

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: P567780

Luminaire Tested: **8SNX-44SL-FDL-UNV-L840-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567780  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2202-547-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNX-44SL-FDL-UNV-L840-CD  
Description: 8FT 4400 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND FDL LENS  
Light Source: -  
Ballast/Driver: -

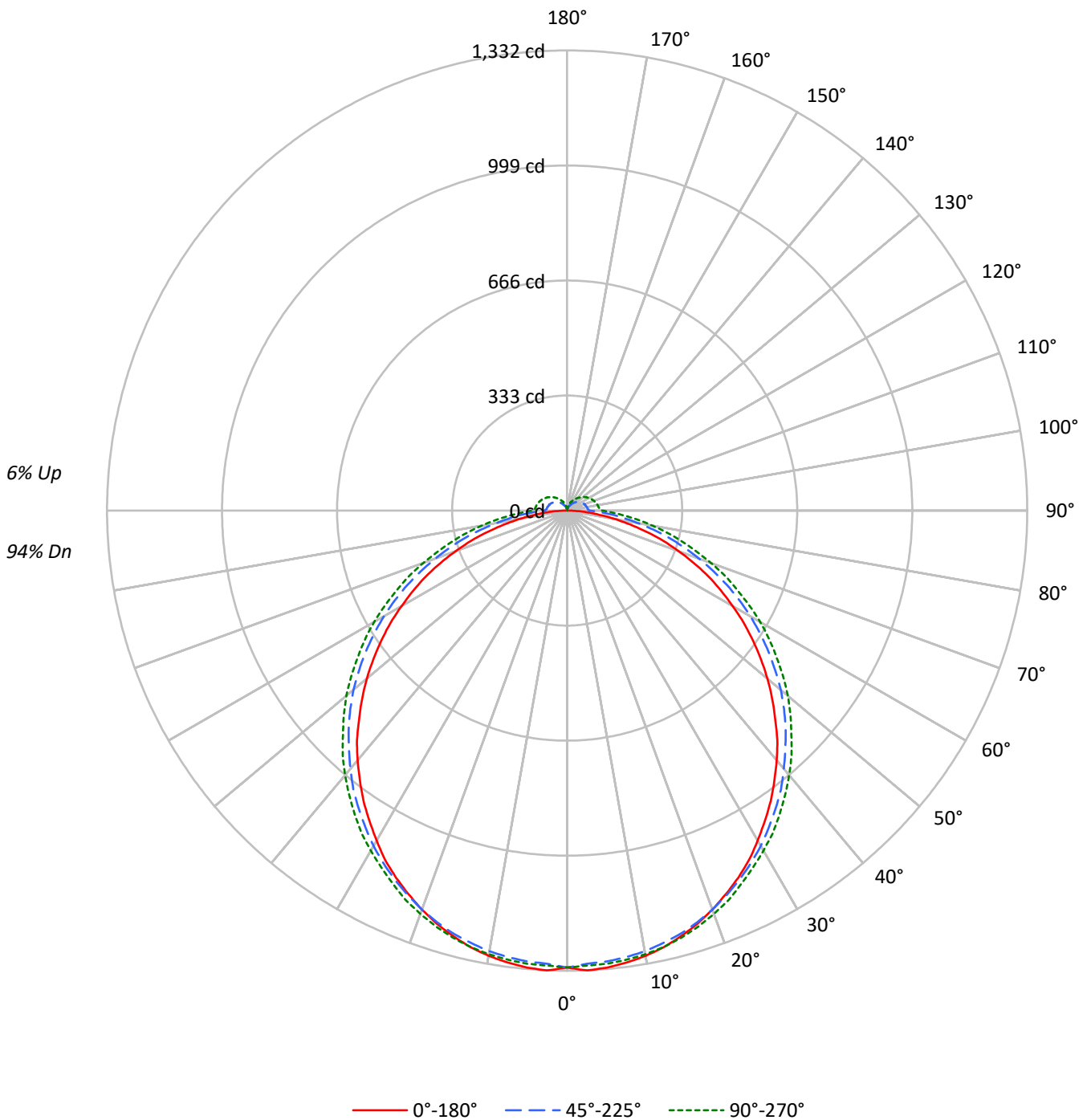
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4203.0 lumens  
Efficiency: N/A  
Efficacy: 152.3 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.28 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.04')  
CIE Type: Direct

Input Watts (W): 27.6  
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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94				
1	107	102	97	93	103	99	95	91	93	90	87	88	86	83	84	82	80	77				
2	97	88	81	75	93	86	79	74	81	76	71	77	73	69	73	69	66	64				
3	88	77	69	62	85	75	67	61	71	65	59	68	62	57	64	60	56	53				
4	80	68	59	52	78	66	58	52	63	56	50	60	54	49	57	52	48	45				
5	74	61	52	45	71	59	51	44	56	49	43	54	47	42	51	46	41	39				
6	68	55	46	39	66	53	45	39	51	43	38	49	42	37	47	41	36	34				
7	63	49	41	34	61	48	40	34	46	39	33	44	38	33	43	37	32	30				
8	59	45	36	31	57	44	36	30	42	35	30	41	34	29	39	33	29	27				
9	55	41	33	27	53	40	33	27	39	32	27	37	31	26	36	30	26	24				
10	51	38	30	25	50	37	30	25	36	29	24	35	28	24	33	28	24	22				

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

	0°	45°	90°
0°	7118	7118	7118
5°	7170	7003	7011
10°	7144	6929	6923
15°	7094	6844	6824
20°	7024	6740	6708
25°	6945	6626	6570
30°	6834	6509	6443
35°	6724	6372	6310
40°	6602	6221	6161
45°	6447	6071	5987
50°	6298	5901	5829
55°	6115	5689	5607
60°	5908	5447	5390
65°	5690	5158	5090
70°	5312	4794	4780
75°	4859	4366	4409
80°	4191	3796	3996
85°	3386	3308	3512



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.4	3.0
10°-20°	359.9	8.6
20°-30°	545.5	13.0
30°-40°	658.5	15.7
40°-50°	687.6	16.4
50°-60°	631.7	15.0
60°-70°	499.5	11.9
70°-80°	316.2	7.5
80°-90°	135.9	3.2
90°-100°	59.8	1.4
100°-110°	53.5	1.3
110°-120°	45.2	1.1
120°-130°	35.2	0.8
130°-140°	24.4	0.6
140°-150°	14.6	0.3
150°-160°	7.1	0.2
160°-170°	2.5	0.1
170°-180°	0.4	0.0
0°-30°	1030.8	24.5
0°-40°	1689.3	40.2
0°-60°	3008.6	71.6
0°-90°	3960.2	94.2
90°-120°	158.5	3.8
90°-150°	232.8	5.5
90°-180°	243.0	5.8
0°-180°	4203.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1323	1323	1323	1323	1323	
5°	1328	1324	1310	1321	1317	126
15°	1275	1275	1268	1282	1279	360
25°	1172	1178	1179	1195	1192	540
35°	1027	1039	1052	1069	1072	642
45°	852	872	895	912	918	658
55°	656	683	712	735	740	587
65°	452	477	511	534	543	445
75°	238	266	305	331	344	252
85°	58	89	128	156	165	64
90°	4	32	66	92	101	5
95°	1	28	60	83	92	1
105°	1	25	56	78	86	1
115°	1	22	51	71	78	1
125°	2	19	42	61	68	1
135°	2	15	34	48	54	1
145°	2	11	24	36	40	1
155°	2	7	16	23	28	1
165°	2	5	8	11	16	1
175°	2	3	4	4	2	0
180°	2	2	2	2	2	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1322.6	1322.6	1322.6	1322.6	1322.6
2.5°	1332.3	1327.8	1312.9	1323.3	1318.1
5°	1327.8	1324.1	1310.0	1321.1	1316.7
7.5°	1319.6	1316.7	1304.0	1315.9	1311.4
10°	1308.5	1306.2	1295.1	1307.0	1304.0
12.5°	1294.3	1293.6	1282.4	1295.8	1293.6
15°	1275.0	1275.0	1268.3	1281.7	1279.4
17.5°	1254.1	1254.9	1249.7	1263.8	1262.3
20°	1228.8	1232.5	1228.8	1243.7	1242.2
22.5°	1201.3	1206.5	1205.0	1219.9	1220.6
25°	1172.3	1177.5	1179.0	1194.6	1192.4
27.5°	1140.3	1148.4	1151.4	1165.6	1164.8
30°	1103.0	1114.2	1120.9	1132.8	1136.5
32.5°	1065.1	1078.5	1086.7	1103.0	1107.5
35°	1027.1	1039.0	1052.4	1068.8	1072.5
37.5°	985.4	998.8	1016.7	1032.3	1036.8
40°	943.8	958.6	975.8	992.9	999.6
42.5°	900.6	916.2	934.8	954.9	961.6
45°	851.5	872.3	894.6	911.8	917.7
47.5°	804.6	827.7	851.5	870.1	876.8
50°	756.9	781.5	806.8	823.9	834.4
52.5°	707.1	733.9	759.2	780.8	787.5
55°	656.5	683.3	711.5	734.6	739.8
57.5°	607.3	633.4	661.7	683.3	693.7
60°	553.8	582.0	612.6	634.1	645.3
62.5°	501.7	529.2	561.9	585.0	593.9
65°	451.8	477.1	510.6	534.4	542.6
67.5°	396.7	425.7	457.7	485.3	495.7
70°	342.4	369.9	406.4	432.4	442.9
72.5°	291.8	318.6	355.0	381.1	390.8
75°	238.2	266.5	305.2	331.2	343.9
77.5°	186.8	218.1	255.3	283.6	297.7
80°	139.2	166.7	206.9	238.2	250.8
82.5°	94.5	124.3	166.0	195.0	209.1
85°	58.1	89.3	128.0	155.6	165.2
87.5°	27.5	57.3	93.0	119.8	131.7
90°	3.7	32.0	65.5	91.5	101.2
92.5°	0.7	27.5	60.3	84.8	93.8
95°	0.7	27.5	59.5	83.4	92.3
97.5°	0.7	26.8	58.8	82.6	90.8
100°	0.7	26.1	58.1	81.1	90.1
102.5°	0.7	26.1	56.6	79.6	87.8
105°	0.7	25.3	55.8	78.2	86.3
107.5°	0.7	24.6	54.3	76.7	84.8
110°	0.7	23.1	53.6	74.4	82.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	22.3	52.1	72.9	80.4
115°	0.7	21.6	50.6	70.7	78.2
117.5°	0.7	20.8	48.4	68.5	75.9
120°	1.5	20.8	46.9	66.2	72.9
122.5°	1.5	20.1	44.7	63.3	70.0
125°	1.5	19.4	42.4	61.0	67.7
127.5°	1.5	18.6	40.2	58.1	64.0
130°	1.5	17.1	38.7	55.1	61.0
132.5°	1.5	16.4	36.5	51.4	57.3
135°	1.5	14.9	34.2	48.4	54.3
137.5°	1.5	14.1	32.0	45.4	50.6
140°	1.5	13.4	29.0	42.4	47.6
142.5°	1.5	11.9	26.8	39.4	43.9
145°	1.5	11.2	23.8	36.5	40.2
147.5°	1.5	9.7	21.6	33.5	37.2
150°	1.5	8.9	19.4	30.5	34.2
152.5°	1.5	8.2	17.1	26.8	30.5
155°	1.5	7.4	15.6	23.1	27.5
157.5°	1.5	6.7	13.4	20.1	24.6
160°	2.2	6.0	11.9	17.1	20.8
162.5°	2.2	5.2	9.7	14.1	18.6
165°	2.2	5.2	8.2	11.2	15.6
167.5°	2.2	4.5	6.7	8.9	12.7
170°	2.2	3.7	6.0	6.7	9.7
172.5°	2.2	3.0	4.5	4.5	5.2
175°	2.2	3.0	3.7	3.7	2.2
177.5°	2.2	2.2	2.2	2.2	1.5
180°	2.2	2.2	2.2	2.2	2.2

(END OF REPORT)