

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: P567697

Luminaire Tested: **8SNX-200HL-LC-UNV-L950-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567697  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2205-663-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNX-200HL-LC-UNV-L950-CD  
Description: 8FT 20000 LUMEN, SNX FIXTURE WITH 5000K, 90CRI LEDS AND LC LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

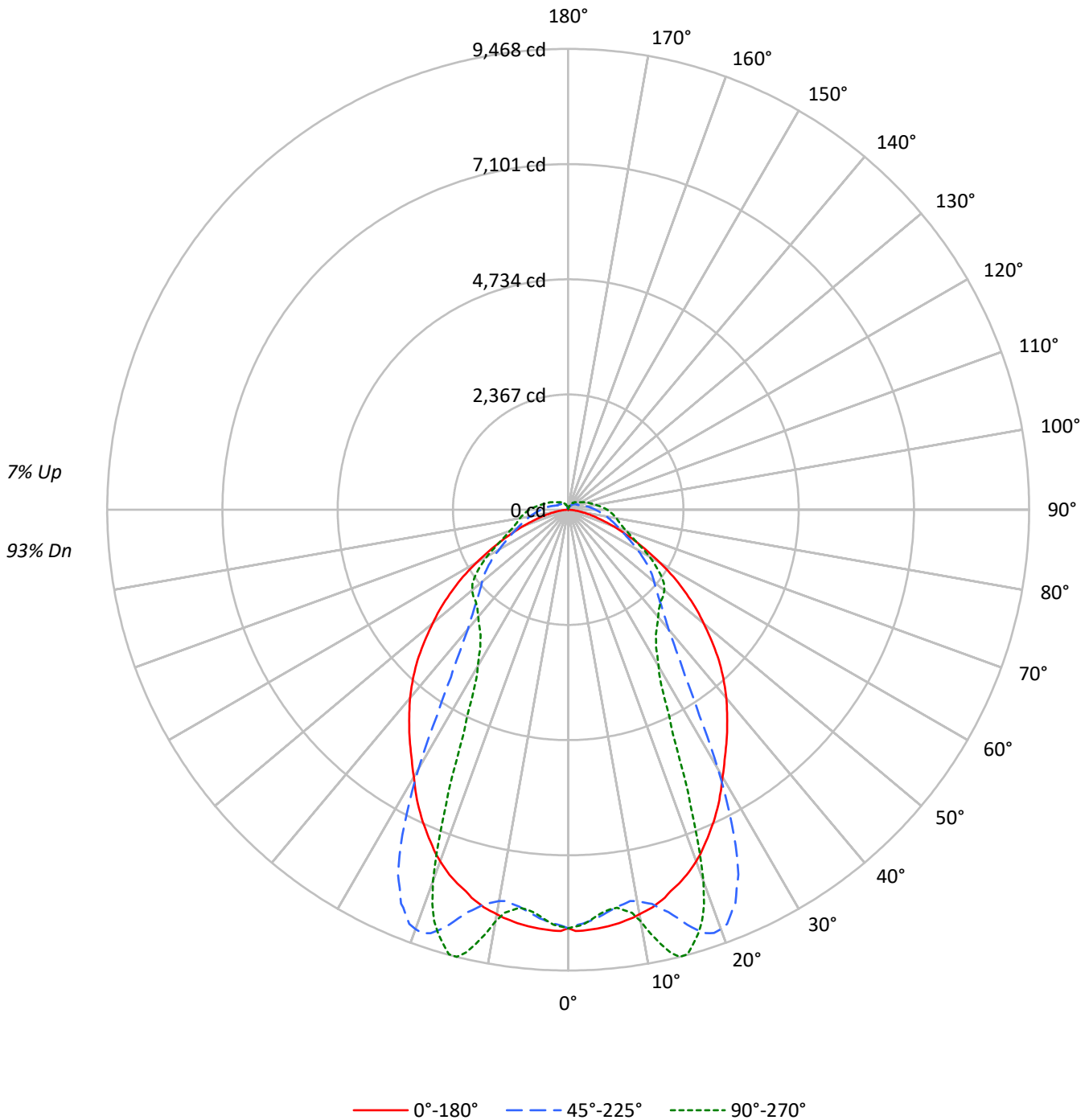
Lumens per Lamp: N/A  
Luminaire Lumens: 19110.0 lumens  
Efficiency: N/A  
Efficacy: 131.8 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 0.89 / 1.01  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')  
CIE Type: Direct

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

TEST NUMBER: P567697

CATALOG NUMBER: 8SNX-200HL-LC-UNV-L950-CD

### Luminous Intensity Polar Plot





TEST NUMBER: P567697

CATALOG NUMBER: 8SNX-200HL-LC-UNV-L950-CD

**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	89	89	87	85	85	83	81	78				
2	99	91	84	79	95	88	83	78	84	79	75	80	76	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	68	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	58	51	45	56	49	44	54	48	43	52	46	42	40				
7	67	55	46	41	65	54	46	40	51	45	40	49	43	39	48	42	38	36				
8	63	50	42	37	61	49	42	36	47	41	36	46	40	35	44	39	35	33				
9	59	46	39	34	57	46	38	33	44	37	33	42	36	32	41	36	32	30				
10	56	43	36	31	54	42	35	30	41	34	30	40	34	30	38	33	29	27				

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

	0°	45°	90°
0°	46277	46277	46277
5°	46416	43243	42359
10°	45945	41107	42005
15°	44960	42805	44717
20°	43685	44626	37425
25°	41578	40043	23012
30°	38933	29832	16654
35°	36787	20594	14049
40°	34874	15987	12948
45°	32632	13613	12245
50°	29678	12220	12021
55°	26560	11052	11122
60°	22522	9565	9620
65°	18317	8332	8029
70°	14375	7490	7069
75°	11146	6963	6592
80°	7844	6595	6526
85°	4364	6293	6479



TEST NUMBER: P567697

CATALOG NUMBER: 8SNX-200HL-LC-UNV-L950-CD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	800.1	4.2
10°-20°	2444.9	12.8
20°-30°	3292.1	17.2
30°-40°	3115.6	16.3
40°-50°	2750.0	14.4
50°-60°	2233.6	11.7
60°-70°	1519.1	7.9
70°-80°	977.4	5.1
80°-90°	650.0	3.4
90°-100°	446.7	2.3
100°-110°	299.8	1.6
110°-120°	211.5	1.1
120°-130°	151.1	0.8
130°-140°	106.6	0.6
140°-150°	66.2	0.3
150°-160°	32.3	0.2
160°-170°	11.3	0.1
170°-180°	2.0	0.0
0°-30°	6537.0	34.2
0°-40°	9652.6	50.5
0°-60°	14636.1	76.6
0°-90°	17782.6	93.1
90°-120°	958.0	5.0
90°-150°	1281.9	6.7
90°-180°	1327.0	6.9
0°-180°	19110.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8599	8599	8599	8599	8599	
5°	8607	8528	8345	8339	8298	816
15°	8114	8062	8683	9450	9459	2288
25°	7070	8383	8272	6008	5080	3244
35°	5681	7971	4202	3236	3137	3555
45°	4377	5363	2658	2626	2681	3360
55°	2915	3172	1996	2229	2314	2603
65°	1503	1710	1336	1485	1532	1509
75°	578	808	942	1056	1106	629
85°	88	344	668	846	904	115
90°	3	239	557	750	800	5
95°	3	184	470	636	680	2
105°	6	128	309	435	487	6
115°	6	111	228	324	365	7
125°	9	93	196	245	263	8
135°	12	73	160	204	216	9
145°	12	52	114	158	172	8
155°	15	32	70	105	120	7
165°	15	20	38	52	64	4
175°	18	18	18	18	15	2
180°	15	15	15	15	15	



TEST NUMBER: P567697

CATALOG NUMBER: 8SNX-200HL-LC-UNV-L950-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8598.6	8598.6	8598.6	8598.6	8598.6
1°	8656.9	8630.7	8543.1	8589.8	8566.5
2°	8654.0	8610.2	8511.0	8563.5	8534.4
3°	8639.4	8592.7	8464.3	8496.4	8452.7
4°	8624.8	8569.4	8414.7	8414.7	8365.1
5°	8607.3	8528.5	8344.7	8338.9	8298.0
6°	8586.9	8496.4	8283.4	8277.6	8254.3
7°	8557.7	8441.0	8216.3	8257.2	8239.7
8°	8522.7	8388.5	8181.3	8283.4	8309.7
9°	8490.6	8324.3	8140.5	8365.1	8385.6
10°	8438.1	8265.9	8166.7	8528.5	8589.8
11°	8394.3	8216.3	8225.1	8689.0	8872.8
12°	8350.6	8163.8	8280.5	8890.3	9115.0
13°	8277.6	8123.0	8403.1	9109.2	9339.7
14°	8213.4	8090.9	8522.7	9330.9	9468.0
15°	8114.2	8061.7	8683.2	9450.5	9459.3
16°	8047.1	8041.3	8869.9	9459.3	9295.9
17°	7971.2	8032.5	9021.6	9307.6	9115.0
18°	7886.6	8050.0	9147.1	9117.9	8896.2
19°	7790.3	8067.5	9199.6	8855.3	8569.4
20°	7685.3	8093.8	9170.4	8581.1	8120.1
21°	7580.3	8128.8	9115.0	8292.2	7530.7
22.5°	7384.8	8213.4	8852.4	7481.1	6556.1
23°	7329.3	8230.9	8791.1	7227.2	6302.3
24°	7192.2	8303.9	8511.0	6634.9	5631.2
25°	7069.7	8382.6	8271.8	6007.6	5079.8
26°	6932.5	8441.0	7910.0	5429.9	4741.3
27°	6798.3	8476.0	7498.6	4980.6	4362.0
28°	6643.7	8513.9	7052.2	4592.5	4076.1
29°	6497.8	8519.8	6611.6	4283.2	3851.4
30°	6340.2	8490.6	6147.7	4035.2	3711.4
32.5°	5995.9	8330.1	5012.7	3562.6	3361.2
35°	5680.8	7971.2	4201.5	3235.8	3136.6
37.5°	5362.8	7405.2	3632.6	3031.5	2999.4
40°	5050.6	6734.1	3203.7	2868.1	2874.0
42.5°	4720.9	6042.6	2909.0	2733.9	2760.2
45°	4376.6	5362.8	2658.1	2626.0	2681.4
47.5°	3994.4	4741.3	2459.6	2555.9	2640.5
50°	3632.6	4125.7	2305.0	2488.8	2576.4
52.5°	3288.3	3620.9	2165.0	2375.0	2477.2
55°	2914.8	3171.6	1995.7	2229.1	2313.8
57.5°	2558.9	2766.0	1817.7	2048.2	2124.1
60°	2167.9	2366.3	1636.8	1852.8	1925.7
62.5°	1814.8	2024.9	1482.2	1657.3	1715.6
65°	1502.6	1709.8	1336.3	1485.1	1531.8



TEST NUMBER: P567697

CATALOG NUMBER: 8SNX-200HL-LC-UNV-L950-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	1225.4	1447.2	1216.7	1342.2	1385.9
70°	965.8	1199.2	1111.7	1225.4	1272.1
72.5°	755.7	992.0	1024.1	1129.2	1175.8
75°	577.7	808.2	942.4	1056.2	1105.8
77.5°	428.9	659.4	866.6	997.9	1050.4
80°	283.0	525.2	799.5	945.3	1006.6
82.5°	178.0	423.1	732.4	892.8	957.0
85°	87.5	344.3	668.2	846.1	904.5
87.5°	29.2	285.9	609.8	799.5	849.1
90°	2.9	239.3	557.3	749.9	799.5
92.5°	2.9	207.2	513.5	691.5	741.1
95°	2.9	183.8	469.8	636.1	679.8
97.5°	2.9	166.3	428.9	577.7	624.4
100°	2.9	148.8	385.1	522.3	571.9
102.5°	5.8	137.1	347.2	475.6	528.1
105°	5.8	128.4	309.3	434.7	487.3
107.5°	5.8	122.5	277.2	402.6	452.2
110°	5.8	116.7	253.8	373.5	426.0
112.5°	5.8	113.8	239.3	347.2	396.8
115°	5.8	110.9	227.6	323.9	364.7
117.5°	8.8	108.0	218.8	300.5	332.6
120°	8.8	102.1	213.0	280.1	306.4
122.5°	8.8	96.3	204.2	262.6	283.0
125°	8.8	93.4	195.5	245.1	262.6
127.5°	8.8	87.5	186.7	230.5	248.0
130°	11.7	81.7	178.0	218.8	233.4
132.5°	11.7	75.9	169.2	213.0	224.7
135°	11.7	72.9	160.5	204.2	215.9
137.5°	11.7	67.1	151.7	195.5	207.2
140°	11.7	61.3	140.1	183.8	195.5
142.5°	11.7	58.4	128.4	172.1	183.8
145°	11.7	52.5	113.8	157.6	172.1
147.5°	14.6	49.6	102.1	145.9	157.6
150°	14.6	43.8	90.4	134.2	145.9
152.5°	14.6	37.9	78.8	119.6	131.3
155°	14.6	32.1	70.0	105.0	119.6
157.5°	14.6	29.2	61.3	87.5	105.0
160°	14.6	26.3	52.5	75.9	90.4
162.5°	14.6	23.3	46.7	64.2	78.8
165°	14.6	20.4	37.9	52.5	64.2
167.5°	17.5	20.4	32.1	40.8	52.5
170°	17.5	20.4	26.3	32.1	40.8
172.5°	17.5	17.5	20.4	23.3	26.3
175°	17.5	17.5	17.5	17.5	14.6
177.5°	17.5	17.5	17.5	14.6	14.6



TEST NUMBER: P567697

CATALOG NUMBER: 8SNX-200HL-LC-UNV-L950-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	14.6	14.6	14.6	14.6	14.6

(END OF REPORT)