

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: P567687

Luminaire Tested: **8SNX-200HL-FDL-UNV-L935-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567687  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNX-200HL-FDL-UNV-L935-CD  
Description: 8FT 20000 LUMEN, SNX FIXTURE WITH 3500K, 90CRI LEDS AND FDL LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

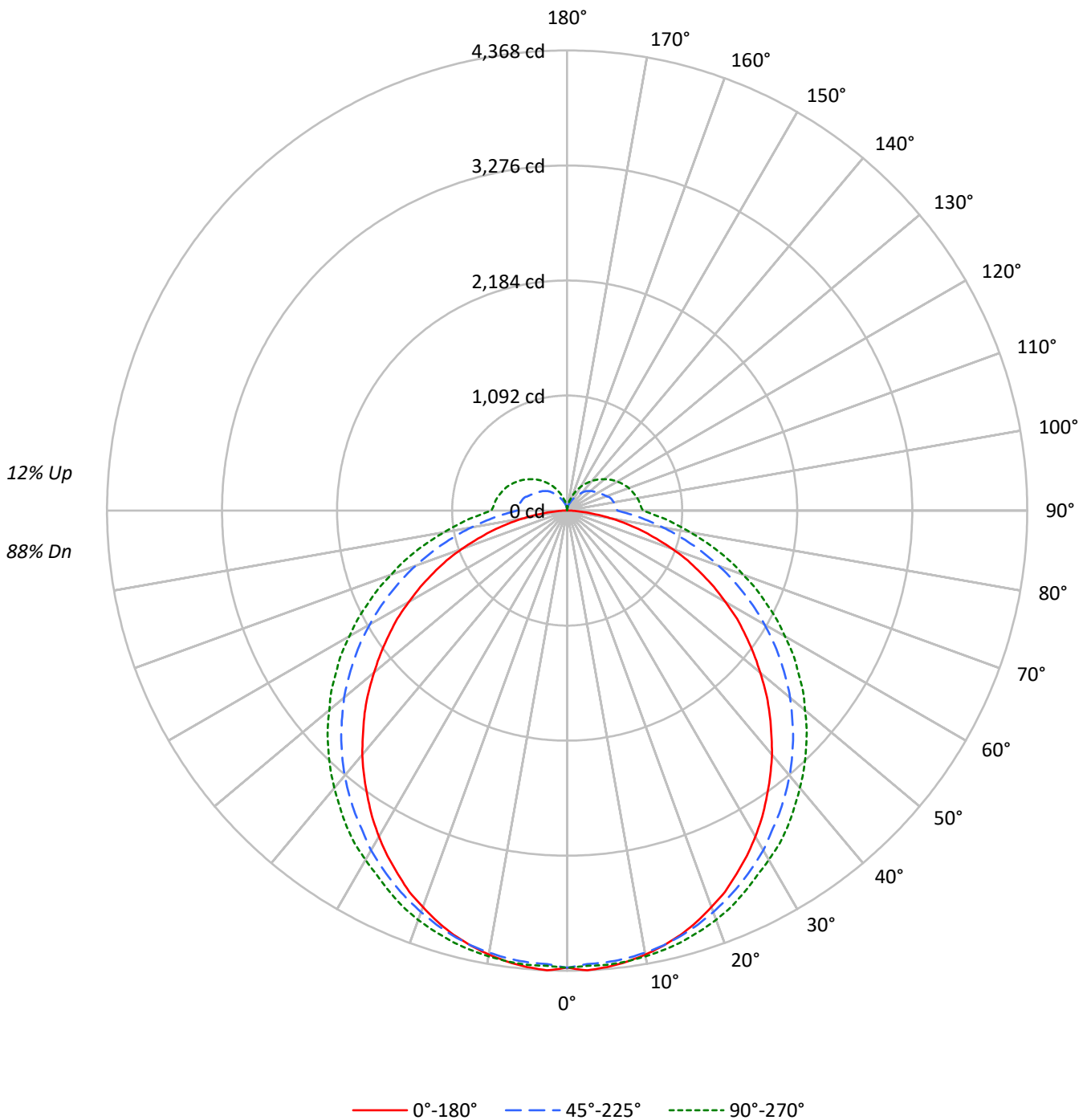
Lumens per Lamp: N/A  
Luminaire Lumens: 15621.1 lumens  
Efficiency: N/A  
Efficacy: 107.7 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.04')  
CIE Type: Semi-Direct

Input Watts (W): 145  
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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	91	91	91	88				
1	105	99	95	90	101	96	92	88	89	86	83	84	81	78	78	76	74	71				
2	95	86	79	72	91	83	76	71	77	72	67	72	68	64	68	64	61	58				
3	86	75	66	60	82	72	65	58	68	61	56	63	58	53	59	55	51	48				
4	78	66	57	50	75	64	56	49	60	53	47	56	50	45	53	48	43	41				
5	72	59	50	43	69	57	48	42	54	46	41	50	44	39	47	42	38	35				
6	66	53	44	37	64	51	43	37	48	41	35	45	39	34	43	37	33	31				
7	61	48	39	33	59	46	38	32	44	36	31	41	35	30	39	33	29	27				
8	57	43	35	29	55	42	34	29	40	33	28	38	31	27	36	30	26	24				
9	53	40	32	26	51	39	31	26	37	30	25	35	29	24	33	27	23	21				
10	50	37	29	23	48	36	28	23	34	27	22	32	26	22	31	25	21	19				

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

	0°	45°	90°
0°	23352	23352	23352
5°	23488	23008	23047
10°	23369	22799	22808
15°	23189	22547	22586
20°	22892	22243	22331
25°	22534	21934	21992
30°	22143	21624	21701
35°	21644	21250	21499
40°	21164	20943	21187
45°	20579	20587	20925
50°	19900	20210	20592
55°	19259	19741	20295
60°	18520	19243	19930
65°	17619	18673	19575
70°	16476	18050	19171
75°	14841	17374	19033
80°	12562	16982	18881
85°	9354	17423	19903



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	411.9	2.6
10°-20°	1184.9	7.6
20°-30°	1802.6	11.5
30°-40°	2191.7	14.0
40°-50°	2318.8	14.8
50°-60°	2173.6	13.9
60°-70°	1788.1	11.4
70°-80°	1237.2	7.9
80°-90°	688.0	4.4
90°-100°	453.2	2.9
100°-110°	406.4	2.6
110°-120°	336.4	2.2
120°-130°	260.1	1.7
130°-140°	184.1	1.2
140°-150°	111.1	0.7
150°-160°	53.3	0.3
160°-170°	17.5	0.1
170°-180°	2.1	0.0
0°-30°	3399.4	21.8
0°-40°	5591.1	35.8
0°-60°	10083.5	64.6
0°-90°	13796.8	88.3
90°-120°	1196.1	7.7
90°-150°	1751.3	11.2
90°-180°	1824.0	11.7
0°-180°	15621.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4339	4339	4339	4339	4339	
5°	4350	4342	4304	4339	4328	413
15°	4168	4181	4178	4235	4235	1175
25°	3804	3857	3903	3988	3991	1753
35°	3306	3395	3510	3622	3654	2069
45°	2718	2860	3034	3170	3207	2095
55°	2068	2252	2469	2624	2678	1851
65°	1399	1600	1848	2030	2086	1387
75°	728	939	1214	1407	1485	772
85°	160	399	674	861	936	185
90°	3	225	476	655	720	11
95°	3	214	463	634	696	2
105°	3	185	433	596	650	3
115°	5	160	366	530	588	4
125°	5	136	313	452	508	5
135°	5	107	262	372	417	4
145°	5	78	182	281	316	3
155°	8	54	112	179	209	4
165°	8	35	62	83	107	2
175°	8	13	19	19	11	1
180°	5	5	5	5	5	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4338.9	4338.9	4338.9	4338.9	4338.9
2.5°	4368.3	4355.0	4309.5	4338.9	4325.5
5°	4349.6	4341.6	4304.1	4338.9	4328.2
7.5°	4320.2	4317.5	4288.1	4328.2	4317.5
10°	4280.1	4285.4	4261.3	4304.1	4296.1
12.5°	4229.2	4237.3	4226.6	4274.7	4269.4
15°	4167.7	4181.1	4178.4	4234.6	4234.6
17.5°	4092.8	4111.5	4122.2	4186.4	4186.4
20°	4004.5	4034.0	4055.4	4124.9	4135.6
22.5°	3916.3	3951.0	3983.1	4055.4	4071.4
25°	3803.9	3857.4	3902.9	3988.5	3991.2
27.5°	3694.2	3753.1	3814.6	3897.5	3905.6
30°	3573.8	3648.8	3723.7	3803.9	3828.0
32.5°	3445.4	3528.4	3611.3	3718.3	3750.4
35°	3306.3	3394.6	3509.6	3622.0	3654.1
37.5°	3167.2	3266.2	3400.0	3515.0	3544.4
40°	3025.5	3135.1	3284.9	3402.6	3437.4
42.5°	2867.6	3001.4	3161.9	3287.6	3327.7
45°	2717.8	2859.6	3033.5	3169.9	3207.4
47.5°	2560.0	2709.8	2897.1	3041.5	3084.3
50°	2391.5	2562.7	2763.3	2907.8	2947.9
52.5°	2233.7	2407.5	2618.9	2768.7	2824.8
55°	2067.8	2252.4	2469.1	2624.2	2677.7
57.5°	1912.7	2089.2	2321.9	2477.1	2544.0
60°	1736.1	1931.4	2164.1	2332.6	2386.1
62.5°	1570.2	1768.2	2009.0	2182.8	2244.4
65°	1399.0	1599.7	1848.5	2030.4	2086.5
67.5°	1238.5	1436.5	1690.6	1869.9	1942.1
70°	1062.0	1270.6	1530.1	1714.7	1776.2
72.5°	888.1	1104.8	1369.6	1567.6	1637.1
75°	727.6	938.9	1214.5	1407.1	1484.6
77.5°	572.5	786.5	1064.7	1262.6	1329.5
80°	417.3	642.0	925.6	1120.8	1185.0
82.5°	275.5	510.9	791.8	987.1	1056.6
85°	160.5	398.6	674.1	861.4	936.3
87.5°	69.6	302.3	564.4	749.0	810.5
90°	2.7	224.7	476.2	655.4	719.6
92.5°	2.7	219.4	465.5	642.0	703.5
95°	2.7	214.0	462.8	634.0	695.5
97.5°	2.7	211.3	457.4	628.6	687.5
100°	2.7	203.3	449.4	617.9	676.8
102.5°	2.7	192.6	441.4	607.2	663.4
105°	2.7	184.6	433.4	596.5	650.0
107.5°	2.7	176.6	420.0	583.2	636.7
110°	2.7	168.5	398.6	569.8	623.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.7	165.9	382.5	551.1	607.2
115°	5.4	160.5	366.5	529.7	588.5
117.5°	5.4	157.8	353.1	508.3	569.8
120°	5.4	149.8	339.7	489.5	548.4
122.5°	5.4	141.8	326.4	470.8	529.7
125°	5.4	136.4	313.0	452.1	508.3
127.5°	5.4	128.4	302.3	433.4	484.2
130°	5.4	123.1	288.9	412.0	462.8
132.5°	5.4	115.0	275.5	390.6	438.7
135°	5.4	107.0	262.2	371.8	417.3
137.5°	5.4	96.3	246.1	350.4	393.2
140°	5.4	88.3	224.7	329.0	369.2
142.5°	5.4	82.9	203.3	305.0	342.4
145°	5.4	77.6	181.9	280.9	315.7
147.5°	5.4	72.2	163.2	256.8	288.9
150°	5.4	64.2	144.5	235.4	262.2
152.5°	8.0	58.9	128.4	208.7	235.4
155°	8.0	53.5	112.4	179.2	208.7
157.5°	8.0	48.2	96.3	149.8	181.9
160°	8.0	42.8	82.9	123.1	155.2
162.5°	8.0	40.1	72.2	101.7	131.1
165°	8.0	34.8	61.5	82.9	107.0
167.5°	8.0	26.8	50.8	64.2	88.3
170°	8.0	21.4	40.1	45.5	66.9
172.5°	8.0	16.1	29.4	32.1	34.8
175°	8.0	13.4	18.7	18.7	10.7
177.5°	8.0	10.7	10.7	10.7	5.4
180°	5.4	5.4	5.4	5.4	5.4

(END OF REPORT)