

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: P567694

Luminaire Tested: **8SNX-200HL-LC-UNV-L930-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567694  
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-L930-CD  
Description: 8FT 20000 LUMEN, SNX FIXTURE WITH 3000K, 90CRI LEDS AND LC LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

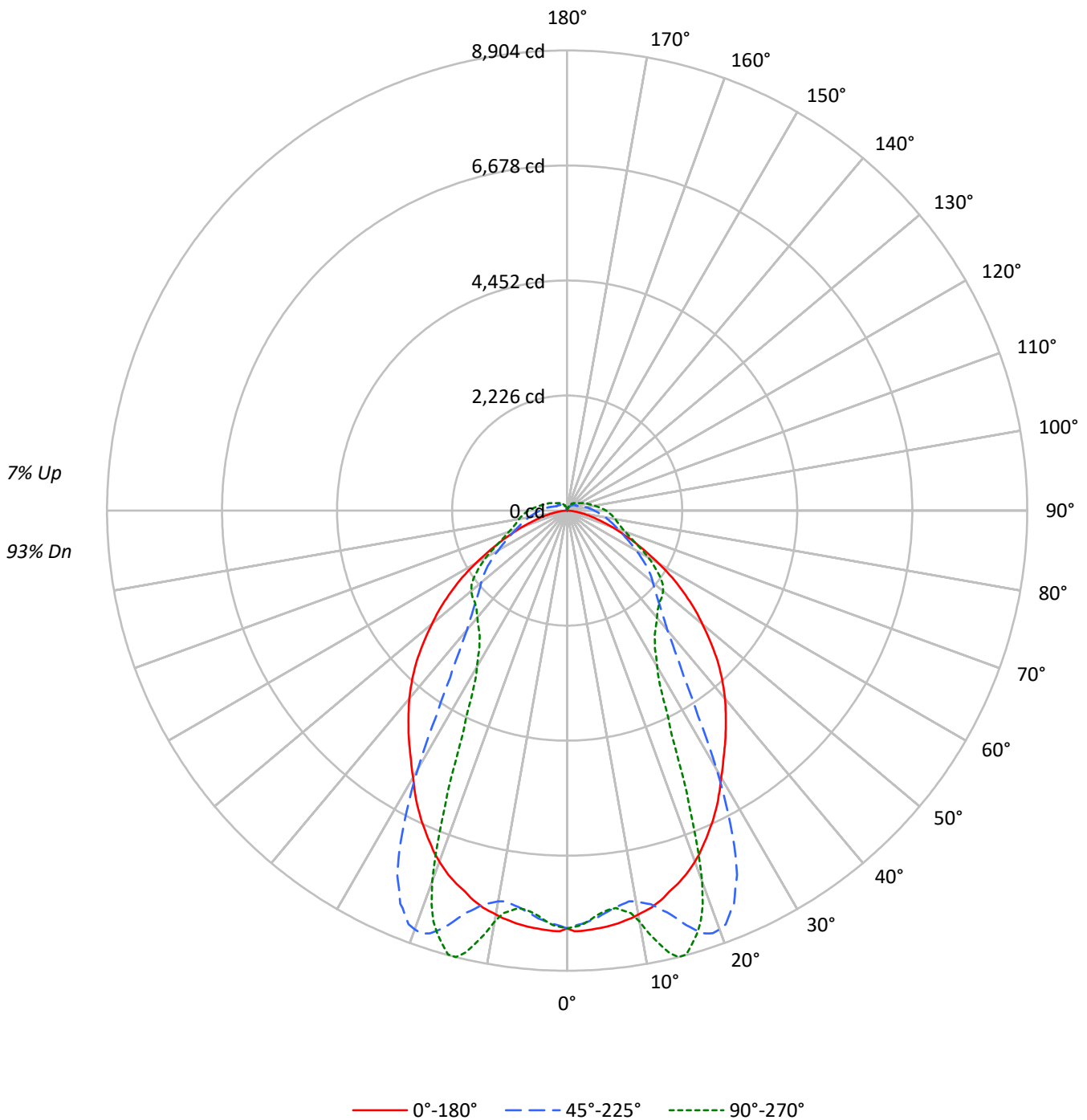
Lumens per Lamp: N/A  
Luminaire Lumens: 17971.0 lumens  
Efficiency: N/A  
Efficacy: 123.9 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 0.89 / 1.01  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')  
CIE Type: Direct

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

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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	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°	43519	43519	43519
5°	43650	40666	39835
10°	43207	38657	39501
15°	42280	40254	42052
20°	41081	41967	35195
25°	39100	37657	21640
30°	36613	28054	15662
35°	34594	19367	13212
40°	32796	15034	12177
45°	30686	12802	11515
50°	27910	11491	11304
55°	24977	10394	10459
60°	21180	8995	9046
65°	17226	7835	7550
70°	13518	7043	6648
75°	10482	6549	6199
80°	7379	6202	6137
85°	4105	5917	6093



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	752.4	4.2
10°-20°	2299.2	12.8
20°-30°	3095.8	17.2
30°-40°	2929.9	16.3
40°-50°	2586.1	14.4
50°-60°	2100.4	11.7
60°-70°	1428.5	7.9
70°-80°	919.2	5.1
80°-90°	611.2	3.4
90°-100°	420.0	2.3
100°-110°	281.9	1.6
110°-120°	198.9	1.1
120°-130°	142.1	0.8
130°-140°	100.2	0.6
140°-150°	62.2	0.3
150°-160°	30.4	0.2
160°-170°	10.6	0.1
170°-180°	1.8	0.0
0°-30°	6147.4	34.2
0°-40°	9077.3	50.5
0°-60°	13763.8	76.6
0°-90°	16722.7	93.1
90°-120°	900.9	5.0
90°-150°	1205.4	6.7
90°-180°	1248.0	6.9
0°-180°	17971.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8086	8086	8086	8086	8086	
5°	8094	8020	7847	7842	7804	768
15°	7631	7581	8166	8887	8896	2151
25°	6648	7883	7779	5650	4777	3051
35°	5342	7496	3951	3043	2950	3343
45°	4116	5043	2500	2469	2522	3160
55°	2741	2982	1877	2096	2176	2448
65°	1413	1608	1257	1397	1440	1419
75°	543	760	886	993	1040	591
85°	82	324	628	796	851	108
90°	3	225	524	705	752	5
95°	3	173	442	598	639	2
105°	6	121	291	409	458	5
115°	6	104	214	305	343	6
125°	8	88	184	230	247	8
135°	11	69	151	192	203	9
145°	11	49	107	148	162	7
155°	14	30	66	99	112	6
165°	14	19	36	49	60	4
175°	16	16	16	16	14	2
180°	14	14	14	14	14	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8086.1	8086.1	8086.1	8086.1	8086.1
1°	8140.9	8116.2	8033.9	8077.8	8055.9
2°	8138.2	8097.0	8003.7	8053.1	8025.7
3°	8124.5	8080.6	7959.8	7990.0	7948.9
4°	8110.8	8058.6	7913.2	7913.2	7866.6
5°	8094.3	8020.2	7847.4	7841.9	7803.5
6°	8075.1	7990.0	7789.7	7784.2	7762.3
7°	8047.7	7937.9	7726.6	7765.0	7748.6
8°	8014.7	7888.5	7693.7	7789.7	7814.4
9°	7984.5	7828.1	7655.3	7866.6	7885.8
10°	7935.2	7773.3	7680.0	8020.2	8077.8
11°	7894.0	7726.6	7734.9	8171.1	8344.0
12°	7852.8	7677.2	7787.0	8360.4	8571.7
13°	7784.2	7638.8	7902.2	8566.2	8783.0
14°	7723.9	7608.6	8014.7	8774.8	8903.7
15°	7630.6	7581.2	8165.6	8887.3	8895.5
16°	7567.5	7562.0	8341.2	8895.5	8741.8
17°	7496.1	7553.8	8483.9	8752.8	8571.7
18°	7416.6	7570.2	8601.9	8574.5	8365.9
19°	7326.0	7586.7	8651.3	8327.5	8058.6
20°	7227.2	7611.4	8623.9	8069.6	7636.1
21°	7128.5	7644.3	8571.7	7798.0	7081.8
22.5°	6944.6	7723.9	8324.8	7035.2	6165.4
23°	6892.5	7740.3	8267.2	6796.5	5926.7
24°	6763.5	7808.9	8003.7	6239.5	5295.6
25°	6648.3	7883.0	7778.8	5649.5	4777.0
26°	6519.3	7937.9	7438.5	5106.3	4458.7
27°	6393.1	7970.8	7051.6	4683.7	4102.0
28°	6247.7	8006.5	6631.8	4318.8	3833.1
29°	6110.5	8012.0	6217.5	4027.9	3621.9
30°	5962.3	7984.5	5781.2	3794.7	3490.2
32.5°	5638.6	7833.6	4713.9	3350.2	3160.9
35°	5342.2	7496.1	3951.1	3042.9	2949.6
37.5°	5043.2	6963.8	3416.1	2850.8	2820.7
40°	4749.6	6332.8	3012.7	2697.2	2702.7
42.5°	4439.5	5682.5	2735.6	2571.0	2595.7
45°	4115.7	5043.2	2499.6	2469.4	2521.6
47.5°	3756.3	4458.7	2313.0	2403.6	2483.2
50°	3416.1	3879.8	2167.6	2340.5	2422.8
52.5°	3092.3	3405.1	2035.9	2233.5	2329.5
55°	2741.1	2982.5	1876.8	2096.3	2175.9
57.5°	2406.3	2601.2	1709.4	1926.2	1997.5
60°	2038.7	2225.2	1539.3	1742.3	1810.9
62.5°	1706.7	1904.2	1393.9	1558.5	1613.4
65°	1413.1	1607.9	1256.7	1396.6	1440.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	1152.4	1360.9	1144.2	1262.2	1303.3
70°	908.2	1127.7	1045.4	1152.4	1196.3
72.5°	710.7	932.9	963.1	1061.9	1105.8
75°	543.3	760.0	886.3	993.3	1039.9
77.5°	403.3	620.1	814.9	938.4	987.8
80°	266.2	493.9	751.8	889.0	946.6
82.5°	167.4	397.9	688.7	839.6	900.0
85°	82.3	323.8	628.3	795.7	850.6
87.5°	27.4	268.9	573.5	751.8	798.5
90°	2.7	225.0	524.1	705.2	751.8
92.5°	2.7	194.8	482.9	650.3	696.9
95°	2.7	172.9	441.8	598.2	639.3
97.5°	2.7	156.4	403.3	543.3	587.2
100°	2.7	139.9	362.2	491.1	537.8
102.5°	5.5	129.0	326.5	447.2	496.6
105°	5.5	120.7	290.8	408.8	458.2
107.5°	5.5	115.2	260.7	378.6	425.3
110°	5.5	109.8	238.7	351.2	400.6
112.5°	5.5	107.0	225.0	326.5	373.2
115°	5.5	104.3	214.0	304.6	343.0
117.5°	8.2	101.5	205.8	282.6	312.8
120°	8.2	96.0	200.3	263.4	288.1
122.5°	8.2	90.5	192.1	246.9	266.2
125°	8.2	87.8	183.8	230.5	246.9
127.5°	8.2	82.3	175.6	216.8	233.2
130°	11.0	76.8	167.4	205.8	219.5
132.5°	11.0	71.3	159.1	200.3	211.3
135°	11.0	68.6	150.9	192.1	203.0
137.5°	11.0	63.1	142.7	183.8	194.8
140°	11.0	57.6	131.7	172.9	183.8
142.5°	11.0	54.9	120.7	161.9	172.9
145°	11.0	49.4	107.0	148.2	161.9
147.5°	13.7	46.6	96.0	137.2	148.2
150°	13.7	41.2	85.1	126.2	137.2
152.5°	13.7	35.7	74.1	112.5	123.5
155°	13.7	30.2	65.9	98.8	112.5
157.5°	13.7	27.4	57.6	82.3	98.8
160°	13.7	24.7	49.4	71.3	85.1
162.5°	13.7	22.0	43.9	60.4	74.1
165°	13.7	19.2	35.7	49.4	60.4
167.5°	16.5	19.2	30.2	38.4	49.4
170°	16.5	19.2	24.7	30.2	38.4
172.5°	16.5	16.5	19.2	22.0	24.7
175°	16.5	16.5	16.5	16.5	13.7
177.5°	16.5	16.5	16.5	13.7	13.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	13.7	13.7	13.7	13.7	13.7

(END OF REPORT)