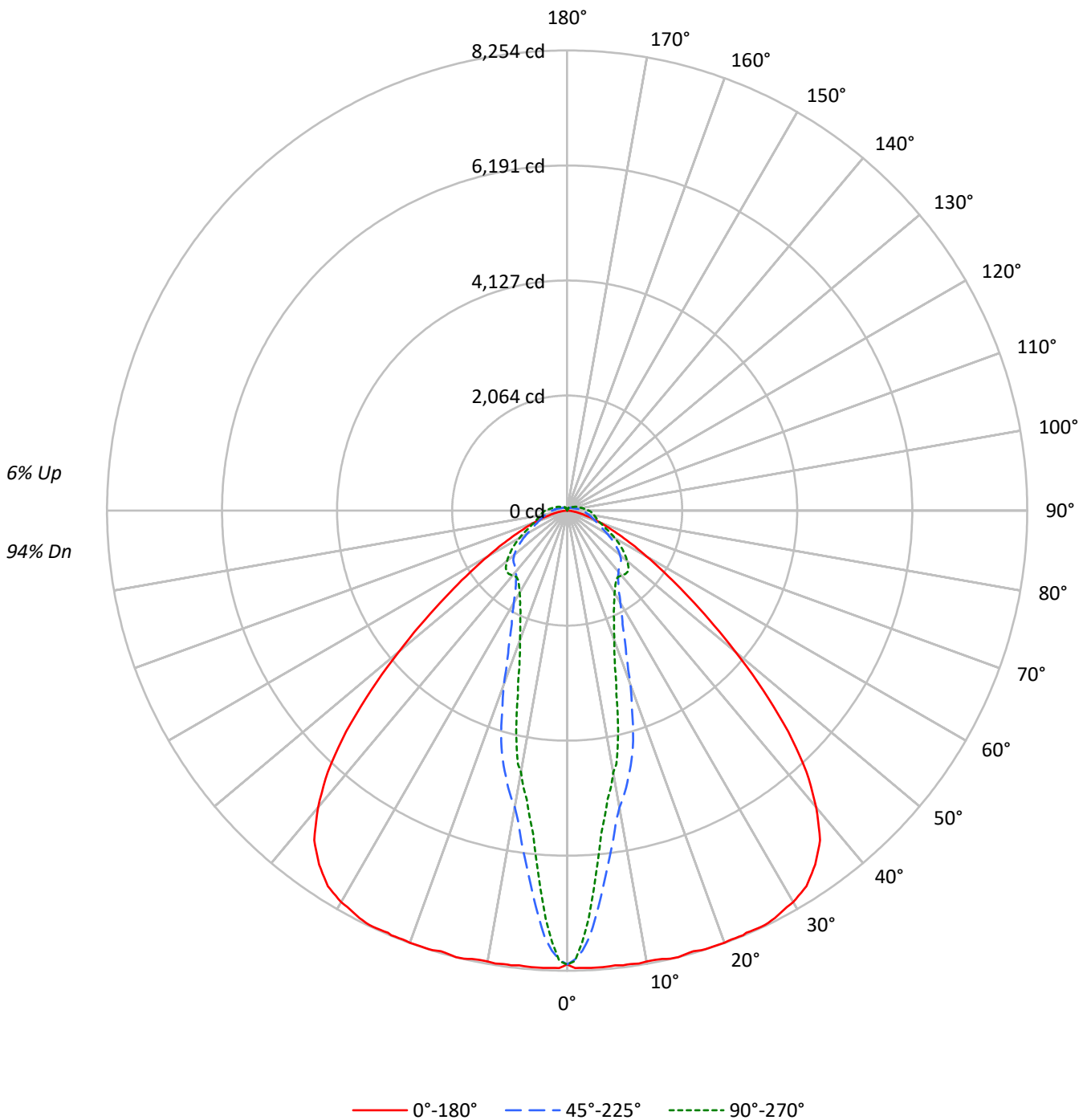
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10035.0 lumens
Efficiency: N/A
Efficacy: 168.4 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): 59.6
Input Voltage (V): NR
Input Current (A_{in}): 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°	43814	43814	43814
5°	44290	36031	32212
10°	44719	27232	23313
15°	45620	22284	16142
20°	46889	16142	11401
25°	48453	11577	8969
30°	49801	9258	7638
35°	50220	7840	6842
40°	48009	7134	6858
45°	41794	6901	7046
50°	32184	6571	6575
55°	23430	5753	5834
60°	17097	4808	4933
65°	12538	4072	4043
70°	9338	3603	3486
75°	6747	3344	3250
80°	4562	3140	3201
85°	2309	3002	3205



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	640.2	6.4
10°-20°	1390.2	13.9
20°-30°	1591.4	15.9
30°-40°	1594.2	15.9
40°-50°	1509.1	15.0
50°-60°	1157.4	11.5
60°-70°	746.0	7.4
70°-80°	475.7	4.7
80°-90°	315.9	3.1
90°-100°	212.3	2.1
100°-110°	139.9	1.4
110°-120°	97.3	1.0
120°-130°	67.9	0.7
130°-140°	47.1	0.5
140°-150°	28.8	0.3
150°-160°	14.6	0.1
160°-170°	5.6	0.1
170°-180°	1.1	0.0
0°-30°	3621.8	36.1
0°-40°	5216.0	52.0
0°-60°	7882.5	78.6
0°-90°	9420.1	93.9
90°-120°	449.6	4.5
90°-150°	593.5	5.9
90°-180°	615.0	6.1
0°-180°	10035.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8141	8141	8141	8141	8141	
5°	8213	7760	6953	6485	6310	784
15°	8233	5930	4520	3713	3415	2335
25°	8239	4196	2391	2078	1980	3798
35°	7755	2335	1599	1548	1527	4812
45°	5606	1476	1347	1491	1543	4262
55°	2571	1054	1039	1167	1214	2365
65°	1028	663	653	746	771	1058
75°	350	360	453	519	545	384
85°	46	165	319	417	447	64
90°	0	113	267	370	386	2
95°	0	82	221	303	319	0
105°	0	62	144	206	221	3
115°	5	51	108	149	159	5
125°	5	46	93	108	113	5
135°	5	36	72	87	93	4
145°	5	26	51	67	72	3
155°	5	15	31	46	51	3
165°	10	10	21	26	31	2
175°	10	10	10	10	5	1
180°	10	10	10	10	10	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8140.9	8140.9	8140.9	8140.9	8140.9
1°	8207.7	8161.4	8053.5	8084.3	8079.2
2°	8207.7	8110.0	7899.2	7837.5	7744.9
3°	8212.9	8022.6	7662.6	7462.0	7333.5
4°	8212.9	7894.0	7312.9	6978.6	6814.1
5°	8212.9	7760.3	6952.9	6484.9	6310.1
6°	8202.6	7600.9	6587.8	6094.1	5831.8
7°	8218.0	7426.0	6258.7	5729.0	5523.2
8°	8212.9	7220.3	5955.2	5451.3	5225.0
9°	8228.3	7019.8	5626.1	5189.0	5019.3
10°	8212.9	6834.6	5410.1	4942.1	4767.3
11°	8212.9	6654.6	5255.8	4782.7	4633.6
12°	8223.2	6448.9	5086.1	4556.4	4350.7
13°	8248.9	6238.1	4890.7	4309.6	4067.9
14°	8254.0	6078.7	4710.7	3995.9	3743.9
15°	8233.4	5929.5	4520.4	3713.0	3414.7
16°	8223.2	5775.2	4294.1	3445.6	3178.2
17°	8243.7	5595.2	4037.0	3173.0	2926.2
18°	8248.9	5430.7	3764.4	2967.3	2751.3
19°	8248.9	5302.1	3543.3	2777.1	2591.9
20°	8248.9	5178.7	3317.0	2633.1	2473.6
21°	8238.6	5024.4	3059.9	2483.9	2350.2
22.5°	8243.7	4736.4	2766.8	2309.1	2201.1
23°	8228.3	4664.4	2694.8	2262.8	2149.6
24°	8233.4	4458.7	2540.5	2170.2	2062.2
25°	8238.6	4196.4	2391.4	2077.6	1979.9
26°	8228.3	3985.6	2267.9	1990.2	1923.4
27°	8202.6	3815.9	2180.5	1918.2	1856.5
28°	8166.6	3589.6	2087.9	1856.5	1799.9
29°	8130.6	3332.5	1995.4	1789.7	1748.5
30°	8110.0	3126.8	1907.9	1738.2	1702.2
32.5°	7986.6	2720.5	1727.9	1635.4	1604.5
35°	7755.2	2334.8	1599.4	1547.9	1527.4
37.5°	7451.8	2036.5	1501.7	1491.4	1496.5
40°	6952.9	1799.9	1429.7	1476.0	1522.2
42.5°	6356.4	1614.8	1378.2	1491.4	1542.8
45°	5605.5	1476.0	1347.4	1491.4	1542.8
47.5°	4772.4	1362.8	1311.4	1440.0	1491.4
50°	3939.3	1260.0	1239.4	1362.8	1409.1
52.5°	3203.9	1162.2	1146.8	1265.1	1311.4
55°	2571.3	1054.3	1038.8	1167.4	1213.7
57.5°	2062.2	951.4	936.0	1054.3	1100.5
60°	1645.7	848.5	822.8	941.1	987.4
62.5°	1311.4	750.8	735.4	838.3	879.4
65°	1028.5	663.4	653.1	745.7	771.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	812.5	581.1	586.3	663.4	694.3
70°	627.4	504.0	534.8	606.8	627.4
72.5°	473.1	426.8	493.7	555.4	581.1
75°	349.7	360.0	452.6	519.4	545.1
77.5°	241.7	298.3	416.6	488.6	514.3
80°	164.6	241.7	380.6	462.8	493.7
82.5°	97.7	200.6	349.7	437.1	473.1
85°	46.3	164.6	318.8	416.6	447.4
87.5°	15.4	133.7	288.0	396.0	421.7
90°	0.0	113.1	267.4	370.3	385.7
92.5°	0.0	97.7	241.7	339.4	349.7
95°	0.0	82.3	221.1	303.4	318.8
97.5°	0.0	77.1	205.7	272.6	293.1
100°	0.0	72.0	185.1	246.8	267.4
102.5°	0.0	61.7	164.6	221.1	241.7
105°	0.0	61.7	144.0	205.7	221.1
107.5°	5.1	56.6	133.7	185.1	205.7
110°	5.1	56.6	118.3	174.9	190.3
112.5°	5.1	56.6	113.1	159.4	180.0
115°	5.1	51.4	108.0	149.1	159.4
117.5°	5.1	51.4	102.9	133.7	144.0
120°	5.1	46.3	97.7	123.4	128.6
122.5°	5.1	46.3	92.6	113.1	118.3
125°	5.1	46.3	92.6	108.0	113.1
127.5°	5.1	41.1	87.4	102.9	102.9
130°	5.1	41.1	82.3	97.7	97.7
132.5°	5.1	36.0	77.1	92.6	97.7
135°	5.1	36.0	72.0	87.4	92.6
137.5°	5.1	30.9	66.9	82.3	87.4
140°	5.1	30.9	61.7	77.1	82.3
142.5°	5.1	25.7	56.6	72.0	77.1
145°	5.1	25.7	51.4	66.9	72.0
147.5°	5.1	25.7	46.3	61.7	66.9
150°	5.1	20.6	41.1	56.6	61.7
152.5°	5.1	20.6	36.0	51.4	56.6
155°	5.1	15.4	30.9	46.3	51.4
157.5°	5.1	15.4	30.9	41.1	46.3
160°	10.3	15.4	25.7	36.0	41.1
162.5°	5.1	10.3	25.7	30.9	36.0
165°	10.3	10.3	20.6	25.7	30.9
167.5°	10.3	10.3	15.4	20.6	25.7
170°	10.3	10.3	15.4	15.4	20.6
172.5°	10.3	10.3	10.3	15.4	10.3
175°	10.3	10.3	10.3	10.3	5.1
177.5°	10.3	10.3	10.3	10.3	5.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	10.3	10.3	10.3	10.3	10.3

(END OF REPORT)