

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: P568084

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P568084
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-L840-CD
Description: 8FT 9000 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

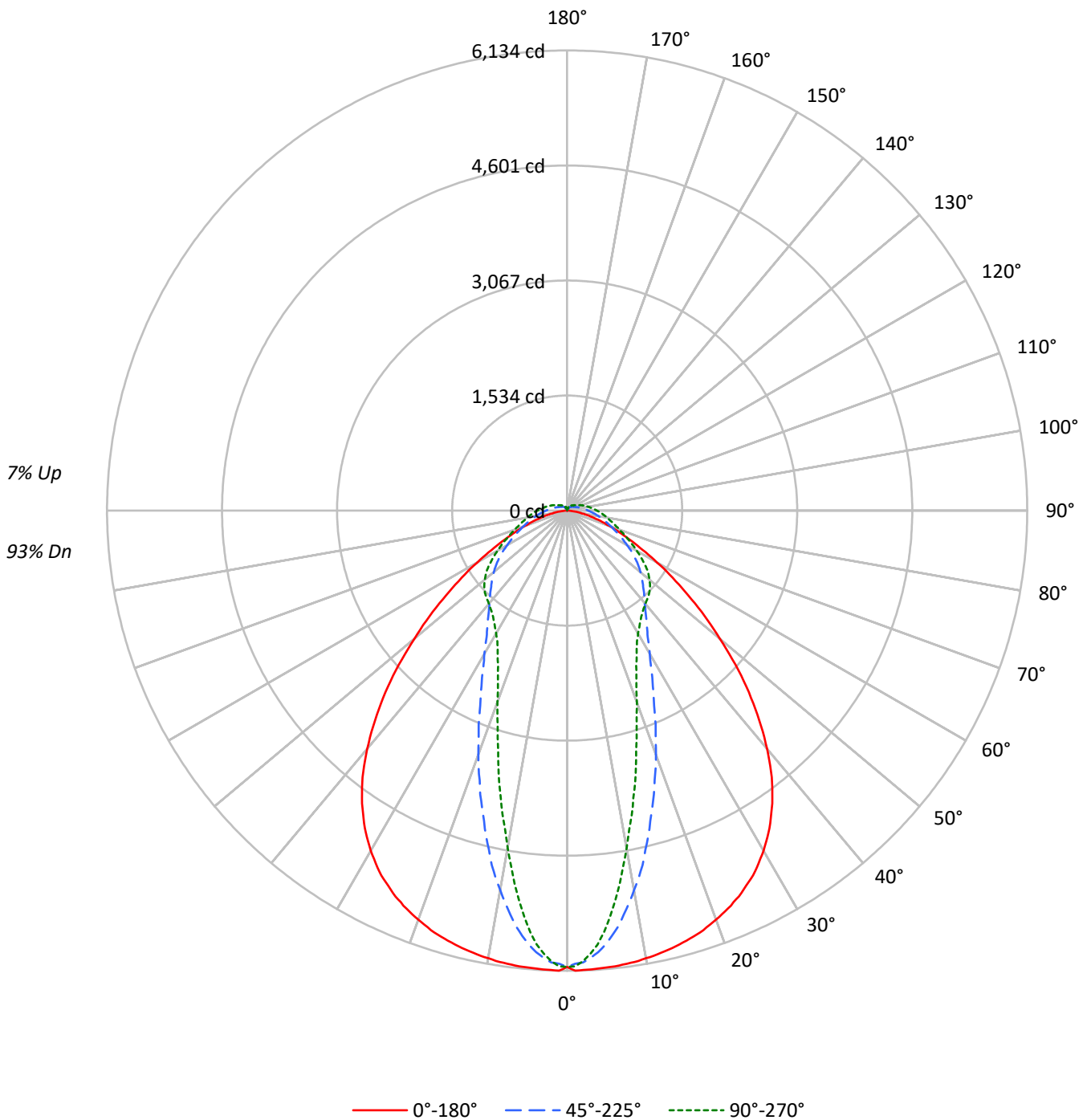
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9697.0 lumens
Efficiency: N/A
Efficacy: 162.7 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 (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	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°	32740	32740	32740
5°	32969	30128	28797
10°	32985	25862	22342
15°	33030	21120	16745
20°	32990	16842	12531
25°	32758	13211	9945
30°	32143	10703	8483
35°	30870	9068	7717
40°	28635	8014	7304
45°	25539	7340	7078
50°	21715	6762	6687
55°	17922	6136	6107
60°	14414	5405	5357
65°	11275	4753	4662
70°	8850	4211	4123
75°	6961	3793	3757
80°	5072	3480	3492
85°	3042	3255	3349



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	538.7	5.6
10°-20°	1262.7	13.0
20°-30°	1498.9	15.5
30°-40°	1508.0	15.6
40°-50°	1401.8	14.5
50°-60°	1154.3	11.9
60°-70°	813.4	8.4
70°-80°	531.4	5.5
80°-90°	339.3	3.5
90°-100°	222.5	2.3
100°-110°	151.0	1.6
110°-120°	103.5	1.1
120°-130°	71.6	0.7
130°-140°	48.2	0.5
140°-150°	29.7	0.3
150°-160°	15.4	0.2
160°-170°	5.6	0.1
170°-180°	1.0	0.0
0°-30°	3300.3	34.0
0°-40°	4808.4	49.6
0°-60°	7364.5	75.9
0°-90°	9048.5	93.3
90°-120°	477.1	4.9
90°-150°	626.6	6.5
90°-180°	649.0	6.7
0°-180°	9697.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6083	6083	6083	6083	6083	
5°	6114	6032	5814	5702	5641	582
15°	5961	5326	4284	3746	3542	1684
25°	5570	4116	2729	2292	2195	2563
35°	4767	2785	1850	1733	1723	2965
45°	3425	1835	1433	1509	1550	2630
55°	1967	1204	1108	1230	1270	1776
65°	925	727	762	859	889	938
75°	361	376	513	605	630	390
85°	61	173	346	447	468	77
90°	0	117	280	381	396	3
95°	0	86	234	320	335	0
105°	0	61	158	224	244	0
115°	5	51	112	163	173	4
125°	5	41	92	117	127	5
135°	5	36	71	92	97	4
145°	5	25	51	71	76	3
155°	5	20	36	51	56	2
165°	5	10	20	25	30	1
175°	10	10	10	10	5	1
180°	5	5	5	5	5	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6083.2	6083.2	6083.2	6083.2	6083.2
1°	6134.0	6108.6	6042.6	6088.3	6078.1
2°	6129.0	6103.5	6027.3	6047.6	6012.1
3°	6123.9	6088.3	5971.4	5966.3	5915.5
4°	6118.8	6062.9	5900.3	5839.3	5798.6
5°	6113.7	6032.4	5813.9	5702.1	5641.1
6°	6108.6	5996.8	5702.1	5534.4	5448.0
7°	6098.5	5940.9	5585.2	5356.5	5244.7
8°	6088.3	5890.1	5437.8	5163.4	5026.2
9°	6078.1	5824.0	5290.4	4955.0	4792.4
10°	6057.8	5758.0	5138.0	4741.6	4568.8
11°	6047.6	5681.7	4990.6	4538.3	4335.0
12°	6027.3	5600.4	4833.0	4324.8	4147.0
13°	6007.0	5514.0	4639.9	4141.9	3928.4
14°	5986.7	5422.6	4472.2	3938.6	3740.4
15°	5961.2	5326.0	4284.2	3745.5	3542.2
16°	5935.8	5214.2	4116.5	3547.3	3333.8
17°	5910.4	5107.5	3958.9	3364.3	3171.2
18°	5879.9	5000.7	3776.0	3186.4	2998.4
19°	5839.3	4878.8	3628.6	3023.8	2851.0
20°	5803.7	4767.0	3460.9	2871.4	2718.9
21°	5763.0	4629.8	3293.2	2729.1	2576.6
22.5°	5702.1	4436.6	3079.7	2551.2	2408.9
23°	5671.6	4380.7	2993.3	2485.1	2363.2
24°	5630.9	4233.4	2851.0	2383.5	2261.5
25°	5569.9	4116.5	2729.1	2292.0	2195.4
26°	5514.0	3974.2	2607.1	2210.7	2114.1
27°	5458.1	3837.0	2500.4	2124.3	2043.0
28°	5387.0	3694.7	2383.5	2053.1	1982.0
29°	5310.7	3562.5	2286.9	1992.2	1936.3
30°	5234.5	3415.1	2205.6	1936.3	1890.5
32.5°	5021.1	3089.9	1997.2	1829.5	1799.0
35°	4767.0	2785.0	1849.9	1733.0	1722.8
37.5°	4482.4	2505.5	1717.7	1656.7	1666.9
40°	4147.0	2251.3	1605.9	1600.8	1621.2
42.5°	3791.2	2032.8	1519.5	1555.1	1585.6
45°	3425.3	1834.6	1433.1	1509.4	1550.0
47.5°	3044.2	1661.8	1356.9	1453.5	1499.2
50°	2657.9	1494.1	1275.6	1387.4	1433.1
52.5°	2312.3	1346.7	1194.3	1311.2	1362.0
55°	1966.8	1204.4	1107.9	1229.9	1270.5
57.5°	1666.9	1072.3	1016.4	1138.4	1168.9
60°	1387.4	945.3	924.9	1036.7	1072.3
62.5°	1133.3	833.5	838.5	945.3	980.8
65°	924.9	726.7	762.3	858.9	889.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	752.1	625.1	686.1	787.7	813.1
70°	594.6	533.6	625.1	716.6	742.0
72.5°	472.6	452.3	564.1	660.7	681.0
75°	360.8	376.1	513.3	604.8	630.2
77.5°	259.2	315.1	462.5	559.0	579.4
80°	183.0	259.2	421.8	518.4	538.7
82.5°	116.9	213.4	381.2	482.8	503.1
85°	61.0	172.8	345.6	447.2	467.5
87.5°	25.4	142.3	310.0	411.6	432.0
90°	0.0	116.9	279.5	381.2	396.4
92.5°	0.0	101.6	254.1	350.7	365.9
95°	0.0	86.4	233.8	320.2	335.4
97.5°	0.0	81.3	208.4	294.8	310.0
100°	0.0	71.1	188.0	269.3	289.7
102.5°	0.0	66.1	172.8	243.9	264.3
105°	0.0	61.0	157.5	223.6	243.9
107.5°	0.0	55.9	147.4	208.4	223.6
110°	0.0	55.9	132.1	193.1	208.4
112.5°	5.1	50.8	122.0	172.8	188.0
115°	5.1	50.8	111.8	162.6	172.8
117.5°	5.1	50.8	106.7	147.4	157.5
120°	5.1	45.7	101.6	137.2	147.4
122.5°	5.1	45.7	96.6	127.1	132.1
125°	5.1	40.7	91.5	116.9	127.1
127.5°	5.1	40.7	86.4	111.8	116.9
130°	5.1	40.7	81.3	101.6	111.8
132.5°	5.1	35.6	76.2	96.6	101.6
135°	5.1	35.6	71.1	91.5	96.6
137.5°	5.1	30.5	66.1	86.4	91.5
140°	5.1	30.5	61.0	81.3	86.4
142.5°	5.1	25.4	55.9	76.2	81.3
145°	5.1	25.4	50.8	71.1	76.2
147.5°	5.1	25.4	45.7	66.1	71.1
150°	5.1	20.3	40.7	61.0	66.1
152.5°	5.1	20.3	35.6	55.9	61.0
155°	5.1	20.3	35.6	50.8	55.9
157.5°	5.1	15.2	30.5	40.7	50.8
160°	5.1	15.2	25.4	35.6	45.7
162.5°	5.1	15.2	25.4	30.5	35.6
165°	5.1	10.2	20.3	25.4	30.5
167.5°	5.1	10.2	15.2	20.3	25.4
170°	5.1	10.2	15.2	15.2	20.3
172.5°	5.1	10.2	10.2	10.2	10.2
175°	10.2	10.2	10.2	10.2	5.1
177.5°	10.2	10.2	10.2	5.1	5.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	5.1	5.1	5.1	5.1	5.1

(END OF REPORT)